

UIC

UNIVERSITY
OF ILLINOIS
AT CHICAGO

Undergraduate Catalog **2009**2011

Undergraduate Catalog. This publication is a record of the 2009–2011 academic years. It is for informational purposes only and does not constitute a contract. The information was current at the time of publication. Faculty assignments and programs listed are subject to change, and individual departments and units should be consulted for further information. Courses listed in this publication are subject to revision without advance notice. Courses are not necessarily offered each term or each year. Individual departments or units should be consulted for information regarding regularity of course offerings. The catalog is on the Web, see <http://www.uic.edu/ucatalog/>.

Volume 39, June 1, 2009

Office of Academic and Enrollment Services (MC 103)
University of Illinois at Chicago
601 South Morgan Street
Chicago, Illinois 60607-7128

Nondiscrimination Statement. The commitment of the University of Illinois to the most fundamental principles of academic freedom, equality of opportunity, and human dignity requires that decisions involving students and employees be based on individual merit and be free from invidious discrimination in all its forms.

The University of Illinois will not engage in discrimination or harassment against any person because of race, color, religion, sex, national origin, ancestry, age, marital status, disability, sexual orientation including gender identity, unfavorable discharge from the military or status as a protected veteran and will comply with all federal and state nondiscrimination, equal opportunity and affirmative action laws, orders, and regulations. The nondiscrimination policy applies to admissions, employment, access to and treatment in the University programs and activities.

University complaint and grievance procedures provide employees and students with the means for the resolution of complaints that allege a violation of this Statement. Members of the public should direct their inquiries or complaints to the appropriate equal opportunity office.

Policy Council

Revised May 31, 2005

Chancellor's Statement of Commitment for Persons with

Disabilities. Guided by the belief that people with disabilities are assets to the University, UIC is committed to full inclusion and participation of people with disabilities in all aspects of University life. We seek to provide an academic, social, and physical environment that makes disabled people integral to the diversity of perspectives that is vital to an academic community.

UIC supports the principles of universally accessible design, alternative communication formats, and the expression of disability community and pride. At all levels of the University, UIC promotes equal opportunity, fair treatment, and the elimination of barriers for qualified individuals with disabilities.

Office for Access and Equity. For additional information or assistance with the equal opportunity, affirmative action, and harassment policies and procedures of the University of Illinois at Chicago, please contact:

Office for Access and Equity
Title IX, ADA, and 504 Coordinator
717 Marshfield Building (MC 602)
809 South Marshfield Avenue
Chicago, Illinois 60612-7207
<http://www.uic.edu/depts/oae>
(312) 996-8670

Public Formal Grievance Procedures University of Illinois at Chicago

I. Introduction

These procedures have been implemented to address complaints of discrimination on the basis of age and/or disability in any activity, policy, rule, standard, or method of administration that is related to the operation of University's programs.

II. Eligibility

These procedures may be used by any member of the public who alleges age (Under the Age Discrimination Act) or disability (Under Title II of the Americans with Disabilities Act) discrimination on the basis of class. However, anyone who wishes to challenge a decision made about them by an agent of the University of Illinois at Chicago (UIC) in the course of their employment or enrollment at UIC must utilize the UIC Academic Grievance Procedures.

III. Definitions

A. Grievance: A written statement submitted by a Grievant identifying the activity, policy, rule, standard or method of administration he/she claims to be discriminatory on the basis of age and/or disability and explaining the manner in which that activity, policy, rule, standard or method of administration discriminates. All Grievances must be signed by the Grievant and must outline the Grievant's allegations in as much detail as possible.

B. Grievant: Any member of the public who submits a Grievance.

C. Grievance Officer: The assigned investigator of the UIC Office for Access and Equity can be contacted at the address below:
Office for Access and Equity (MC 602)
809 South Marshfield Avenue, Room 718
Chicago, IL 60612-7207
(312) 996-8670, Fax (312) 413-0055
www.uic.edu/depts/oae

D. Appeals Officer: The Associate Chancellor for Access and Equity or his/her designee.

E. Days: Any reference to "days" herein shall refer to business days (excluding weekends and federal holidays).

F. Record: The complete record of a Grievance will consist of the original Grievance and any supporting information or documentation submitted with that Grievance, the Grievance Officer's findings, the Appeal (if any) and any additional information or documentation submitted with the Appeal, the Appeal Officer's findings, and any communications and notices relative to the Grievance. The Record will be maintained for at least five (5) years following the final decision.

IV. Grievance Process

Filing of the Grievance: The Grievant must file his/her Grievance with the Grievance Officer no later than ten (10) days after he/she becomes aware of the offending activity, policy, standard or method of administration.

Investigation: The Grievance Officer shall conduct an appropriate investigation of the issues raised in the Grievance. The Grievant shall be given an opportunity to submit any relevant evidence he/she may have to support the Grievance. Within fourteen days (14) of submission of the Grievance, the Grievance Officer shall issue his/her findings. In the event the Grievance Officer finds evidence of discrimination in the activity, policy, standard or method of administration, he/she shall make recommendations for change(s) and shall coordinate the efforts for change(s) with the department/unit/college whose activity, policy, standard or method of administration is at issue. Furthermore, in the event that the individual was adversely affected by a decision made pursuant to a discriminatory process, policy, activity, standard or method of administration, the individual will be given the opportunity for the decision to be reconsidered according to the revised process, policy, etc. In those cases where the Grievance Officer finds no evidence of discrimination, he/she shall send written notice of that finding to the Grievant within that 14-day time period. Said notice shall inform the Grievant of his/her right to appeal the finding to the Appeals Officer within five (5) days of receipt of the notice.

Appeal: An appeal of the Grievance Officer's findings must be in writing and must state the basis for the appeal, providing any additional evidence or information that may support the Grievant's claim of discrimination. The Appeals Officer shall review the Grievance Officer's record and any information/evidence submitted with the Appeal and shall issue findings within ten (10) days of receipt of the appeal. In the event the Appeals Officer finds evidence of discrimination in the activity, policy, standard or method of administration, he/she shall make recommendations for changes. In those cases where the Appeals Officer finds no evidence of discrimination, he/she shall send written notice of that finding to the Grievant within that 10-day time period. There shall be no further levels of review or appeal beyond the Appeals Officer.

Deviation from the Process: Upon proof of extenuating circumstances, the Chancellor and only the Chancellor may approve a deviation from these procedures (e.g., extension of a deadline).

Effective date of policy is September 1, 2005.

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How to Use the Catalog

Navigating UIC

Understanding how to navigate UIC will assist students with finding information in the catalog and getting important questions answered on campus.

The University is made up of colleges, schools, and departments. All UIC students are members of the University community. Students also belong to the college and, if applicable, the department or school offering the students' degree program. For example, a student majoring in Biological Sciences is a member of the UIC community, the College of Liberal Arts and Sciences, and the Department of Biological Sciences. The *Contents* section provides a list of the colleges, departments, schools, and the degree programs offered to undergraduate students.

Students are responsible for adhering to all policies and degree requirements set by the University, their college, and department or school. If there are any differences between University and college requirements or policies, students should always follow the policies and requirements set by their major college.

Using the Catalog

This is the University of Illinois at Chicago *2009–2011 Undergraduate Catalog*. The catalog is an academic planning tool for undergraduate students. The catalog is divided into three major sections:

- University Information
- College and Department Information
- Course Descriptions

Each section of the catalog provides information necessary for the academic planning process. A brief description of each section and its use in the planning process is provided below.

The Undergraduate Catalog is provided online in PDF and html format at <http://www.uic.edu/ucatalog>. The PDF version of the catalog is updated every other year, but the html version catalog is updated each semester to reflect changes to degree requirements and academic policies.

The PDF version of the catalog serves as a record of the requirements and policies in effect at the time of students' initial enrollment at UIC. Students may want to print their college and department sections of the catalog as a tool for tracking progress toward the degree.

University Information

The *University Information* section details policies, resources, and services that impact students in all UIC undergraduate degree programs. Topics include University degree requirements, grading, advising, enrollment, registration, and graduation. These topics help students define degree requirements, academic standards, and track their progress toward degree completion. It is the students' responsibility to know and understand all of the rules and regulations published in this section of the catalog.

College and Department Information

The *College and Department Information* section describes all of UIC's undergraduate degree programs and their requirements in detail. Students use this section of the catalog to ensure that they understand and meet all requirements for their degree program.

Course Descriptions

The *Course Descriptions* section lists all the undergraduate courses at UIC. The course descriptions are arranged alphabetically by subject area. Each course description includes a rubric (subject area abbreviation), course number, course title, semester hours, prerequisites (if any), and course content. A list of rubrics can be found at the beginning of the *Course Descriptions* section.

The catalog includes all undergraduate courses at UIC. However, not all courses are offered during a given semester. Students will find current course offerings in the *Schedule of Classes*, which is published online <http://osssorawebprod2.admin.uillinois.edu/webforstudent/UICScheduleofClasses.asp> before registration begins.

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Welcome to UIC

The University

Mission

UIC provides the broadest access to the highest levels of intellectual excellence. UIC's mission is:

- To create knowledge that transforms our views of the world and, through sharing and application, transforms the world.
- To provide a wide range of students with the educational opportunity only a leading research university can offer.
- To address the challenges and opportunities facing not only Chicago but all Great Cities of the 21st century, as expressed by our Great Cities Commitment.
- To foster scholarship and practices that reflect and respond to the increasing diversity of the U.S. in a rapidly globalizing world.
- To train professionals in a wide range of public service disciplines, serving Illinois as the principal educator of health science professionals and as a major healthcare provider to underserved communities.

Overview

The University of Illinois at Chicago is a major research university offering the unique cultural, business, and entertainment opportunities synonymous with a world-class city. UIC ranks alongside University of Chicago and Northwestern University as one of the top 50 research-funded institutions in the nation. In many ways, UIC discovers what other institutions teach. UIC is comprised of 15 academic colleges including the UIC College of Medicine, which educates one in six Illinois physicians and is the largest medical school in the nation.

UIC boasts one of the most diverse student bodies in the country, offering a cultural experience second to none with 15,000 undergraduate and 9,000 graduate and professional students.

On our 240-acre, eco-friendly campus, students will find 100 buildings, 5,000 trees, geothermal energy plants and two state of the art fitness centers. And whether living in residence hall, near campus or commuting, students enjoy a busy social life. With nationally ranked athletic teams, numerous social events, sororities and fraternities, and nearby entertainment venues, there are a lot of opportunities to have fun.

The Faculty

The University takes great pride in its faculty. Many of its members have gained national and international reputations as scholars and researchers, artists, writers, clinicians, and educators.

The quality of UIC faculty members is measured by the recognition they receive through publications, national awards, and the level of grant support for their research and teaching. For example, faculty members have earned awards, fellowships, and grant support from such sources as the American Association for the Advancement of Science, the John Simon Guggenheim Foundation, the National Academy of Science, the National Endowment for the Humanities, the National Institutes of Health, the National Science Foundation, the Sloan Foundation, the U.S. Department of Defense, the U.S. Department of Energy, the U.S. Department of Education, and many other philanthropic organizations and state and federal agencies.

One of the most important measures of the strength of a university's research is the amount of federal funding it receives. A comparison with the U.S. universities in the AAU, a group of outstanding research-intensive universities that UIC frequently uses as a benchmark, shows that between 1996 and 2004 UIC's federally funded research grew faster than any major research university in the country. In that same period, UIC's federal research expenditures grew at an average of 16% per year. By comparison, Vanderbilt University, the fastest growing AAU institution during this time, had an average increase of 13.4% per year. UIC consistently ranks among the top 50 out of more than 637 national universities in federal research funding, with 2008 federal research expenditures of \$197 M. UIC is also among a select group of 96 institutions to be classified in the category Research Universities (very high research activity) by the Carnegie Foundation.

UIC faculty researchers are actively engaged in their disciplines and constantly working to advance their areas of study and students benefit directly as the latest trends and insights are brought into the classroom. Research faculty guide advanced undergraduate and graduate students and provide them with research opportunities that may inspire them to enter research careers themselves. Publication of books and articles is another key measure of faculty strength and UIC's faculty is highly productive, with many holding editorships of prestigious journals. Their scholarship and practices reflect and respond to the increasing diversity of the United States as they create new knowledge both within the traditional disciplines and in interdisciplinary and multidisciplinary endeavors.

The Student Body

The nearly 25,000 students who study at the University of Illinois at Chicago come from the city of Chicago and its suburbs, and from all 50 states, three United States territories, and 100 foreign countries. The UIC student body is rich in its diversity and ranks as the fifth most diverse school in the country. Our 15,000 undergraduate students have high goals: eighty-six percent aspire to post-baccalaureate degrees, ranging from master's and doctoral level study to law, medicine, and divinity degrees. These ambitious students have reported to us that they come to UIC because of its location, its diversity, its strong academic reputation, and because students who graduate from UIC get jobs and get into graduate school. In the last five years, UIC students received 21 Fulbright, 10 Goldwater, and three Gates-Cambridge Scholarships.

UIC's undergraduate students study abroad in such locations as Hong Kong, Melbourne, Paris, and Santiago. They conduct research in the tropical forests of Amazonia and the Congo. They work in laboratories researching Parkinson's disease, sickle-cell anemia, and autism. They work on public policy, issues of social justice, and school-based mental health interventions. They have volunteered with Habitat for Humanity, have created Thanksgiving bags for the elderly, sent cards to soldiers overseas, hosted blood drives, worked in soup kitchens, cleaned up Lake Michigan beaches, raised money for breast cancer and HIV/AIDS, worked with children in the pediatric unit at UIC Hospital, and donated hundreds and hundreds of shoes to our annual shoe drive.

They relax in one of our on-campus sports and recreation facilities, play water polo, table tennis, soccer, rugby, or volleyball. They dance, play paintball, fish, fence, and cycle, or join one of our 233 student organizations. A growing number, including half of the freshman class, call UIC residence halls home.

UIC

Welcome to UIC

The Campus

Located a mile west of Chicago's Loop, the University of Illinois at Chicago features 110 buildings on a 244-acre campus, comprised of east and west sides (see maps at the back of the catalog). Undergraduate education takes place principally on the east side, whereas professional programs in the health sciences form the programmatic core of the west side. UIC offers students a learning environment of contemporary classrooms, lecture centers, laboratories, libraries, on-campus residence halls, and the latest sport and fitness facilities. Students have access to two of the largest student unions in the country, as well as sports and entertainment at the UIC Pavilion. Nearly 25 percent of the UIC undergraduate student body resides in on-campus housing, and the campus is also readily accessible to students commuting from residential neighborhoods.

Accreditation

The University of Illinois at Chicago is accredited by the Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools (NCA), 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, (312) 263-0456, <http://www.ncahigherlearningcommission.org>. The Higher Learning Commission is recognized by the U.S. Department of Education and the Council on Higher Education Accreditation (CHEA). In 2007, NCA voted to continue accreditation of UIC for the maximum period of 10 years. The next comprehensive evaluation of UIC is scheduled for 2016–2017. Verification of accreditation status is available in the Office of the Chancellor (312) 413-3350.

The undergraduate academic degree programs (and including the Doctor of Pharmacy degree) described in this catalog have been approved by the Illinois Board of Higher Education, 431 East Adams, Second Floor, Springfield, Illinois 62701-1418, (217) 782-2551.

In addition to institutional accreditation, certain individual programs are accredited by the following organizations.

Art and Design

BFA programs in Graphic Design and Industrial Design

National Association of Schools of Art and Design (NASAD)
11250 Roger Bacon Drive, Suite 21
Reston, Virginia 20190
(703) 437-0700

<http://nasad.arts-accredit.org/index.jsp>

Business

BS programs in Accounting, Economics, Entrepreneurship, Finance, Information and Decision Sciences, Management, and Marketing

AACSB International—The Association to Advance Collegiate Schools of Business
777 South Harbour Island Boulevard, Suite 750
Tampa, Florida 33602
(813) 769-6500
<http://www.aacsb.edu/>

Engineering

BS programs in Bioengineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of ABET.

The BS program in Computer Science is accredited by the Computing Accreditation Commission of ABET.

Accreditation Board for Engineering and Technology, Inc. (ABET)

111 Market Place, Suite 1050
Baltimore, Maryland 21202
(410) 347-7700
<http://www.abet.org/>

Health Information Management

BS in Health Information Management

Commission on Accreditation of Health Informatics and Information Management Education (CAHIIM)
233 North Michigan Avenue, Suite 2150
Chicago, Illinois 60601
(312) 233-1131
<http://www.cahiim.org/>

Nutrition

BS in Nutrition

Commission on Accreditation for Dietetics Education (CADE)
American Dietetic Association
120 South Riverside Plaza, Suite 2000
Chicago, Illinois 60606-6995
(800) 877-1600
<http://www.eatright.org/cps/rde/xchg/ada/hs.xsl/CADE.html>

Nursing

BS in Nursing

Commission on Collegiate Nursing Education (CCNE)
One Dupont Circle, NW, Suite 530
Washington, D.C. 20036
(202) 887-6791
<http://www.aacn.nche.edu/Accreditation/>

Pharmacy

Doctor of Pharmacy

Accreditation Council for Pharmacy Education (ACPE)
20 North Clark Street, Suite 2500
Chicago, Illinois 60602
(312) 664-3575
<http://www.acpe-accredit.org/>

State Teacher Certification

The curricula for the preparation of elementary and secondary school teachers as listed in this catalog have been approved by the Illinois Board of Higher Education, the North Central Association of Colleges and Schools, the Illinois State Board of Education, and the University.

Admissions

Executive Director of Admissions, Thomas E. Glenn

Mailing Address:

Office of Admissions and Records (MC 018)

Box 5220

Chicago, Illinois 60680-5220

Office Location: 1100 Student Services Building (SSB)
(312) 996-4350

<http://www.uic.edu/depts/oar/home>

Visiting Campus

UIC encourages prospective students to visit the campus. A preadmission information session is offered weekdays (excluding campus holidays), and is followed by an optional campus tour. In addition, preadmission information sessions and campus tours are available on selected Saturdays throughout the year.

UIC Preview Days give prospective students an opportunity to tour campus, visit a residence hall, obtain information about campus housing and financial aid, and attend information sessions with academic advisors from each of UIC's undergraduate programs.

For dates and reservations, prospective students should consult the Office of Admissions and Records (OAR) Web site <http://www.uic.edu/depts/oar/visit/>.

Refer to the *Campus Map* and *Travel Directions and Visitor Parking* at the back of the catalog for instructions on how to reach the UIC campus or visit the UIC Web site <http://www.uic.edu> for more information.

Admission Requirements and Application Procedures

All students who wish to take courses for credit at UIC, whether as degree or nondegree candidates, must submit an application available online <http://www.uic.edu/depts/oar/applyonline/undergrad>, supporting documents, and the required nonrefundable application fee (or application fee waiver) within specified deadlines. All credentials presented for admission become the permanent property of the University, cannot be subsequently released to the student or to another individual or institution, and cannot be held for reconsideration of admission to subsequent terms.

All students should carefully read the application instructions.

For information about registration as a visitor/auditor, see the *Registering and Enrolling in Courses at UIC* section of the catalog.

English Language Competency Requirement for All Applicants

Minimum requirements for competence in English apply to all applicants. An applicant may establish competence in English by certifying that the following requirements have been fulfilled in a country where English is the official/native language and in a school where English is the primary language of instruction: (1) graduation from a secondary school with three units, or the equivalent, of English; or (2) successful completion of a minimum of two academic years of full-time study at the secondary school or college level immediately prior to the proposed date of enrollment in the University.

Applicants who do not meet the above requirement may provide sufficient evidence of competence in English by achieving a minimum score of 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21

on the TOEFL iBT (Internet-based Test of English as a Foreign Language), which is administered by the Educational Testing Service, <http://www.ets.org/toefl>.

Higher scores may be required for some programs and colleges. This requirement may be waived by the executive director of the Office of Admissions and the dean of the college concerned if the applicant can provide evidence of competence in English that will clearly justify a waiver.

Undergraduate Applications and Credentials Deadlines

Students are strongly encouraged to apply using the online application <http://www.uic.edu/depts/oar/applyonline/undergrad> within the filing period listed in the chart below. While applications submitted before the filing period will be accepted, processing for the term will begin at the start of the filing period. The application deadline is the last day of the filing period for the term for which the student wishes to enter. Applications and credentials must be postmarked by this deadline to receive an admission review.

Most upper-division and health sciences programs have special deadline dates that may be earlier than those on the chart. Refer to the OAR Web site <http://www.uic.edu/depts/oar/apply/deadlines.html> or the undergraduate application for current dates.

Filling Period for Applications and Credentials

| Term in which applicant wishes to enter | International Applicants, Filing Period | Domestic/Immigrant ^b Applicants, Filing Period |
|---|---|--|
| Spring ^a | May 1–July 15 | July 1–October 15 ^c |
| Fall | October 1–January 15 | September 1–January 15 ^c (Freshman applicants) |
| | | September 1–March 31 ^c (Transfer applicants) |

^a Beginning freshman applications are not accepted for spring terms.

^b Immigrant applicants (permanent residents, temporary residents, refugees-parolees, or conditional entrants) must provide proof of immigration status by submitting a notarized Certification of Immigration Status form (available online <http://www.uic.edu/depts/oar/forms> or from the Office of Admissions) or a copy of both sides of their Alien Registration Receipt Card, Temporary Resident Card, or other document.

^c It is recommended that domestic and immigrant applicants with credits from foreign institutions observe the international application/credential filing periods.

Beginning Freshman Applicant

A beginning freshman applicant is either (1) one who applies for admission while attending high school, regardless of the amount of college credit earned or (2) one who has graduated from high school, but has never attended a college or university.

A beginning freshman application is considered complete and ready for evaluation when official high school transcripts and official test scores are on file in the Office of Admissions along with the completed application, personal statement and application fee (or application fee waiver).

Beginning Freshman Admission Requirements

A beginning freshman applicant at UIC must meet the following requirements:

1. Be at least 16 years of age. A 15-year-old applicant who meets all other admission requirements may petition for admission.
2. Submit evidence of graduation from an accredited high school or submit passing scores on the General Educational Development (GED) test.

3. Complete the American College Test (ACT) or the College Board Scholastic Aptitude Test (SAT) or Scholastic Assessment Test-I (SAT-I).
4. Satisfy the minimum high school subject requirements. Students who do not meet these subject requirements, but meet all other requirements, will have their applications reviewed. For information on specific subject requirements, consult the undergraduate application online <http://www.uic.edu/depts/oar/applyonline/undergrad>.

Homeschooled students must satisfy all of the above requirements. A homeschool transcript is acceptable if it includes: (1) a list of all subjects/ courses attempted by year; (2) grades or examination results received (both passing and failing); (3) maximum and minimum grades obtainable; and (4) number of units earned.

International applicants must satisfy additional requirements to be considered for admission. Information pertaining to the additional requirements is available in the following section titled *International Applicant* and in the application instructions available online <http://www.uic.edu/depts/oar/apply/>.

Admission is competitive, and preference is given to those applicants selected to have the best potential for academic success at UIC.

Transfer Applicant

A transfer applicant is one who (1) has completed a minimum of 24 semester or 36 quarter hours of transferable college classroom credit by the time of application and (2) does not meet the definition of a beginning freshman or a readmission applicant. While 24 semester or 36 quarter hours are the minimum number of hours required, most curricula require additional credit hours and the completion of some specific core first-year courses. For specific requirements in each curriculum at the time of application and the time of enrollment, consult the undergraduate application online <http://www.uic.edu/depts/oar/applyonline/undergrad>.

Illinois Articulation Initiative

The Illinois Articulation Initiative (IAI) is a statewide agreement that allows transfer of the completed IAI General Education Core Curriculum (GECC) between participating Illinois institutions. Successful completion of the GECC at any participating college or university in Illinois assures students that general education requirements for the baccalaureate degree have been satisfied. The University of Illinois at Chicago (UIC) is a participating university.

IAI policies, including GECC requirements, course codes and course descriptions, are presented on the Web site <http://www.iTransfer.org> and UIC's implementation requirements are published below. Students who transfer out of UIC will be held to the requirements of their transfer institution.

Eligibility

- Only transfer students entering UIC for the first time are eligible for IAI consideration. IAI policies do not apply to students who are readmitted to UIC or students who take courses elsewhere after enrolling at UIC.
- New transfer students who enter UIC with the GECC completed will be considered to have completed UIC's General Education requirements as defined in the *General Education* section of the catalog. However, additional General Education requirements that have been approved for specific UIC colleges may still be required.

- New transfer students with 30 hours of accepted transfer work who have not completed the GECC may consult with a college advisor to review options for completing General Education requirements. Depending on the number of remaining courses required a student may be allowed the option of completing either UIC's General Education program or the GECC.

Note: The GECC option is made available only when completion of the GECC requirements calls for at least two fewer courses than would be needed to complete UIC's General Education requirements.

For students who complete the GECC prior to UIC enrollment

New transfer students who enter UIC with the GECC completed must meet with a college advisor to ensure that UIC General Education requirements are marked as fulfilled in the University's degree audit system. To assist with first-semester course selection at UIC, students should bring a copy of a community college or participating Illinois university transcript which includes a statement showing completion of the IAI GECC to the Transfer Orientation Program.

For students eligible to complete the GECC at UIC

- All accepted transfer courses completed prior to enrollment at UIC which are identified on the IAI Web site (<http://www.iTransfer.org>) with a corresponding GECC course code will be used to satisfy GECC requirements.
- GECC may be completed by enrolling in approved IAI courses at UIC.
- UIC policies on Credit by Examination (ACT/ SAT, AP, IB, and CLEP) in the *Academic Standing* section of the catalog will be used to determine credit used to satisfy GECC requirements. UIC will not award transfer course credit based on another institution's evaluation of test results.
- If a student satisfactorily fulfills the course requirements of a GECC area but earns fewer hours than required, the remaining hours for that area may be waived by the college dean. However, students must complete a minimum of 12 courses, a minimum of 37 hours, and the minimum number of courses required in each area of the GECC.
- Transfer credit from a nonparticipating IAI institution is not acceptable to meet GECC requirements.

UIC's GECC Courses

UIC courses approved for the IAI General Education Core Curriculum are listed officially on the IAI Web site <http://www.iTransfer.org>.

Acceptance of Traditional Transfer Credit

1. Admission of transfer students to UIC is based only on the transfer course work that is similar in nature, content, and level to that offered by UIC. Such courses are normally referred to as transfer work. Other course work completed, such as technical courses similar in content and level to courses taught at the University, will be used in evaluation for admission only upon the request of the dean of the college to which the student seeks admission.

2. Transfer credit, as defined above, will be accepted at full value for admission purposes on transfer to the University if earned at institutions of higher education as defined below:
 - a. Colleges and universities that offer degree programs comparable to programs offered by UIC and are (1) members of, or hold Candidate for Accreditation status from, the North Central Association of Colleges and Schools or other regional accrediting associations, or (2) accredited by another accrediting agency that is a member of the Commission on Recognition of Postsecondary Accreditation.
 - b. Illinois public community colleges that are neither members of nor holders of Candidate for Accreditation status from the North Central Association of Colleges and Schools, but that are approved and recognized by the Illinois Community College Board (ICCB) for a period of time not to exceed five years from the date on which the college registers its first class after achieving ICCB recognition.
3. Certain colleges and universities do not meet the specifications in 2 above but have been assigned a status by the University Committee on Admissions that permits credit to be accepted on a provisional basis for admission purposes on transfer to UIC. Transfer credit, as defined in 1 above, from such colleges and universities is accepted on a deferred basis to be validated by satisfactory completion of additional work in residence. Validation through satisfactory work in residence may be accomplished by earning at UIC or another fully accredited^a college or university, at least a 2.00/4.00 or 3.00/5.00 grade point average (higher if prescribed by the curriculum the student wishes to enter) in the first 12 to 30 semester hours completed following transfer.
4. In all cases, the precise amount of transfer credit applicable toward a particular degree will be determined by the University, college, and department concerned after the student has been admitted.

^a Colleges and universities that meet one or more of the specifications listed in 2 above.

Transfer Student Admission Requirements

1. A transfer applicant must submit evidence of having achieved a minimum transfer grade point average of 2.00/4.00 or 3.00/5.00 on the basis of all transferable work attempted and submit evidence of having completed a minimum of 24 semester or 36 quarter hours of transferable college classroom credit at the time of application. However, most colleges and departments require a higher minimum grade point average, additional credit hours, and the completion of some specific core, first-year courses. For specific information on the requirements for each college, consult the undergraduate application online <http://www.uic.edu/depts/oar/applyonline/undergrad>.
2. For admission purposes only, transfer grades for all baccalaureate-oriented course work attempted and accepted are used in computing the transfer student's average. However, a particular UIC college or school may not accept all courses toward degree requirements.
3. A transfer applicant who was previously dismissed from a collegiate institution for disciplinary or academic reasons must submit a petition to the executive director of the Office of Admissions,

who will forward the petition to the appropriate committee.

4. When a course is repeated the grade point average is computed using both grades and all hours for the course. However, credit for the course is only awarded once.
5. Incomplete grades more than one year old are considered as failing grades in computing the grade point average.
6. Only course work that is similar in nature, content, and level to that offered by UIC is acceptable.
7. Technical, vocational, developmental, and remedial course work generally is not transferable.
8. Courses from other postsecondary institutions must have been completed at the appropriate level to be transferable.
9. Credit for nontraditional experiential prior learning is not transferable.
10. Applicants enrolled in another college at the time they plan to apply to UIC should request a transcript from their current institution including a list of the courses they are taking at the beginning of the last term they are enrolled. (Fall applicants currently attending a quarter-based school should apply at the beginning of their winter term.) A final transcript should be sent to UIC as soon as possible after the final term is completed.

International applicants must satisfy additional requirements to be considered for admission. Information pertaining to the additional requirements is available in the following section titled International Applicant and in the application instructions available online <http://www.uic.edu/depts/oar/apply/>.

Admission is competitive, and preference is given to those applicants selected to have the best potential for academic success at UIC.

Intercampus Transfer Applicant

Undergraduate intercampus transfers among the University of Illinois at Chicago, at Springfield, and at Urbana-Champaign may be admitted to another campus provided (1) they meet the requirements of the program, (2) there is space available in the program, and (3) they submit the application and credentials by the application deadline.

Students who are currently enrolled and who are applying to one of the other campuses for the immediately succeeding semester do not pay an application fee. "Immediately succeeding semester" may mean either the spring semester if the applicant completed the fall semester at the other campus, or it may mean the summer or fall term, provided the applicant completed the spring semester at the other campus.

Readmission Applicant

Readmission applicants are former UIC students who were registered as degree-seeking undergraduates and who left the University for two or more semesters in succession (summer session excluded). Readmission applicants are considered for readmission on the basis of their status at the time they left the University, any college work they have completed elsewhere since their last attendance at the University, and the availability of space in the chosen program. Degree-seeking readmission applicants do not pay the application fee.

Students who interrupt their UIC enrollment by two or more semesters in succession (summer session excluded) must reapply. See *Eligibility to Register: University Policy on Continuing Student Status* in the *Registering and Enrolling in Courses at UIC* section of the catalog.

Former UIC students who left the University on academic dismissal status, regardless of whether they have attended another collegiate institution in the interval, must submit a petition with an application when they apply for readmission. Admission is granted upon approval of the dean of the college concerned and of the executive director of the Office of Admissions.

Former students who left the University on probation, or who left UIC on clear status but have attended another collegiate institution where they have earned an academic GPA below 2.00/4.00, may be readmitted to the University only with a petition approved by the dean of the college concerned.

A former UIC student who was dismissed for disciplinary reasons must submit a petition to the executive director of the Office of Admissions, who will forward it to the appropriate committee.

Applicants for readmission to any of the health professional programs should contact the program or department for instructions.

Nondegree Applicant

Students who do not presently wish to enroll in a degree program at UIC, but who wish to take courses for credit may apply for nondegree status.

During the fall and spring semesters, acceptance of a student in nondegree status is at the discretion of the dean of the college to which the student is applying. Nondegree applicants for fall and spring semesters must meet all regular admission requirements and complete a current Undergraduate Application, available online <http://www.uic.edu/depts/oar/applyonline/undergrad>.

Nondegree students are not eligible for most financial aid. Priority in admission and registration is given to degree students.

Summer Session Only Applicant

A student who wishes to take undergraduate courses at UIC during the *summer only* and who does not intend to continue at UIC in the fall may apply as a Summer Session Only student. Typical Summer Session Only students include students enrolled in degree programs at other colleges or universities who are in the Chicago area for the summer. Individuals who have already completed undergraduate degrees but need to take undergraduate-level courses to fill deficiencies in preparation for advanced study may also apply as Summer Session Only students.

Prospective Summer Session Only students must complete a Summer Session Only Application, available online <http://www.uic.edu/depts/oar/applyonline/summersession>.

Students who wish to attend UIC in the summer and continue in the fall or spring semester need to submit a Summer Session Only application for the summer and also complete a regular Undergraduate Application, along with providing the required credentials, for the later term. Each application must be submitted by the appropriate deadline for the specific term of admission.

International Applicant

An international applicant is a person who is a citizen or permanent resident of a country or political area other than the United States and who has a residence outside the United States to which he or she expects to return, and either is, or proposes to be, a temporary alien in the United States for educational purposes.

The University is authorized under federal law to enroll academically qualified nonimmigrant alien students.

International students who will need to apply for F-1 or J-1 immigration status must register as full-time, degree-seeking students and are not eligible for financial aid.

English Language Competency Requirements

See the earlier section on *English Language Competency Requirement for All Applicants*.

Financial Resources Requirement

In order for international students to enter or remain in the United States for educational purposes, evidence of adequate financial resources must be provided before visa documents can be issued. Acceptable documentation of adequate financial resources includes a UIC Declaration and Certification of Finances available online <http://www.uic.edu/depts/oar/apply/> or U.S. Citizenship and Immigration Services (USCIS) Affidavit of Support. Either of these documents must be accompanied by a certified letter from a bank showing evidence of adequate funds in U.S. dollars. Applicants unable to provide satisfactory evidence of adequate finances will not be granted admission. The University of Illinois at Chicago does not offer scholarships or other types of financial assistance to international undergraduate students.

Alternative Admission Programs

Guaranteed Professional Program Admissions

The Guaranteed Professional Program Admissions (GPPA) is one of UIC's programs for academically talented students. Each fall, approximately 100 motivated and highly qualified entering freshmen can be admitted to UIC with admission guaranteed to one of the following professional or graduate programs if undergraduate course and performance criteria are met:

- Applied Health Sciences
 - Biomedical Visualization
 - Health Information Management
 - Human Nutrition
 - Kinesiology
 - Occupational Therapy
 - Physical Therapy
- Architecture
- Art and Design
 - Graphic Design
 - Industrial Design
- Business
 - Accounting
 - Management Information Systems
 - Real Estate
- Dentistry
- Education
- Engineering
- Law^a
- Medicine
- Nursing
- Pharmacy
- Public Health
- Urban and Public Affairs

^a Offered pursuant to an agreement between UIC and The John Marshall Law School, which is a private institution and is not part of UIC.

Admission to GPPA is competitive, based on each professional program's requirements for ACT or SAT score, high school percentile rank, preparatory course work, and other criteria.

A minimum ACT score of 28 or an SAT-I score of 1240 and a high school rank in the top 15% are required for application. To be considered for GPPA, students must apply to one of the UIC undergraduate colleges and to GPPA in the professional college of their choice.

Applications are accepted from September 1 through January 15 with the exception of College of Medicine applications. Applications to the College of Medicine are accepted from September 1 through December 15. All decisions will be announced in late March or early April.

To request the GPPA application packet or more information, consult the Web site <http://www.gppa.uic.edu>.

Application questions can be directed to (312) 996-8365. Program information questions can be directed to (312) 355-3407.

Talented Student Program for Illinois High School Seniors

Upon completion of the junior year in high school, superior students in Illinois who meet University requirements may attend classes for college credit at UIC. To qualify for this program, seniors should rank in the upper 10 percent of their class, have a minimum ACT score of 25 (or SAT score of 1120), and be at least 16 years old.

Grades and course credits are recorded on the student's permanent UIC record and appear on any official transcript issued to or for the student. If the student enters the University after graduation from high school, the courses are credited toward University graduation if they are applicable to the chosen degree program.

For application and information, consult the Web site <http://www.uic.edu/depts/oar/applyonline/summersession/special-highschool.html> or contact the Office of Special Scholarship Programs (MC 115), University of Illinois at Chicago, 703 South Morgan Street, Chicago, Illinois 60607; (312) 355-2477.

Early Admission Applicant

An early admission applicant is a superior high school student who wishes to enter UIC at the completion of the junior year in high school. The program is designed to permit the particularly able and mature student to begin an academic career at the university level prior to high school graduation, provided that all the other requirements for a beginning freshman applicant are met.

To qualify, students should rank in the upper 10 percent of their high school class, have a minimum ACT score of 25 (or SAT score of 1120), and have a superior high school record.

Each case is considered on an individual basis by the executive director of the Office of Admissions and the dean of the college concerned. Inquiries may be directed to the Office of Admissions, (312) 996-4350.

Students wishing to apply for early admission should submit the following credentials to the Office of Admissions (MC 018), University of Illinois at Chicago, Box 5220, Chicago, Illinois 60680-5220 by the deadline for fall admission consideration.

1. Application for admission, available online <http://www.uic.edu/depts/oar/applyonline/undergrad> and the nonrefundable application fee.
2. Official copy of high school transcript, reflecting the most recent class rank and all courses completed or in progress.
3. A letter of recommendation from the high school principal.
4. ACT or SAT I: Reasoning Test scores.

5. A letter from the parents or guardians stating why they believe the student should be granted early admission.
6. A recommendation from the Counseling Center at UIC indicating chances for scholastic success.
7. A written statement from the applicant explaining the objective in seeking early admission.
8. The successful completion of any University subject examinations that may be necessary in order to meet admission requirements.

Admission by Special Action

A student not otherwise eligible for admission may be admitted, with the approval of the executive director of the Office of Admissions and the dean of the chosen college, provided evidence is submitted that clearly establishes ability to do satisfactory work in the curriculum or the courses in which enrollment is desired. A letter of petition should be submitted with the application.

Alternative Sources of Credit

Credit for Military Service

Completion of not less than six months of extended active duty in any branch of the armed forces of the United States entitles an applicant to 4 semester hours in basic military science. These four hours will not be used in determining grade point average for transfer admission. Some colleges may limit or not allow credit in basic military science to count toward the degree. Refer to the sections for the individual colleges in this catalog for details.

Credit is also allowed for those United States Armed Forces Institute (USAFI) courses for which the American Council on Education recommends credit at the baccalaureate level, provided the student has passed the appropriate USAFI end-of-course test or examination.

Credit for service school courses successfully completed and for other courses taken while the student was in service may be allowed after the applicant is approved for admission. It is the enrolled student's responsibility to contact the Office of Admissions for an evaluation of service courses for which transcripts are presented.

College Level Examination Program (CLEP) Credits

See *Credit by Examination* in the *Academic Standing* section of the catalog.

Credit through ACT or SAT

See *Credit by Examination* in the *Academic Standing* section of the catalog.

Credit through Advanced Placement Program (AP)

See *Credit by Examination* in the *Academic Standing* section of the catalog.

Credit through the International Baccalaureate Program (IB)

See *Credit by Examination* in the *Academic Standing* section of the catalog.

Registering and Enrolling in Courses at UIC

Office of Registraton and Records
1200 Student Services Building (SSB)
(312) 996-4385
<http://www.uic.edu/depts/oar>

Accessing and Using my.UIC

UIC's comprehensive online resource for students can be found at <http://my.UIC.edu> or by going to the UIC home page <http://www.uic.edu> and scrolling down to *Quick Links*. Students can use *my.UIC* to access important information and the computer applications necessary for completing many essential tasks related to being a student at UIC. For example, students can use *my.UIC* to access the *Student Self-Service Login* to register for courses, view their course schedule, or change personal information. Students should see the *Help* section of *my.UIC* for information on establishing the necessary User IDs (NetID and EnterpriseID) for these resources and computer applications.

- **Registration:** Explore *Schedule of Classes*, Class Scheduling Tools, Search for a Class, Registration Policy and Procedures, *Student Self-Service Preview*, *Catalog*, and College & Department Registration Announcements.
- **Records:** Intent to Graduate, Transcript Requests, Certifications, Preview Graduation Information, and Compute your GPA.
- **Personal Information:** Medical Immunization Records, and Address Changes.
- **Financial Matters:** Tuition and Fees, University Student Financial Services and Cashier Operations, and Student Financial Aid Information.
- **Degree Audit:** *DARSWeb for Student* and *DARSWeb for Student* Instructions.
- **Help:** *Student Self-Service Preview*, EnterpriseID information, and Contacts.
- **Student Self-Service Login:** Log into *Student Self-Service* to register for classes, view tuition and fee balance, access online course information, section information, review and change address, emergency contact information, view course schedule, grades, academic history, submit an intent to graduate, holds and other personal information.

E-Mail Is the Official Method of Campus Communication

All students are responsible for maintaining a valid University e-mail address and/or forwarding University e-mails to their preferred non-University e-mail address. If you choose to forward e-mails or change your service, you are still responsible for this information. [OFFICIAL] campus announcements will be sent out via mass e-mail to students for all official information students must be aware of. Colleges and/or departments maintain separate e-mail listservs, which may be used to convey specific information to their own students.

Crucial messages, such as the availability of your tuition E-Bill or your registration Time Ticket, will be sent directly to your UIC e-mail account. You can create an e-mail account after activating the Network ID (NetID) that was assigned to you upon admission. For additional information on creating a UIC e-mail account or forwarding your UIC e-mail, visit the Academic Computing and

Communications Center (ACCC) E-mail Web Page <http://www.uic.edu/depts/accc/index.html/EMAIL.htm>.

Disability Resource Center

Director, Roxana Stupp
1200 West Harrison Street
Room 1190 SSB (MC 321)
Chicago, IL 60607
(312) 413-2183 Voice
(312) 413-0123 TTY/Videophone
(312) 413-7781 FAX
E-mail: drc@uic.edu
Web site: <http://drc.uic.edu>

The Disability Resource Center (DRC) provides accommodations and services to students with permanent and temporary disabilities. To be eligible for accommodations through the DRC, students must be admitted or attending the University of Illinois at Chicago and have a documented disability condition as defined by the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973.

Students with disabilities are required to provide documentation of their disability and how it may limit their participation at UIC. Students may receive accommodations to ensure access to the classroom and learning environment, campus housing or transportation as deemed appropriate. Students requesting accommodations in campus housing should submit their housing application available for all students, as early as possible, even before they register with the DRC.

Ideally, students should contact the Disability Resource Center preferably six (6) weeks before the start of the semester, or immediately following diagnosis of a disability, to register and discuss accommodation needs.

Incoming freshmen and transfer students may want to contact our office sooner if accommodations will be needed for placement tests. Please visit our web site at <http://drc.uic.edu> for additional information or contact us directly by phone or email.

New Students

After Admission

After a student is admitted to the University, the Office of Admissions and Records sends an admission packet, including a *Letter of Admission* and an *Intent to Enroll* form to the student. Enclosed in the packet are the instructions for placement tests, registration, medical immunizations, and housing. Admission is only valid for the term stated and may not be used for subsequent terms. Students must return the *Intent to Enroll* form to insure their place in the entering class. The Transfer Credit Detail itemizes transfer courses accepted on admission or readmission and also lists credit granted based on Advanced Placement, International Baccalaureate, CLEP, and ACT or SAT test scores. Once admitted, transfer students return their *Intent to Enroll* forms to UIC Admissions; their Transfer Credit Details will be sent to them within approximately three weeks.

Registering for the First Time

To enroll in courses at UIC for the first time, students complete the following steps:

- Take the Pre-enrollment Evaluation Program (PEP) tests (not always required of readmitted or continuing students);
- Participate in academic advising during New Student Orientation and get approval to register; and
- Register for approved courses.

Pre-Enrollment Evaluation Program

Required of students registering at UIC for the first time, these placement tests help in determining educational choices and career plans as well as placement in certain subjects. They are taken after an applicant receives notice that admission has been granted for the desired term. Instructions on how to sign up for placement tests are included in the notice of admission. It is recommended that students sign up for the earliest possible test dates in order to qualify for earlier registration dates.

The University does not accept placement test results from other institutions because the UIC tests are specifically designed for UIC courses. Students should be aware that they must arrange to come to the University to take placement tests before they can participate in orientation, academic advising, and registration. Testing is available during late registration, but it is not recommended and a late charge is levied.

The Pre-enrollment Evaluation Program includes four tests: mathematics, writing, chemistry, and foreign language.

Initial Academic Advising and New Student Orientation

Students who have been granted admission for the fall semester are invited (after taking PEP tests) by their college to orientation and advising on campus during the summer months. At that time they are advised by representatives of their college who assist them in selecting courses for the fall semester.

Students admitted for the spring semester will receive academic advising as part of a spring orientation day. Class registration will follow academic advising.

Register for Approved Courses

The Office of Registration and Records is responsible for handling course registration and official academic records, called transcripts.

Students register for classes through *Student Self-Service*. Students should consult the *Schedule of Classes* <http://ossorawebprod2.admin.uillinois.edu/webforstudent/uicscheduleofclasses.asp> for complete instructions on using the system to register for courses.

All Students

Change of Course Schedule—Dropping Courses

The course self-drop deadline (using UIC *Student Self-Service*), for all students, is the second Friday of fall and spring, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2.

Starting with the third week and ending with the tenth week of the term (second Wednesday of Summer Session 1 and weeks 2 through 5 for Summer Session 2), undergraduate students may drop individual courses in their college offices, up to the maximum permitted limit of four over the course of their undergraduate degree programs. Undergraduate and graduate students who drop during this time period will receive a W grade on their academic records. **There is no refund for course drops made after the second Friday of fall and spring, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2.**

International students in F-1 or J-1 status are required to be registered full time (12 semester hours) every semester. International students who wish to register for less than 12 semester hours should speak with an advisor in the Office of International Services (OIS) prior to dropping

courses or under-enrolling. In order to maintain immigration status, permission must be granted by OIS in advance of dropping below full time. OIS is located in 2160 Student Services Building (SSB) and may be contacted at (312) 996-3121 or ois@uic.edu.

Students should consult their college section of the catalog for information on how to drop courses with permission of the college.

Change of College or Degree Program for Current Students

Any continuing student who wishes to transfer from one college or major to another within the University shall do the following:

1. Initiate a request for change of college, major, or curriculum by contacting the appropriate college office for approval, in accordance with college deadlines. For intercollege transfers, contact the college to which transfer is sought. For change of major/curriculum within a college, contact the college in which currently enrolled.
2. The college will evaluate the request and notify the student regarding acceptance. Certain colleges may require a supplementary application process. Approved changes will be processed in the college office. After the start of Advance Registration, approved changes will be forwarded to the Office of Registration and Records for processing. Note: Any changes received after classes have begun will be effective for the next academic term.
3. Any student who has been inactive for two consecutive semesters and thereby has lost continuing status must request a change of college or major as part of an application for readmission.

Course Numbering

001–099

Courses numbered 001–099 do not carry academic credit but meet special program requirements. These courses carry semester hours that do not count toward the total hours required for graduation, but do count in the calculation of tuition and toward full- or part-time enrollment status and financial aid eligibility. Grades for these courses are not calculated in the grade point average.

100–199

Courses numbered 100–199 are open to all undergraduate students. These are introductory courses generally appropriate for the first-year college student.

200–299

Courses numbered 200–299 are intended for sophomores, juniors, and seniors who have completed the 100-level prerequisites.

300–399

Courses numbered 300–399 are generally intended for juniors and seniors. Sophomores may register for them if they have completed 200-level prerequisites.

400–499

Courses numbered 400–499 are intended for advanced undergraduate and graduate students. Students will note that some 400-level courses listed in the catalog and *Schedule of Classes* have sections (CRNs) with differential credit (i.e., one CRN is offered for 3 semester hours for undergraduate students and one CRN is offered for 4 semester hours for graduate students). Undergraduate students who enroll in a 400-level course should enroll in the designated, lower-credit-level CRN. Graduate students should enroll in the designated, higher-credit-level CRN.

Course Prerequisites

Prerequisites, if any, are included in the course description. Students are responsible for completing all prerequisites prior to enrolling in a course. For some courses, the student registration system will prevent students from registering if prerequisites have not been completed. Regardless of whether or not the registration system prevents a student from enrolling in a course, the University will not be responsible for a student's failure to adhere to those prerequisites.

Eligibility to Register: University Policy on Continuing Student Status

For the purpose of determining eligibility to register, continuing students are defined as students whose enrollment at UIC has not been interrupted for two or more semesters in succession (summer session excluded). Students who lose continuing status are considered "former students." Should they wish to reenroll after having lost continuing status, reapplication and readmission to the University are required.

International students must contact the Office of International Services if they do not intend to enroll for any term.

1. Currently enrolled students are eligible to register and should receive online Time Tickets (or appointments) for advance registration.
2. Students who are continuing but not currently enrolled are eligible to register beginning with the open registration period.
3. Readmitted students will receive registration information along with their notices of readmission.
4. When any one of the following conditions is present, a student is not eligible to register:
 - a. Loss of continuing status (i.e., nonattendance for two or more semesters in succession, excluding students on approved leave of absence).
 - b. Dismissed by the student's college or the University for poor scholarship or disciplinary reasons.
 - c. Financial indebtedness to the University.
 - d. Failure to satisfy the requirements of the Illinois Proof of Immunity Law.
 - e. Any other academic or administrative hold that precludes registration.

Leave of Absence

In extenuating circumstances, a college may grant a leave of absence extending a student's continuing status, provided that a request for leave is submitted prior to the tenth day of instruction that begins the period of leave. Upon approval, the college will notify the Office of Records and Registration indicating the reasons for and the duration of the leave.

Special Enrollment Categories—Visitors/Auditors

Enrolled students or others wishing to attend meetings of a course without earning academic credit may register as visitors (auditors).

Because the courses offered by the University of Illinois at Chicago are primarily intended for students registering for academic credit, auditors may register only during the add/drop and late registration period. The privilege of attending classes as an auditor is granted on a space-available basis on or after the first day of instruction. Audit registra-

tion requires the approval of the course instructor and the dean of the college offering the course, and must be completed no later than the last day of late registration. The instructor or dean may refuse to permit an audit registration in the course.

Degree-seeking students considering the audit option should discuss it with their academic advisers to determine if it is the best choice, or if another grading option, such as credit/no credit, may be more appropriate.

Courses taken for audit do not apply toward any academic degree and do not count as part of a student's full-time or part-time course load for purposes of financial aid, loan deferments, athletic eligibility, or fulfillment of the enrollment residence requirement.

Requirements/Conditions. The following requirements and conditions apply:

- Not all courses may be audited. Each college/department may designate courses that do not accept auditors.
- Students may not audit a course requiring the use of laboratories, studios, or computers; courses offered on an individual instruction basis; military science courses; or physical education and other activity courses. Students who audit a course do not have the privilege of participating in class activities in any way.
- In courses in which auditing is permitted, the instructor will set the attendance conditions of the audit.
- When enrollment limits are a concern, students taking a class for credit will be given preference over auditors.
- Individual college policies may, in some cases, prohibit a student from enrolling for credit after a course has already been taken on an audit basis.
- A student may not receive academic credit for an audited course nor be eligible to take a proficiency examination.
- A student who is auditing a course but who wishes to take the course for credit must change his or her registration by the end of the late registration period.
- There is no limit to the number of courses that may be audited. However, for currently enrolled students, audited courses may be counted toward the maximum number of semester hours allowed for the term.
- Students who have been dismissed from the University for academic or disciplinary reasons or are otherwise ineligible to attend classes, are not eligible to audit classes.
- A student attending as an auditor only is not considered a continuing student.

Procedure. Students planning to audit a course must complete the following procedure:

- A registration for audit may not be completed until the first day of classes.
- Persons who wish to audit must obtain a *Visitor's Permit* form from the Office of Registration and Records during the Late Registration/Add-Drop period. They must secure the written approval of the course instructor and the dean of the college offering the course, submit the approved *Visitor's Permit* to Registration and Records, and pay the required audit fee no later than the tenth day of instruction (first Wednesday of Summer Session 1 or first Friday of Summer Session 2).

- Upon request of the student's college, an audited course will be indicated on a currently enrolled student's academic record with a grade of AU.
- If a currently enrolled student wants an audited course to appear on a transcript, the student should make such a request in the Office of Registration and Records. The student should submit a note, signed by the instructor, verifying that the student met the regular attendance policy of the course.
- Auditors will be assessed a \$15 audit fee for the privilege of visiting/auditing a class. Exchange change or cashier's check made out to the University of Illinois is required for payment. Students who are assessed tuition at the full-time rate and those who are exempt from tuition do not pay the audit fee.

Transcripts

Students may request copies of their official transcripts from the Office of Registration and Records by mail or online <http://www.uic.edu/depts/oar/rr/transcripts.shtml>. Or go to the UIC homepage of <http://www.uic.edu> and scroll down to Quick Links. Students who are indebted to the University or who have been admitted to the University pending the receipt of credentials are not eligible to receive transcripts until these obligations are cleared. For mailed-in requests, students should allow at least two weeks from the date of their request for their transcripts to be processed. Online requests are typically mailed or ready for pickup the next business day. There is a charge for each transcript.

Withdrawal from the University

Withdrawal from the University is governed by specific regulations that must be observed to protect the student's academic standing. Failure to do so results in a grade of F (failure) in each course in which the student is registered. Undergraduate students should initiate an official withdrawal from the University in their college office in person or by written request. Telephone requests to withdraw must be verified by the student in writing.

Students who withdraw from all courses for which they are enrolled are considered withdrawn from the University. Students who withdraw from the University are eligible to register for a subsequent term unless they lose their continuing student status. Students lose their continuing student status when they have not attended UIC for two or more semesters in succession (excluding summer session or an approved leave of absence). Students whose enrollment has been interrupted for two or more semesters in succession must submit an application for readmission to the University.

A student who has been charged with an offense that may result in disciplinary action may not officially withdraw from the University until the hearing of the case has been conducted by the appropriate disciplinary committee.

Withdrawal to Enter U.S. Military Service

Policies and Procedures Regarding Undergraduate Students Leaving for and Returning from Military Service

Students who have been called to military service or who anticipate being called are entitled to certain rights as defined by the University Senate and outlined below. Students withdrawing for military service can do so quickly and easily and will know what steps are required to reenroll at the end of their deployment. Students begin the process of withdrawing from or returning to UIC with the two offices described below that have designated staff to

work with students leaving for military service and returning veterans.

Office of Registration and Records
Student Services Building Room 1200
1200 West Harrison Street
(312) 996-1825

The Veteran's Registration Coordinator in the Office of Registration and Records coordinates the formal withdrawal from the university and classes, tuition and fee refunds, and health insurance options; coordinates with academic departments on issues of grades and graduation; and activates a student's enrollment upon return to the university. All students withdrawing from or returning to UIC from military service must meet with the Veteran's Registration Coordinator. Students should bring their activation orders or other official notification with them to their appointment.

Office of Student Financial Aid
Student Services Building Room 1800
1200 West Harrison Street
(312) 413-2697

The Veteran's Affairs Office Coordinator within the Office of Student Financial Aid assists veterans receiving educational benefits from the Department of Veterans Affairs. All students receiving benefits at the time of deployment must meet with the Veteran's Affairs Office Coordinator before deployment. All returning veterans must meet with this office for counseling and assistance in processing applications for VA benefits.

Undergraduate Students Withdrawing from UIC to Enter U.S. Military Service

1. Are entitled to withdraw without penalty and without academic credit, and receive a full refund of tuition and fees.

OR

2. If withdrawal for deployment occurs upon completion of the 12th week of the semester, undergraduate students are entitled without examination to receive full credit for each course in which they attained a standing of C or better at the time of withdrawal. Students will receive the grade attained in each course at the time of withdrawal. Grades reported below C are recorded as W (withdrawn). Students using this option are not eligible for a full refund of tuition and fees. Nursing students and other students in majors that have licensing, credentialing, or accreditation requirements are not eligible for this option.
3. Policy Governing Graduating Seniors

A student in his/her last semester of study leading to graduation, who qualifies for full credit upon completion of the twelfth week, or later, of the final semester, may be recommended for the degree at the discretion of the student's college and major department provided that the following conditions are met:

- a. The student has been in residence at UIC for at least two full semesters (not including the term of withdrawal);
- b. The student has met all requirements for graduation (including minimum scholarship requirements), except for those requirements that the student would fulfill by completing the courses for which he/she is registered at the time of withdrawal during the last term.

A senior in good standing who withdraws from the University at any time to enter military service as a result of state or national emergency, and who does so enter within ten instructional days and who lacks no more than one-sixteenth of the total semester hours required for the degree, may, at the discretion of the student's college and on approval of the major department concerned, be recommended for such degree. No such student who has acquired hours under the twelfth weeks rule adopted by the Senate, however, shall be considered eligible for this privilege.

A "senior in good standing" is meant as one whose progress during University registration has been satisfactory to the administrators of the student's college. Among grounds for dissatisfaction might be negligence in meeting requirements or scholastic deficiencies.

"At any time" shall be interpreted to mean "during any semester in residence or the interim between semesters." It is not intended for students who, after these rules are operative, stay out of college for any semester, and who thus do not make continuous progress to their degrees.

4. Campus housing residents are entitled a prorated refund of room and board charges.

Undergraduate Students Returning to UIC after U.S. Military Service

1. Returning students must meet with the Veteran's Registration Coordinator in the Office of Records and Registration and the Veteran's Affairs Office Coordinator within the Office of Student Financial Aid.
2. Undergraduate students who have attended classes and withdraw from the University to enter military service are entitled to a leave of absence for a period of up to five years, and may return to the University without having to apply for readmission. Withdrawal for military service stops the clock for Illinois residents with a four-year-tuition guarantee. Returning veterans will continue paying their four-year guaranteed tuition rate until they have reached a maximum of four years at the guaranteed tuition rate.
3. Students admitted to UIC as first time students, who did not attend any classes before deployment, are entitled to defer their admission for up to 24 months after their return from military service and may return to the University without having to apply for readmission.
4. All students returning from military service will have priority registration. A returning veteran must check in with the Veteran's Registration Coordinator in the Office of Registration and Records in order to be granted priority registration.
5. All students returning from military service will have priority for on-campus housing including the option of temporary campus housing while making a decision about where to live.

(Military withdrawal and reentry policies updated 8/14/08 by VPAES.)

Additional Policies Affecting Registration and Enrollment

Admission or Readmission Denied Because of Misconduct

The University reserves the right either to deny admission or readmission to any person because of previous misconduct that may substantially affect the interest of the University, or to admit or readmit such a person on an appropriate disciplinary status. The admission or readmission of such a person will not be approved or denied until his or her case has been heard by the appropriate disciplinary committee. This applies to persons not now enrolled in the University who might apply for admission or readmission. A favorable action of the appropriate disciplinary committee does not abrogate the right of any dean or director to deny admission or readmission on the basis of scholarship.

Falsification of Documents

Any student who for purposes of fraud or misrepresentation, falsifies, forges, defaces, alters, or mutilates in any manner an official University document or representation thereof may be subject to discipline. Some examples of official documents are identification cards, student schedules, medical and immunization records, grade reports, receipts, transcripts, library documents, and petitions for change in state residence status.

Any applicant who knowingly withholds information or gives false information on an application for admission or readmission may become ineligible for admission to the University or may be subject to discipline.

Medical Immunization Requirements

Illinois state law mandates that all students born on or after January 1, 1957, entering a postsecondary institution are required to present documented proof of immunity against measles, mumps, rubella, tetanus, and diphtheria as a prerequisite to registration. The Medical Immunization Form, required for student completion, is mailed with the student's acceptance letter. In addition, students may request that their Illinois high school health record, the Certificate of Health Examination, be forwarded to the University at the time that the high school transmits the official high school academic record.

Those students who are not properly immunized and have not submitted a written statement of medical or religious exemption are required to undergo immunization within the first term of enrollment. Failure to provide the required proof of immunity shall prevent a student from enrolling in a subsequent term. *Students registering for on-campus course(s) (includes previous terms) or are registered for more than 5 credit hours (includes previous terms) are required to fulfill immunization requirements. Prior to registering for on-campus courses or for more than five credit hours, students must submit the required proof of immunity which can be found online at the Office of Admissions and Records Web site.*

Questions pertaining to acceptable proof of immunity may be directed to the Office of Medical Immunization Records, 1300 Student Services Building or (312) 413-0464. The mailing address is Office of Medical Immunization Records, Box 5220 (MC 018), Chicago, Illinois 60680-5220.

Social Security Number (Student Identification Number)

In accordance with the Privacy Act of 1974, applicants for admission and enrolled students are advised that the requested disclosure of the social security number is voluntary. The applicant or student has the right to refuse disclosure of this number or request its removal from records without penalty. If no social security number is entered or submitted as part of the application process, then a special 9-digit Temporary Control Number (TCN) is assigned. The 9-digit number is used by new students to initially establish accounts for registration purposes. Thereafter, registration services are accessible utilizing the student's EnterpriseID and the student University Identification Number (UIN).

The social security number is needed to help identify student financial records. It is required as an identifier for grants, loans, and other financial aid programs. It may also be needed to verify the accuracy of admission-related records and permanent academic records.

Any inaccuracies in social security number (or assigned student number) should be reported immediately to the Office of Registration and Records.

The social security number will not be disclosed to individuals or agencies outside the University of Illinois except in accordance with the UIC Student Records Policy and applicable law.

Use of Animals in Instruction

The University of Illinois at Chicago offers certain courses in which live, euthanized, or preserved vertebrate animals are used as part of course requirements. Such courses are identified in the *Schedule of Classes* with the note "Animals used in instruction."

Students who have ethical concerns about the use of animals in teaching have the responsibility to contact the instructor, prior to enrollment in any course in which animals may be used as part of course instruction, to determine whether class exercises involving animals are optional or required, and what alternatives, if any, are available. If no alternatives are available, the refusal to participate in required activities involving animals may result in a failing grade in the course.

Alternative Sources of Credit for Continuing Students

Guided Individual Study

Guided Individual Study courses taken through the University of Illinois may be accepted for credit. After matriculation, students may count toward the degree as many as 60 semester hours of credit earned in Guided Individual Study. Students currently in residence on a University of Illinois campus must have the approval of the dean of their college to enroll in any courses through Guided Individual Study.

The final 30 semester hours of work toward a degree must be earned in enrollment residence at the University of Illinois, unless students have previously completed three full years of resident work here. Credit earned through Guided Individual Study neither interrupts nor counts toward fulfillment of the enrollment residence requirement for graduation.

Students, including those in high school, who wish to pursue study through this program should write directly to Guided Individual Study, University of Illinois at Urbana-Champaign, 302 East John Street, Suite 1406, Champaign, Illinois 61820, call (800) 252-1360, or go online <http://www.continuinged.uiuc.edu/outreach/gis.cfm>.

Demonstrating Writing Proficiency for a Waiver of English 160 or English 161

The First-Year Writing Program in the Department of English is responsible for administering waivers of English 160 or English 161 to eligible students. Students should consult the First-Year Writing Program for more information on the writing portfolios described below.

English 160 requirement is waived for students who:

- Have an ACT English subscore of 27 or more or an SAT Verbal score of 610 or more; students meeting this criterion receive three hours of passing credit for English 160 and a waiver of the course.
- Received a grade of 4 or 5 on the AP English-Language and Composition test; students meeting this criterion receive three hours of passing credit for English 160.
- Qualify for and submit a writing portfolio that is approved by the First-Year Writing Program at UIC (criteria described online <http://www.uic.edu/depts/engl/programs/1styearwriting/>); students meeting this criterion receive a waiver of the English 160 course work requirement.

English 161 requirement is waived for students who:

- Qualify for and submit a writing portfolio that is approved by the First-Year Writing Program at UIC (criteria described online <http://www.uic.edu/depts/engl/programs/1styearwriting/>); students meeting this criterion receive a waiver of the English 161 course work requirement.

Proficiency Examinations for Enrolled Students

See *Credit by Examination* in the *Academic Standing* section of the catalog.

College Level Examination Program (CLEP) Credit for Current UIC Students

See *Credit by Examination* in the *Academic Standing* section of the catalog.

Rights Under The Family Educational Rights and Privacy Act

Annually, the University of Illinois at Chicago informs students of the Family Educational Rights and Privacy Act (FERPA). FERPA affords students certain rights with respect to their education records. They are as follows:

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 Office of Registration and Records, dean, department head, or other appropriate records custodian, 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 will 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 are inaccurate or misleading.* Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write to the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

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 in an administrative, supervisory, academic, research, or support staff position (including law enforcement personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the University of Illinois Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University of Illinois at Chicago will disclose education records without consent to officials of another school in which a student seeks or intends to enroll.

4. *The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University of Illinois at Chicago to comply with the requirements of FERPA.*

The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, S.W.
Washington, D.C. 20202-4605

Directory Information

FERPA prohibits access by non-University personnel to information about individual students without the student's written authorization, except that which is considered public information. The University of Illinois at Chicago hereby designates the following as public or "directory information." Such information may be disclosed by the University for any purpose, at its discretion.

1. Student name(s)
2. University Identification Number (UIN)
3. Student address(es), electronic address (E-mail), and telephone number(s)
4. Class/level (graduate, undergraduate, professional, nondegree; freshman, sophomore, junior, senior)
5. College and major field of study/concentration/minor
6. Previous institutions attended
7. Date and place of birth
8. Participation in officially recognized activities and sports
9. Weight and height if the student is an athletic team member
10. Dates of admission/attendance
11. Attendance site (campus, location)
12. Expected graduation date

13. Degrees conferred, with dates
14. Current term hours enrolled and enrollment status (full-time, part-time, not enrolled, withdrawn and date of withdrawal)
15. Awards, honors, and achievements (including distinguished academic performance), with dates
16. Eligibility for membership in honoraries
17. Picture

To examine his or her record, the student must submit a written request to the appropriate record-keeping office. The appropriate office will comply with the request within a reasonable amount of time, not to exceed 45 days after receipt of the request.

To prevent the release of directory information, the student must submit a request form to the Office of Registration and Records no later than the tenth day of the semester (fifth day of Summer Session 2). Such requests for nondisclosure will be honored so long as the student is continuously enrolled or unless he/she sooner revokes the request in writing.

Student Tuition, Fees, and Assessments

Undergraduate degree-seeking students entering the University in Summer 2004 or after are provided a four-year tuition guarantee. The purpose of the undergraduate guaranteed tuition plan is to provide a high degree of certainty about tuition costs for students and families. The plan applies to all undergraduate students enrolled in a baccalaureate degree program on one of the three campuses of the University of Illinois. The plan treats every student as part of a cohort defined by the date of entry to the University. Each cohort is guaranteed an unchanged tuition schedule for four years. Students extending their graduation beyond four years should be prepared for a tuition increase. Please note that fees are subject to change annually. For more information on guaranteed undergraduate tuition, consult the Web http://www.vpaa.uillinois.edu/policies/tuition_guarantee.as.

Tuition

By registering for classes, students contract to pay tuition and fees unless they officially withdraw by the published refund deadline. Tuition and fees are assessed on registered students and are payable by the due date printed on the online bill. The amount of tuition and fees varies by the date a student enters the University, changes in student level, changes of program within the University, and the number of semester hours for which the student registers. Subsequent changes in the number of hours carried could result in a change from the amounts originally assessed. Tuition also varies according to the students' state residence—state of Illinois resident or nonresident. For a description and definition of state resident status, see *Regulations Governing the Determination of State Residence Status for Admission and Assessment of Student Tuition* later in this section. Tuition and fees are set annually by the University of Illinois Board of Trustees and are subject to change without notice any time prior to the first day of instruction. Consult the Office of Registration and Records Web site <http://www.uic.edu/depts/oar/rr/tuition.shtml> for current information on tuition and fees. The table on the following page lists Tuition and Fees for the 2008–2009 academic year.

State Residence Classification

The state residence classification of an applicant is determined on the basis of information given on the application and other credentials. Tuition is assessed in accordance with this information. A student who has legitimate cause for change of status may petition for change on a residency petition form provided by the Office of Admissions and Records. See *Regulations Governing the Determination of State Residence Status for Admission and Assessment of Student Tuition*.

Exemptions and Assessments

A student who qualifies under the stated conditions may be exempted from one or more of the following charges.

Tuition is waived for:

1. Holders of tuition-waiver scholarships.
2. All academic employees, except graduate assistants, of the University on appointment for at least 25 percent of full-time service. Such appointments require service for not less than three-fourths of the term.
 - a. Tuition may be waived for the total number of semester hours taken by an academic employee. The total number of semester

hours that can be taken by academic employees is determined by the employee's college.

- b. The staff members must provide service for at least three-quarters of the term in which the course work is taken to maintain the waiver. The term is defined as beginning with the first day of class and extending through final examinations. For staff members who resign their appointments or otherwise become ineligible for a waiver, the waiver is void; the staff member is responsible for payment of the full amount of tuition unless an official withdrawal from the University is initiated immediately.
 - c. Enrollment in courses will be in accordance with all University and campus rules and regulations.
 - d. The academic/professional employee and his/her head or director will determine the manner in which job responsibilities are to be carried out while the employee is taking course work.
3. Support staff employees:
 - a. Support staff employees of the University in status appointments or in appointments designed to qualify for status in an established class (e.g., trainee, intern) who register in regular University courses not to exceed Range II in a semester if on full-time appointment or Range III if on 50 to 99 percent time appointment. They must also (1) meet conditions and eligibility for admission as prescribed by the Office of Admissions and Records; (2) not be students as defined in Civil Service Rule 7.7c; and (3) have approval from their employing departments for enrollment and a makeup schedule to cover any time in course attendance during their regular work schedule. The waiver of tuition also applies to any additional hours of registration by employees that keep them within the same fee assessment credit range. Employees whose total registration is in a higher range than that authorized by their tuition waiver pay only the difference between the waiver authorization and the higher range in which their total registration places them.
 - b. Support staff employees in a status, learner, trainee, apprentice, or provisional appointment who enroll in regular courses directly related to their University employment are included. The number of credit hours per term may not exceed Range II. Employees must have made application and received prior approval for enrollment as required by procedures issued by the director of support staff personnel and set forth in the publication *Policy and Rules Nonacademic*.
 4. Holders of graduate tuition-and-fee waivers awarded by the Graduate College.
 5. Holders of outside-sponsored grants or contracts that provide payments to cover the total costs of instruction.

| Fall 2008 and Spring 2009 | Resident | Nonresidents |
|--|-------------------|---------------------|
| Full-time Tuition and Fee Range per Semester | \$5,457 - \$7,610 | \$11,652 - \$13,805 |

The table below provides 2008–2009 Tuition and Fee Ranges.

To use the table, add these four amounts: ❶ tuition + ❷ tuition differential + ❸ fees + ❹ assessment

| ❶ Undergraduate Tuition | | | | | | | |
|--|--|--------------|--------------------------|--------------|--------------------------|--------------|-----------------|
| | University of Illinois at Chicago Tuition and Fees 2008-2009 FALL 2008 AND SPRING 2009 SEMESTER RANGE RATES | | | | | | |
| | Range I - (12 hours & over) | | Range II - (6 to 11 hrs) | | Range III - (1 to 5 hrs) | | Range IV- 0 hrs |
| | In state | Out of state | In state | Out of state | In state | Out of state | In/Out of state |
| General Undergraduate Guaranteed 4-Year Tuition (entered Summer 2008 through Spring 2009) | \$4,065 | \$10,260 | \$2,710 | \$6,840 | \$1,355 | \$3,420 | \$678 |

| ❷ Undergraduate Tuition Differentials | | | | |
|--|---------|----------|-----------|----------|
| | Range I | Range II | Range III | Range IV |
| Architecture and the Arts Entered Summer 2008 through Spring 2009 | \$548 | \$365 | \$183 | \$91 |
| Engineering Entered Summer 2008 through Spring 2009 | \$899 | \$599 | \$300 | \$150 |
| Nursing Entered Summer 2008 through Spring 2009 | \$1,752 | \$1,168 | \$584 | \$292 |
| Business Administration Entered Summer 2008 through Spring 2009 | \$500 | \$333 | \$167 | \$83 |
| Kinesiology Entered Summer 2008 through Spring 2009 | \$500 | \$333 | \$167 | \$83 |
| Human Nutrition entered Summer 2008 through Spring 2009 | \$315 | \$210 | \$105 | \$53 |
| Health Information Management Entered Summer 2008 through Spring 2009 | \$548 | \$365 | \$183 | \$91 |
| Physics, Biological Sciences, Neuroscience, Chemistry, Biochemistry, & Earth and Environmental Sciences entered Summer 2008 through Spring 2009 | \$500 | \$333 | \$167 | \$83 |

| ❸ Undergraduate Fees | | | | |
|--|----------------|--------------------------------------|----------------|----------------|
| | Range I | Range II | Range III | Range IV |
| General Fee | \$409 | \$409 | \$409 | \$409 |
| Student to Student Fee | \$3 | \$3 | \$3 | \$3 |
| Service Fee | \$307 | \$307 | \$196 | \$196 |
| Health Service Fee | \$108 | \$108 | \$108 | \$108 |
| Health Insurance Fee With proof of insurance, this fee can be waived at www.uic.edu/hsc/campuscare | \$401 | \$401 | \$401 | \$401 |
| CTA U Pass Transportation Fee Assessed for full time study defined as 12 hours. | \$95 | Not assessed for less than full time | | |
| Subtotal fees | \$1,323 | \$1,228 | \$1,117 | \$1,117 |

| ❹ Assessment | | | | |
|--|--------------|--------------|--------------|-------------|
| | Range I | Range II | Range III | Range IV |
| Academic Facilities Maintenance Fund Assessment (see note 6 & 7 below). Assessed to undergraduate students except those in the 2005 guaranteed rate cohort. | \$270 | \$180 | \$90 | \$45 |
| Library and Information Technology Assessment (see note 8 below). Assessed to students entering Fall 2008 and after. | \$200 | \$133 | \$67 | \$33 |
| Subtotal assessments | \$470 | \$313 | \$157 | \$78 |

Notes

- Tuition and fees are subject to change without notice any time prior to the first day of instruction.
- Students admitted to online programs will be assessed \$675 per credit hour "eTuition." eTuition is assessed to students admitted into formally recognized online programs (with program codes ending in "U"). The program of admission will control tuition and fee assessment.
- In fall and spring semesters, an additional \$3.00 will be assessed for the Student-To-Student Assistance Program (refundable). Not assessed in summer.
- All full-time students are assessed a \$95 transportation fee for the CTA U Pass. Full time is defined as 12 or more credits hours for undergraduate students.
- The transportation fee will be assessed to degree and nondegree students in the categories listed in note 4 above.
- Undergraduate degree seeking students entering the University in Summer 2004 or after are provided a four-year tuition guarantee. Students who entered in Summer 2004 through Spring 2005 ("2004 Cohort") are now placed in the cohort of students who entered Summer 2005 through Spring 2006 ("2005 cohort"). The 2004 Cohort will continue to move to successive guaranteed cohorts each year. The purpose of the undergraduate guaranteed tuition plan is to provide a high degree of certainty about tuition costs for students and families. The plan applies to all undergraduate students enrolled in a baccalaureate degree program on one of the three campuses of the University of Illinois. The plan treats every student as part of a cohort defined by the date of entry to the University. Each cohort is guaranteed an unchanged tuition schedule for four years. Please note that fees are subject to change annually. For details on guaranteed undergraduate tuition see <http://www.vpaa.uillinois.edu/Policies>.
- The Academic Facilities Maintenance Fund Assessment (AFMFA) is assessed to all undergraduates except those in the 2005 guaranteed rate tuition cohort. AFMFA is \$270 per semester for full-time students enrolled for at least 12 credit hours. For less than full-time enrollment, the AFMFA will be based on enrolled credit hours pro-rated according to range calculations.
- In order to generate the resources to improve the learning environment, a Library and Information Technology Assessment of \$200 per semester is charged to new undergraduate, graduate, and professional students enrolling in Fall 2008 and after. For students at less than full-time enrollment the assessment is pro-rated according to tuition range calculations.

6. Cooperating teachers and administrators who receive assignment of practice teachers; social agency field instructors who receive assignment of social work students. Such persons who register in University courses are exempted from tuition and the service fee for one semester or summer session for each semester of service rendered. The exemption shall apply to the semester or summer session of registration, as designated by the student, that is concurrent with, or following, the term of service, but must be applied no later than one calendar year from the end of the term of service. Concurrent registration on more than one campus of the University or in University extramural courses constitutes one semester or session of eligibility for exemption.
7. Persons registered in noncredit seminars only.
8. University employees registered at the request of their departments in noncredit courses especially established to improve the work of the employee.
9. University of Illinois retirees.
10. Illinois residents, age 65 or older, whose annual household income is less than \$12,000.
11. Teacher of the Year.
12. Fifty percent of tuition is waived for eligible children of eligible University of Illinois employees:
 - a. An eligible employee must be a current University of Illinois employee at 50 percent time or more, eligible for employer-provided benefits, and in active status as of the first day of the academic term for which the waiver is being requested (changes in status after the first day will affect only future academic terms). In addition, the employee must have completed at least seven years of eligible employment as of the first day of the academic term, although the seven years do not have to be consecutive.
 - b. An eligible child must be under 25 years of age at the beginning of any academic year (defined as the first day of instruction) in which the waiver will be effective; and must be the natural child, adopted child, child of current spouse, or under court-appointed guardianship of the eligible employee. The eligible child must qualify for admission under the same requirements, standards, and policies applicable to general admissions.
 - c. The 50 percent tuition waivers under this program apply only to Board of Trustees approved undergraduate tuition rates (not fees). Waivers under this program are applicable at any campus within the University of Illinois system to which the child has been admitted.
 - d. Extramural and correspondence courses are not eligible for any waiver under this program.
 - e. An eligible child, who remains under the age of 25 at the beginning of any academic year, can expend a total of four years worth of waivers as long as satisfactory progress toward graduation at the University is maintained. Each year consists of two semesters and one summer session.
13. CPS College Bridge students.

The **nonresident portion of tuition** (if the enrollee is subject to payment of tuition) is waived for:

1. All staff members (academic, administrative, or permanent support staff) on appointment for at least 25 percent of full time and not less than three-quarters service for the term, or on an appointment for less than 25 percent of full time with the University. The faculties of state-supported institutions of higher education in Illinois holding appointments of at least one-quarter time.
2. The professional staff in private and public elementary and secondary schools in Illinois.
3. The spouses and dependent children of those listed in items 1 and 2. (Dependent children are those who qualify as dependents for federal income tax purposes.)
4. Persons actively serving in one of the armed forces of the United States who are stationed and present in Illinois in connection with that service.
5. The spouses and dependent children of those listed in item 5, as long as they remain stationed, present, and living in Illinois.

For assessment purposes, a staff appointment must require service for not less than three-fourths of the academic term. Specific dates marking completion of service for three-fourths of the term shall be established by the chancellor or his designee on each campus. Staff tuition-and-fee privileges do not apply to students employed on an hourly basis in either an academic or support staff capacity or to persons on leave without pay.

For assessment purposes, a permanent support staff employee is defined as a person who has been assigned to an established, permanent, and continuous support staff position and who is employed for at least 25 percent of full time. University employees appointed to established, civil service positions whose rate of pay is determined by negotiation, prevailing rates, or union affiliation are entitled to the same tuition-and-fee privileges accorded other staff members under the regulation.

For assessment purposes, an academic/professional employee is defined as an employee whose appointment is not prescribed by Article X, Section 1, of the *University Statutes*, or for whom the rules of the University Civil Service System are not applicable. Therefore, academic/professionals are those staff members who are *not* (1) in the professorial ranks, (2) instructors or lecturers, (3) research or teaching associates, (4) research or teaching assistants (graduate or undergraduate), or (5) support staff (University Civil Service) employees. Staff members who have “visiting” or “adjunct” prefixes to the above ranks in their titles are also excluded from the academic/professional category.

Excluded are all academic/professional appointees on leaves of absence without pay.

A student who resigns a support staff or academic appointment, or whose appointment is cancelled before service has been rendered for at least three-fourths of the term, becomes subject to the full amount of the appropriate tuition and fees for that term, unless withdrawal from the University classes is effective at the same time the appointment becomes void or unless clearance for graduation is filed within one week after the appointment becomes void.

Fees

All fees are subject to change without notice.

Application Fee

All applicants for admission pay a nonrefundable application fee of \$40.00 for domestic/immigrant students or \$50.00 for international students. Undergraduates applying for readmission are not required to pay another application fee.

The application fee may be waived for:

1. Members of the University faculty and staff.
2. Extramural nondegree applicants.
3. Applicants who, because of extreme financial hardship, cannot meet the cost of the fee. (Subject to the approval of the executive director of admissions.)
4. Applicants under approved international exchange programs in which the University participates such as LASPAU and ASPAU, and international students participating in approved exchange programs where the waiver of fees is reciprocal.
5. University of Illinois intercampus transfers at the same level: undergraduate to undergraduate, graduate to graduate, or professional to professional.
6. Applicants denied admission to one campus who wish to apply for admission on the same level at another campus for the same term.
7. Graduate and professional applicants whose entry is advanced or delayed by action of their major departments.
8. UIC students applying for work on a second campus as concurrent registrants.
9. Cooperating teachers and administrators who receive assignment of student teachers; social agency field instructors who receive assignment of social work students.
10. Students on "leave of absence" status who are re-entering.
11. Applicants to the Talented High School Senior Program.
12. Summer Session Only (SSO) applicants.
13. Chicago Public Schools Bridge Program.

The following UIC Student Fees are assessed upon enrollment:

Service Fee

This fee supports staff salaries, programming, and general operating expenses for the following student services: Student Centers, Intercollegiate Athletics, Student Leadership Programs, Student Legal and Ombudsperson Services, Student Government, and student services at Rockford, Peoria and Quad Cities. The fee is mandatory.

The service fee is waived for:

1. Holders of tuition-and-fee waivers awarded by the Graduate College.
2. Holders of grants or contracts from outside approved sponsors if the service fee is charged to the contract or to grant funds.

The following groups are exempt from the service fee:

1. All the staff members of the University who are on appointment for at least 25 percent of full-time service.
2. Cooperating teachers and administrators and social agency field instructors who meet the qualifications of item 6, tuition waiver exemptions.

3. Persons registered in noncredit seminars only.
4. University employees registered at the request of their department in noncredit courses for the purpose of improving their work.
5. University of Illinois retirees.
6. Teacher of the Year.

General Fee

This fee supports the fixed costs, such as utilities, of operating fee-supported facilities on campus including: Student Centers, Campus Recreation, Campus Housing, the UIC Pavilion, the UIC Forum, and the Flames Athletics Center. The fee is mandatory.

Health Service Fee

This fee supports staff salaries, programming, and general operating expenses for the campus health service providers: Family Practice/Student Health Center, the Counseling Center, the Wellness Center, and pharmacy services. The fee is mandatory.

Student Health Insurance Fee

This fee provides health insurance that is mandatory for students. The fee is assessed on all students who enroll but may be waived for those who can demonstrate equivalent health insurance coverage.

Student-to-Student Fee

This fee provides financial support to undergraduate and graduate students who demonstrate high financial need. The fee is mandatory and is assessed each term. However, it is refundable each term if a cancellation is requested.

Transportation Fee—CTA U Pass

Full-time (12 or more hours) undergraduate, full-time (9 or more hours) graduate, and full-time (12 or more hours) professional students are assessed a transportation fee for the CTA U Pass.

Assessments

Academic Facilities Maintenance Fund Assessment

The Academic Facilities Maintenance Fund Assessment (AFMFA) is assessed to all undergraduates except those in the 2004 and 2005 guaranteed rate tuition cohorts to address the deferred maintenance backlog in academic facilities. The AFMFA is assessed to all graduate and professional students enrolled Summer 2006 and after and those enrolled prior to Summer 2005.

Library and Information Technology Assessment

In order to generate the resources to improve the learning environment, a Library and Information Technology Assessment is charged to undergraduate, graduate, and professional students enrolling Fall 2008 and after. A change of student level from nondegree to degree, undergraduate to graduate or professional, is considered a new admission term. Students making a change in student level Fall 2008 or after will be assessed the Library and Information Technology Assessment.

Other Fees and Charges

One or more of the following additional fees and/or charges are assessed as applicable.

- The visitor/auditor fee of \$15.00 is assessed all class visitors who are not in Range I in the tuition-and-fee schedule. Exact change, check, or money order required.

- A late placement test fee of \$15.00 per individual test is charged to all students taking placement tests during late registration.
- The late-registration fee of \$50.00 is assessed all students who complete registration after the tenth day of the fall and spring semesters, and after the first Wednesday of Summer Session 1 or first Friday of Summer Session 2.
- The lost-photo-identification-card fee of \$20.00 is assessed for replacing a lost or destroyed i-card, issued to the student at the time of first registration at UIC.
- The special examination fee of \$10.00 is assessed for a special examination taken in the hope of obtaining credit in a course that has been failed at the University of Illinois.
- The transcript request fee of \$5.00 is assessed for each transcript request.
- The first four requests for verification of enrollment or graduation verification per semester are free. Each thereafter incurs a certification fee of \$5.00 for each verification of enrollment or graduation verification. Exact change, check, or money order required.

CampusCare Student Health Benefit Program

The University requires all students to have healthcare coverage. All newly admitted students are automatically enrolled in *CampusCare* and assessed the *CampusCare* fee as part of their tuition. *CampusCare* is the University-Based Health Benefits program designed to provide protection against unexpected accidents and illnesses. The program covers services such as: inpatient and outpatient hospitalization, prescription drugs, physical therapy, home health care, mental health and substance abuse services and emergency services.

During the open enrollment period at the beginning of each term, new and continuing students have an opportunity to make choices concerning their healthcare coverage. Students enrolled in *CampusCare* may also enroll or disenroll qualified dependents such as a spouse or unmarried children.

Coverage begins on the first day of the term and ends on the first day of the subsequent term. The *CampusCare* Fee is billed with tuition and payable in full unless a waiver is approved. Students enrolled in academic programs that begin earlier than the term dates identified will be assessed an additional fee to cover the extended benefit coverage period. Students who withdraw from the University on or after the first day of class do not receive a refund of the *CampusCare* Fee and are covered for the balance of the term from which they withdrew. *CampusCare* does not pro-rate the insurance premium.

Students who show proof of comparable health insurance coverage prior to the published deadline, may “waive out” of the program by logging onto the *CampusCare* Web site at <http://www.uic.edu/hsc/campuscare> and submitting an online “waiver form” during the open enrollment period. Once approved, a waiver remains in effect for the entire duration you are a registered student at UIC or until a request for reinstatement of coverage is submitted.

Detailed information about covered benefits, premium rates, dependent coverage, summer coverage, how to access care, print ID cards, deadline dates, and all online forms are available to students at <http://www.uic.edu/hsc/campuscare>. Information is also available in the online

Schedule of Classes, <http://www.uic.edu/index.html>/ home page by typing in *CampusCare* in the search function or at their campus-specific Web site.

Payment of Tuition and Fees

University Student Financial Services and Cashier Operations
1900 Student Services Building (SSB)
(312) 996-8574

usfscohelp@uillinois.edu
<http://www.usfsco.uillinois.edu>

The University of Illinois utilizes electronic billing (E-Bills) for the billing of tuition and fees. Billing statements are not mailed to students. Currently enrolled students receive an e-mail notification early each month, at their UIC assigned e-mail address, indicating when tuition and fee statements are available online. The online statement, called the E-Bill, allows students to view charges in an easy-to-read, user-friendly format.

In addition, students can set up other individuals, such as a parent or guardian, to view their E-Bill, receive e-mail notification when E-Bills are available, or to make an online payment on their behalf. For additional information about E-Bills, please refer to the following Web site <http://www.usfsco.uillinois.edu>.

There are a variety of payment options. Payments may be made online using an electronic check, MasterCard, American Express credit card, or Discover credit card via UI-Pay, the online billing and payment system. Please note that there is a 2.4% convenience fee added for credit card payments. Refer to the UI-Pay Web site <http://www.usfsco.uillinois.edu> for information about online payments.

The U of I offers three payment plans allowing for payment of tuition, mandatory fees, room, and board charges to student accounts. The University's Pre-Payment Plan is administered by Nelnet Business Solutions. This is an **optional** pre-payment plan that students may enroll in as an alternative to the regular University Payment policy. Refer to <http://www.usfsco.uillinois.edu/prepaymentplan.html> for more information about Pre-Payment Plans.

Checks or money orders may also be mailed to University of Illinois, Student A/R, PO Box 19455, Springfield, IL 62794-9455.

Encumbered Students

An encumbered student is one who owes any money to the University. Encumbered students will not be permitted to register, and will not be entitled to receive an official transcript until their indebtedness has been paid.

Past due accounts are subject to a late payment charge at the annual percentage rate of 18 percent (1.5 percent per month on the unpaid balance of each month).

Please note that the University of Illinois at Chicago does refer past due accounts for collection. Where appropriate, the University will authorize legal action to effect settlement of an account. Students will be liable for all reasonable collection costs, including attorney fees and other charges necessary for the collection of a past due account.

Refunds

Refunds of a portion of tuition and fees may be authorized for students withdrawing from the University or from one or more courses as detailed below.

Refund Schedule:

| | |
|--|---|
| Cancel registration by the first official day of instruction | 100 percent refund |
| Withdraw from University during first through tenth week of term | Pro rata refund based upon official date of withdrawal (See Refund Schedule below) |
| Course Drop | No rebate after the second Friday of fall or spring (first Wednesday of Summer Session 1 or first Friday of Summer Session 2) |

Refund on Withdrawal from the University

Requests for withdrawals should be initiated using *Student Self-Service* or after the late add/drop period, in the student's college office. A pro rata refund of tuition and fees (excluding the health service, health insurance, and transportation fees) will be issued to a student who withdraws on or before 60 percent of the enrollment period has elapsed (i.e., the tenth week of the fall or spring semester or fifth week of Summer Session 2). Refunds for withdrawal from the University will be prorated based upon the official date of withdrawal as follows:

Fall and spring refund schedule:

| Date University Withdrawal Initiated Refund ^a | |
|--|------|
| 1st day of instruction week 1 | 100% |
| Week 1 | 90% |
| Week 2 | 90% |
| Week 3 | 80% |
| Week 4 | 70% |
| Week 5 | 70% |
| Week 6 | 60% |
| Week 7 | 60% |
| Week 8 | 50% |
| Week 9 | 40% |
| Week 10 | 40% |
| Week 11–16 | 0% |

^a Less an administrative fee of \$100.

Before a refund is made to the student, the University will make a refund to the appropriate financial aid programs providing assistance to the student. If a student is indebted to the University at the time of withdrawal, the amount that is owed will be deducted from the refund amount paid to the student.

Refund on Withdrawal from a Course

If withdrawal from a course is completed by the second Friday of instruction of the fall or spring semester (the first Wednesday of instruction of Summer Session 1 or first Friday of Summer Session 2) and results in a reduction in the student's program to a lower tuition-and-fee range, the full difference is refunded.

Refund on Withdrawal by a Visitor/Auditor

A full refund of the Visitor/Auditor Fee is issued if the withdrawal is made within the first 10 days of fall and spring term (the first Wednesday of Summer Session 1 or first Friday of Summer Session 2).

Refund on Withdrawal to Enter U.S. Military Service

A student who withdraws from the University to enter military service must meet certain requirements in order to be eligible to receive a refund of tuition and fees or receive academic credit. For full information, see *Withdrawal to Enter U.S. Military Service* in the *Registering and Enrolling in Courses at UIC* section.

Cancellation of Enrollment

Students who wish to cancel their registration and receive a complete refund of tuition and fees must do so by the first day of classes. They may do this online or in person.

Important Note: If a student receives federally funded financial aid, the refund may be adjusted in accordance with federal regulations. If a student owes money to the University, the refund will be reduced by the amount owed.

Regulations Governing the Determination of State Residence Status for Admission and Assessment of Student Tuition

The University of Illinois is a land-grant institution assisted by funding from state of Illinois tax revenue. As a state, tax-assisted institution, the University (with some exceptions) extends preference in admission and tuition to residents of the state of Illinois—that is, to students whose circumstances conform to the University's definition of state resident status stated below.

The University of Illinois' definition of the term "resident" may be different from the definitions developed by other, non-University agencies. Thus, a person who is an Illinois resident for tax or voting purposes, for example, is not necessarily a state resident for University of Illinois tuition and admission purposes. The University's definition of state resident status applies both to payment of tuition and admission to the University of Illinois.

Principal elements determining state residency are domicile in Illinois and actions that evidence the intent to make Illinois the person's permanent residence. A person has but one domicile at any time. Mere physical presence in Illinois, regardless of how prolonged, is insufficient to establish state residency without existence of action and intention to make the place a permanent residence and principal home. In order to establish bona fide residence in Illinois under this policy, a person must demonstrate presence and intent to reside permanently in Illinois for reasons other than educational objectives.

The burden of establishing that a student is domiciled in Illinois for other than educational purposes is upon the person. The regulations, factors, and procedures enumerated in this policy will be considered by the University in determining state residence status.

State residence status regulations are subject to change from time to time at the discretion of the Board of Trustees. A person holding nonresident status is subject to rules in effect when the petition seeking Illinois residency is filed. Nothing in these rules shall be applied retroactively to reverse in-state residence status previously granted under former regulations.

Regulations

The following regulations are used to determine the state resident classification of a person for admission and tuition assessment.

- A. A person's domicile is presumed to be that of his/her parent(s) or legal guardian unless the student is independent and establishes a separate domicile. A person who is dependent upon his/her parent(s) or other person in authority, other than spouse, for financial support shall not be considered independent for the purpose of these regulations. A person claiming independence may be requested to present satisfactory evidence that his/her parent(s) or legal guardian have not contributed significantly to his/her support nor claimed him/her as a dependent for federal or state income tax purposes during the period in which the person attempts to establish and/or maintain residency. Filing and payment of Illinois income tax is necessary to establish residency.
- B. In order to be classified as a resident for purposes of admission, an independent person shall be domiciled in Illinois and a bona fide resident of the state for at least one calendar year immediately preceding the date of receipt of the application for admission. To be considered a resident for purposes of assessment of tuition, an independent person must be a bona fide resident of the state for at least one calendar year immediately preceding the first scheduled day of classes for the term for which residency is sought.
- C. During the one-year period in which a person attempts to establish residency, a person must be financially independent. He/she must rely upon gainful employment in Illinois or prove reliance upon resources in Illinois for more than fifty percent of the income sufficient to provide for tuition, fees, and normal living expenses, e.g., food, clothing, housing, and transportation. Income earned as a result of University enrollment, such as educational loans, graduate assistantships, or student employment, is not considered as evidence of intent to establish residency. During the one-year period in which a person attempts to establish Illinois residency, a person must reside in the state primarily for other than educational purposes.
- D. A person who is not a citizen of the United States of America may establish resident status unless the person holds a visa, which precludes an intent to permanently reside in the United States. A list of the visa classifications may be obtained from the Office of Admissions and Records.
- E. Noncitizens may commence establishment of state residence with notification of permanent residency status by the United States Citizenship and Immigration Services provided the person meets and complies with all the applicable requirements of these Regulations.
- F. The minor children of persons who, having resided in this state for at least 12 months immediately prior to such a transfer, are transferred by their employers to some location outside the United States shall be considered as Illinois residents for purposes of the computation and payment of tuition. However, this Section shall apply only when the minor children of such parents enroll in a state-supported college or university within five years from the time their parents are transferred to some location outside the United States.

If the parent(s) or legal guardian of a resident person establishes a domicile outside the state of Illinois after the person has been admitted, the person shall continue to be classified as a resident student until degree completion, assuming timely matriculation and providing the person maintains continuous enrollment and maintains a separate residence within the state of Illinois.

- G. It is required that a person who claims Illinois domicile while living in another state or country will provide proof of the continued Illinois domicile. Proof may include, but is not limited to, evidence that the person (or parent or legal guardian as applicable) has not acquired a domicile in another state, has maintained a continuous voting record in Illinois, and has filed regular Illinois resident state income tax returns during absence from the state.
- H. A person whose parents move to Illinois may become a resident at the beginning of the next term following the move.

An independent person whose parent or parents have established and are maintaining a bona fide residence in Illinois will be regarded as a resident if the independent person lives in Illinois.

Even though a divorced or separated parent who is not a resident of Illinois provides significant financial support, a person shall be classified as a resident as long as the other parent resides permanently in Illinois.

- I. A nonresident shall be classified as a resident if his/her spouse is a resident of Illinois and meets the applicable requirements of these regulations. A noncitizen may establish residency through his/her resident spouse, provided the noncitizen complies with Section D of these regulations.
- J. A person who is actively serving in the armed forces of the United States and who is stationed and/or present in the state in connection with that service, may be eligible for a waiver of the nonresident portion of tuition in accordance with Board policy as long as the person remains stationed and/or present in Illinois. The waiver is extended to the person's spouse and dependent children when they also live in the state. A resident of Illinois, and the spouse and dependent children, who is stationed outside of Illinois in active service in the armed forces of the United States and who has maintained residency under Section G shall be classified as a resident.
- K. Staff members of the University and of allied agencies, and faculties of state-assisted institutions of higher education in Illinois, holding an appointment of at least one-quarter time, and their spouses and dependent children, shall be treated as residents.

The term "staff member" as used in these regulations shall mean a person appointed to a faculty, academic professional, or permanent civil service position for a specific amount of time at a salary or wage commensurate with the percentage of time required. The appointment shall require service for not less than three-fourths of the term. For purposes of residency, the term "staff member" shall not apply to persons employed on an hourly basis in an academic capacity, nor to persons on leave without pay.

- L. Nonresident teachers in the private and public elementary and secondary schools in Illinois holding an appointment of at least one-quarter time shall, if required to pay tuition, be assessed at the resident rate. This privilege also extends to the summer session immediately following the term of the appointment.

Any nonresident teacher who qualifies for resident tuition as described above shall become subject to nonresident tuition for the entire term if the school appointment is vacated prior to completion of three-fourths of the term in question.

Resignation or cancellation of the appointment prior to the close of the spring term also cancels the eligibility for the resident tuition privilege in the following summer term.

Factors in Determining State Residency

Bona fide residency must be maintained in the state of Illinois for at least one calendar year immediately preceding the date of receipt of the application for admission; or for tuition purposes, one calendar year immediately preceding the first scheduled day of classes for the term for which resident classification is sought. The following circumstances, although not necessarily conclusive, have probative value in support of a claim for state resident classification.

1. Continuous physical presence—defined as no more than a three-week absence from the state of Illinois—for at least one calendar year as described above.
2. Domicile in Illinois of parent(s) or guardian legally responsible for the student. Domicile in Illinois of spouse.
3. Voting or registration for voting in Illinois.
4. Illinois driver's license or identification card and automobile registration.
5. Financial independence and payment and filing of Illinois income/property taxes and/or ownership of property in Illinois during the tax year or partial tax year immediately preceding the term for which the person is requesting resident classification. Just the filing of an Illinois state income tax form, or filing a form without substantial Illinois income earned, will not be judged as a significant criterion for reclassification.
6. One calendar year of gainful employment in Illinois or proven reliance upon resources in Illinois for more than fifty percent of the income sufficient to provide for tuition, fees, and normal living expenses, e.g., food, clothing, housing, and transportation. Reliance upon income earned from loans is not viewed as evidence of intent to establish residency. Employment in Illinois must be in other than graduate assistantships or student employment.
7. The lease of living quarters and payment of utility bills in Illinois.
8. Former domicile in the state and maintenance of significant connections therein while absent.
9. Admission to a licensed practicing profession in Illinois.
10. Long-term military commitments in Illinois and/or proof that Illinois is the home of record.
11. A one calendar year period of presence in the state for other than educational purposes.
12. Establishment of financial accounts at Illinois institutions.

13. Public records, for example, birth and marriage records.
14. Other official documents verifying legal, official connection with Illinois or with organizations or institutions within the state of Illinois.
15. Exclusive use of the Illinois address when home or mailing address is requested.

The University may request documentation of the evidence. Missing evidence, the lack of evidence, or inconsistent evidence may be used to refute the claim of state residency.

Procedures

The executive director of admissions, or a designee, shall determine the initial state residence classification of each person at the time the person enters or re-enters the University.

A person who is not satisfied with the determination of his/her state residence classification may request that the responsible official reconsider it. For the purposes of admission, the written request must be received by the Office of Admissions and Records within 20 calendar days from the date of notification of state residency status. For the purposes of assessment of tuition, the written request must be received by the Office of Admissions and Records by September 30 for the fall semester, February 15 for the spring semester, June 20 for the summer term, or some other date as set by the Office of Admissions and Records.

The request should include the Petition for Determination of Residency Status (available online and from the Office of Admissions and Records) and all other materials that are applicable to the claim. The request and accompanying documentation will not be returned, and the person is advised to maintain a copy for his/her record.

If the person is still not satisfied with the determination after it has been reconsidered, the person may appeal the decision to the director, Office of University-Wide Student Programs. The appeal shall be in writing and shall include reasons for the appeal. The appeal must be received by the executive director of admissions within 20 calendar days of the notice of the ruling. The appeal will then be referred to the Office of University-Wide Student Programs. A person who fails to file such an appeal within 20 calendar days of the notice of the ruling waives all claims to reconsideration for that academic session. Filing deadlines cannot be extended or waived, and late applications and appeals will not be reviewed. The decision of the Office of University-Wide Student Programs shall be final in all cases.

A person may be reclassified at any time by the University upon the basis of additional or changed information. If the person is classified in error as a state resident, nonresident tuition shall be assessed in the next term; if the person is classified in error as a nonresident, state resident tuition shall be assessed in the term in which the classification occurs, provided the person has filed a written request for a review in accordance with these regulations.

A person who fails to notify the University of a change of facts or provides false information that might affect classification or reclassification from state resident to nonresident status and/or who provides false information or conceals information for the purpose of achieving resident status may be subject to appropriate disciplinary action, as well as other penalties which may be prescribed by law. Further information or clarification may be secured by contacting the Executive Director of Admissions, 1100 Student Services Building (MC 018), University of Illinois at Chicago, Office of Admissions and Records, Box 5220, Chicago, Illinois 60680-5220.

Financial Aid

Office of Student Financial Aid (OSFA) MC 334

Suite 1800, Student Services Building (SSB)

1200 West Harrison Street

Chicago, Illinois 60607-7163

Phone: (312) 996-3126

Fax: (312) 996-3385

Email: money@uic.edu

Web Site: <http://www.financialaid.uic.edu>

Introduction

The Office of Student Financial Aid (OSFA) is responsible for assisting students and their families in meeting the educational expenses of attending UIC. There are various types of financial aid such as gift assistance (grants, scholarships and waivers) and self-help (loans and employment) which are available to UIC students from federal, state, institutional and private sources. However, please keep in mind that the primary financial responsibility for meeting educational expenses rests with the student and their families as financial aid is only meant to bridge the gap between what a student can afford as determined by the Free Application for Federal Student Aid (FAFSA) and the cost of attending UIC.

Note: The financial aid process and most types of financial aid awards are regulated by the federal and state governments. Therefore, the financial aid information contained in this catalog is subject to change at any time. For much more detailed information about the financial aid process, awards, etc., and the most current information, it is advised that you refer to the OSFA Web site.

Financial Aid Counselors

The OSFA is open Monday through Friday from 8:30 a.m. to 5:00 p.m., except during scheduled holidays. During office hours professional staff are available in the reception area to answer questions. If you feel the need to discuss your situation more in depth, you can make an appointment with your assigned financial aid counselor, which is based on the college in which you are currently enrolled. Students can find out the name of their counselor via the OSFA Web site. To schedule an appointment, please call the main office phone number (listed above) at least one business day in advance and request to schedule an appointment. Out of courtesy for all, please arrive on time for appointments. There are no appointments available on Wednesdays and the first week of classes for each semester, though counselors can still be reached in reception, by phone, or by e-mail.

If you e-mail or leave a voicemail for your counselor, please be sure to include your University ID Number (UIN). Staff will make every attempt to respond to your inquiry within 24 hours. However, at the start of each semester, due to the large volume of e-mails, phone calls and walk-ins, please allow 2-4 business days for a response. If at all possible, please try not to wait till the last minute, especially at the start of the fall semester. The office is open all summer long to assist with questions, process paperwork, etc. and makes every attempt to limit wait times at the start of each semester.

Keep in mind that most information is available via the financial aid Web site. Additionally, for students who are enrolled or have been admitted to UIC and have a University Identification Number (UIN), they may also access student specific financial aid information by logging into the UIC Portal at <http://connect.oss.uic.edu>. This information is the exact same information that staff view when a student inquires with questions. Via the portal a

student can view a list of outstanding document requirements, accept/decline their financial aid awards, view past year's financial aid awards and view what financial aid awards have been disbursed to their student account.

Applying for Financial Aid

Eligibility

Students must meet the following minimum criteria to be considered for the federal, state and most institutional programs:

- File the Free Application for Federal Students Aid (FAFSA) each year.
- Be a U.S. Citizen or an Eligible Noncitizen.
- If male, be registered with Selective Service.
- Have a high school diploma or GED High School Equivalency diploma.
- Be enrolled in a degree-seeking or approved certificate program.
- Not be in default on any federal educational loans or owe a refund on a federal grant.
- Be making Satisfactory Academic Progress.

The Free Application for Federal Student Aid

Students who wish to be considered for financial aid must complete the Free Application for Federal Student Aid (FAFSA). FAFSAs are available on January 1 of each year (for classes beginning the following August). UIC's priority deadline for completion of the FAFSA for each upcoming school year is March 1. FAFSAs are accepted after March 1, but due to limited funding in some programs, students may no longer be eligible for some types of assistance.

When completing the FAFSA, it is vital that students consistently report their Name, Social Security Number and Date of Birth. The U.S. Department of Education will verify the information reported with various other federal agencies. If the information does not match, it will delay processing. Additionally, the information reported on the FAFSA must match exactly with the permanent student record at UIC. Once again, if the information reported on the FAFSA does not match, it will delay processing.

The OSFA recommends that students complete the FAFSA online at <http://www.fafsa.ed.gov>. UIC's school code (001776) must be listed; otherwise, UIC will not receive the FAFSA information. Completing the application online reduces processing time and errors. To complete the FAFSA online the student and parent (if the student is dependent) must have a Federal Student Aid Personal Identification Number (PIN) in order to be able to sign the form electronically. You may apply for a PIN at <http://www.pin.ed.gov>. Although the OSFA recommends that students complete the FAFSA online, paper FAFSAs are available upon request from the U.S. Department of Education.

Please note that students are considered dependent or independent based on information provided on the FAFSA. Most undergraduate students are considered dependent. All graduate students are considered independent. Dependent students must report parental income information on the FAFSA. Dependency is not a status of choice. Dependency status for financial aid is not based on whether or not a student lives with a parent; whether or not a student is financially self-supportive; or whether or not parents claim a student as a dependent on their taxes.

After receiving your FAFSA, the federal processor will send the student a Student Aid Report (SAR) electronically (unless you filed a paper FAFSA). The SAR lists all the information submitted on the FAFSA and explains the EFC calculated from that information. You should review the SAR for accuracy and make any necessary corrections.

Additional Document Requirements

Per the federal regulations, approximately 30% of students must submit additional documentation to the OSFA in order to verify the information reported on the FAFSA. This may include, but might not be limited to, a Verification Worksheet and signed copies of your and your parents'/spouse's federal tax returns and W2's.

If additional information is required, the OSFA will send the student a letter or e-mail detailing the specific documentation being requested. It is important that all required documentation be submitted with proper signatures in a timely manner as until all required documentation is received and reviewed, we cannot finalize a financial aid award. Students should return the required documentation within 2 to 4 business days from the initial correspondence. Students are highly encouraged to mail or drop off at reception all the documents at the same time.

If as a result of reviewing the information an error is noticed, the OSFA will submit corrections of your FAFSA information to the U.S. Department of Education. The verification process generally takes two to three weeks, provided all the information has been submitted in its entirety.

Applying for Summer Financial Aid

To be considered for financial aid for the summer term, students must also complete and submit to the OSFA a Summer Financial Aid Application. Applications will be made available at reception and the financial aid Web site around February 1. The priority deadline for applying for summer aid is April 1. The final deadline for submitting a summer aid application is June 30. There are limited sources of financial aid in the summer, so please apply early.

To be eligible for federal student loans in the summer, students must be enrolled at least 6 hours (5 hours for the Graduate College and School of Public Health). For financial aid purposes, summer counts as one term. So, if you are enrolled in multiple summer sessions, the sum of all your summer enrollments must add up to the 6 hour requirement (5 for the Graduate College and School of Public Health).

Determining Financial Need

After completing the FAFSA, the U.S. Department of Education will calculate the student's Expected Family Contribution (EFC) based on the income, assets, and family information provided on the FAFSA. The EFC is a specific dollar value the student and the student's family (if dependent) are expected to contribute towards educational costs during a regular academic year. The EFC is **not** the amount that the student will pay the university.

For each student the OSFA must determine an estimated Cost of Attendance (COA) which reflect costs the student may encounter during the regular nine month academic year. Such expenses may include:

- Tuition
- Fees
- Tuition Differential (if applicable)
- Books and Supplies
- Room and Board
- Transportation
- Miscellaneous Personal Expenses

The total COA is **not** the amount that the student will owe the university for the year. Some items in the COA are indirect costs, and some are estimates. Direct Costs are those the student pays directly to the university and

include tuition, fees, and tuition differential. Room and board are direct costs for those living in campus housing. Indirect Costs are costs a student will likely face during the academic year but which are not owed directly to the university. Indirect costs include books and supplies, transportation, and miscellaneous personal expenses. Room and board are indirect costs for those not living in campus housing.

Financial need is determined by subtracting the students Expected Family Contribution (EFC) and any other outside resources from the students Cost of Attendance (COA) as per the formula below:

$$\begin{array}{rcl}
 & \text{Cost of Attendance (COA)} & \\
 - & \text{EFC} & \\
 - & \text{Any outside resources} & \\
 \hline
 = & \text{Financial Need} &
 \end{array}$$

A student must have financial need in order to be eligible for need based financial aid. Additionally, the sum total of financial assistance a student receives from all sources (grants, scholarships, waivers, loans, work study, etc.) cannot exceed the students estimated cost of attendance.

Award Notification

Once the student's FAFSA and any additional required documents have been processed, the OSFA is able to award the student financial aid. At such time, an e-mail will be sent to the students UIC e-mail address (or preferred e-mail to those only admitted) with instructions on how they can view their Award Notification online. Students must accept and decline their financial aid awards online and notify the OSFA of any additional sources of funding not listed on the Award Notification. If needed, the student may print a copy of their award letter themselves.

Ideally, the OSFA will begin to process awards for new incoming students in mid-late March. However, much depends upon notification from the federal and state governments about funding levels for the various programs. Awards for continuing students will be processed after the spring term has ended and grades have been reviewed by the OSFA. So awards should be made available in late May or early June.

Please be aware that financial aid awards can be adjusted (increased, decreased or cancelled) at any point during the academic year. Awards can be adjusted for a variety of reasons, such as if the OSFA learns of outside financial resources (including tuition waivers and scholarships), if corrections are made to the students FAFSA, if the student changes enrollment, grade levels, majors, etc. If an award is adjusted, the student will be sent an e-mail informing them that a revised Award Notification is available to be viewed online.

There are several types of special circumstances that can affect student status and aid eligibility during the year. Special circumstances must be unaccounted for by the regular awarding process. For example, an unexpected loss of employment could potentially be a reason for filing a special circumstances request. Lifestyle choices, such as the purchase of a new car or home, and other situations unrelated to higher education, such as credit card debt, are not considered special circumstances. Special circumstances must always be thoroughly documented. If the student (or the parents) experiences a change in financial situation, the student should contact the OSFA.

Disbursement of Financial Aid and Refunds

The soonest the OSFA can disburse financial aid is 10 days before the start of each semester. All aid must be credited to the students UIC student billing account each semester.

Financial aid will first be credited toward any outstanding balance assessed to the account. If the financial aid disbursed is greater than the total student account balance, Student Accounts Receivable will issue a refund to the student. This is done either by Direct Deposit (much faster and encouraged) or a refund check. UIC does not have a book voucher program. If the student plans on using financial aid funds to purchase books, they must do so after they have received their refund from Student Accounts Receivable.

Withdrawal Policy

When a student withdraws from the University, two separate processes occur—the Office of Admissions and Records (OAR) prorates tuition and some fees (according to their withdrawal policy and refund schedule) and the OSFA prorates the student's financial aid.

When a student withdraws, stops attending classes, or is dismissed by the university, they will be billed for any amount of federal/state aid that is considered an advanced payment. In addition, if the student is due a refund of tuition and fees, a portion of that refund may be retained to repay the federal aid accounts on their behalf or to serve as a prepayment on loan(s). If there are questions about how changes in enrollment can affect a student's current or future financial aid eligibility, contact the OSFA.

If a student's withdrawal takes place before completing 60 percent of the term, the OSFA will calculate an earned aid percentage based upon the number of days attended, divided by the total number of days in the term. This percentage will be multiplied by the total amount of federal aid received. The result is the amount of aid the student earned before withdrawing and are, therefore, allowed to keep. The difference between the federal aid disbursed to the student and the amount of aid the student is entitled, must be returned to the federal programs in the following order:

1. Unsubsidized Direct Stafford Loan
2. Subsidized Direct Stafford Loan
3. Federal Perkins Loan
4. Direct PLUS Loan
5. Federal Pell Grant
6. Academic Competitiveness Grant
7. National SMART Grant
8. Federal SEOG
9. TEACH Grant
10. Other Title IV Funds

If a student has received funds from a state or an outside agency, or if the student received institutional funds, the OSFA must follow the guidelines specified by those organizations regarding withdrawals. For most aid types a prorated return is required.

Satisfactory Academic Progress Policy (SAP) for Financial Aid

Students must make Satisfactory Academic Progress (SAP) towards completion of their degree. If you do not meet the SAP requirements, you may lose your aid eligibility.

SAP requirements apply to all undergraduate and graduate/professional students who receive federal, state, and institutional aid administered by UIC. At the conclusion of each spring semester, the OSFA reviews all students to

ensure they are making SAP. Students not meeting SAP requirements are notified in writing via mail or e-mail.

Important: SAP requirements for financial aid are separate from degree progress requirements monitored by academic departments.

SAP Policy

UIC's SAP policy includes both qualitative and quantitative measures. Failure to meet any one of the criteria will result in cancellation of aid eligibility. All terms of a student's UIC enrollment, whether or not the student received aid in those terms, are included in this review. In addition, transfer hours are included in the maximum time frame review and cumulative grade point average (GPA), if GPA can be determined from transcripts.

Undergraduate SAP Policy

Qualitative Measure (Cumulative GPA)

Students must have at least a 2.00 (or C average) cumulative GPA by the end of their second academic year. So, this requirement applies to students who began at UIC in fall 2007 or earlier. For transfer students who began attending after Fall 2007, the 2.0 cumulative GPA requirement applies when the student has at least 60 combined UIC attempted hours and transfer hours or after 2 years at UIC, whichever comes first.

Quantitative Measure (Maximum Time Frame and Course Completion Ratio)

Students must complete their program within 150% of the published length of their program. The minimum number of credit hours required for an undergraduate degree at UIC is 120. Therefore, 180 credit hours (150% of 120 hours) is the limit for aid eligibility. The 180 hour limit applies even in cases of changed majors or the pursuit of multiple degrees. The only exception allowed is for programs that require more than 120 hours for a degree. Students exceeding the maximum time frame will have their aid cancelled.

Students must also successfully complete 67% of their cumulative attempted credit hours at UIC. All hours for which a student is registered after the add/drop deadline each term will be included as attempted hours. Successfully completed credit hours are those in which a student receives a grade of A, B, C, D, S, or P. If students fall below the 67% cumulative standard, they will be put on financial aid probation for up to one academic year. Students can continue receiving aid during probation periods; therefore, appeals for probation periods are unnecessary. After the probation period, students remaining below a 67% completion ratio will have their aid cancelled.

Assessment of course withdrawals, incompletes, repeated courses, grade forgiveness, and non-credit remedial courses

Withdrawals: Courses dropped before the conclusion of the add/drop period each semester will not count as attempted hours. Classes dropped after this point will count as attempted hours.

Incompletes: Courses in which a student has an incomplete at the time in which SAP is reviewed will be included in attempted hours.

Repeated courses/Grade forgiveness: For SAP purposes, all grades and attempted hours will be counted when calculating SAP, even if only some of these hours appear on your transcript.

Noncredit remedial course: Non-credit remedial courses are included neither in attempted hours nor in the student's cumulative GPA.

Reinstatement

Students whose aid is cancelled can have their eligibility reinstated once they again meet all SAP requirements. A student may reestablish eligibility for financial aid at any point during the academic year and be given the same consideration for aid as other students maintaining SAP. Depending upon when students regain eligibility, they may become eligible for financial aid for the semester in which it is determined they are satisfying the SAP requirements. Otherwise, reinstatement would become effective the following semester. Students should keep track of their own progress as it is their responsibility to notify the OSFA in writing if they feel they have regained their financial aid eligibility. As SAP is only reviewed at the conclusion of the spring term, it is extremely important that students who come to meet SAP requirements during the summer and/or fall terms notify the OSFA in writing. Students should keep track of their own progress and notify the OSFA in a timely fashion.

SAP Appeals

Students whose aid has been cancelled may appeal their cancellation by submitting to the OSFA a typed and signed appeal, along with proper documentation of extenuating circumstances (e.g. doctor's notice, letter from an academic advisor, etc.). The SAP Appeal Committee comprised of members of various colleges and departments will review the appeal. Students are notified via mail or e-mail of the committee's decision. The committee may reinstate a student's aid for a year or just for one semester. The committee also requires students to maintain certain standards, which are reviewed each term. The committee's decision is final. Students should submit appeals at least 30 days prior to the start of the semester for which they are seeking reinstatement. Late or incomplete appeals may not be reviewed until the following semester.

Major Financial Aid Programs at UIC

In this section, the major federal, state and institutional financial aid programs at UIC are listed. For a detailed listing of all the federal, state and institutional programs, please visit the financial aid Web site. This information is current as of the 2009–2010 academic year, unless noted otherwise. Please be aware this information may change annually.

Federal

Federal Pell Grant

The Federal Pell Grant is a federally funded program designed to assist students from low-income families. Pell Grants are awarded only to undergraduate students who have not earned a bachelor's or professional degree. The amount of the award varies based on the expected family contribution (EFC) as calculated by the FAFSA and the number of hours for which a student is enrolled at the end of the add/drop period each term. For the 2009-10 academic year, the Pell eligible EFC range is between \$0 and \$4617. Depending upon the EFC and enrollment hours as illustrated by the table below, awards can range from \$976 to \$5,350.

| Number of hours enrolled per term | Percentage of Pell Grant |
|-----------------------------------|--------------------------|
| 12+ hours | 100% of award |
| 9–11 hours | 75% of award |
| 6–8 hours | 50% of award |
| 1–5 hours | 25% of award |

Federal Supplemental Educational Opportunity Grant (FSEOG)

Like the Federal Pell Grant, the Federal Supplemental Educational Opportunity Grant (FSEOG) is a federally funded program designed to assist students from low-income families. Only students who are eligible to receive the Pell Grant, have an EFC of \$0, and are enrolled at least half time (6 hours a semester) will be considered for the FSEOG. Funding for this program is specific to each university and is very limited, thus not all students who meet the above criteria will be awarded the FSEOG. For the 2009-10 academic year FSEOG awards will range from \$750 to \$1,000 for the full year.

Academic Competitiveness Grant (ACG)

Students who are eligible to receive the Federal Pell Grant may also be eligible to receive the Academic Competitiveness Grant (ACG). To be eligible for the ACG, a student must be enrolled at least half time (6 hours a semester); have completed a rigorous secondary school program of study; and, if a sophomore, must also have at least a 3.00 cumulative GPA. Freshmen are eligible to receive up to a \$750 award and sophomores up to a \$1,300 award. A student can only receive one award at each of these grade levels. Juniors and seniors are not eligible for this award.

The National Science & Mathematics Access to Retain Talent Grant (National SMART Grant)

Students who are eligible to receive the Federal Pell Grant may also be eligible to receive The National Science & Mathematics to Retain Talent Grant (SMART Grant). To be eligible for the SMART Grant, a student must be enrolled at least half time (6 hours a semester); majoring in physical, life or computer science, engineering, mathematics, technology, or a critical foreign language; and have at least a 3.00 cumulative GPA. Both juniors and seniors are eligible to receive \$4,000 per each grade level. A student can only receive one award at each of these grade levels. Freshmen and sophomores are not eligible for this award.

Stafford Loans

The Federal Direct Stafford loan program allows students to borrow low-cost educational loans from the federal government. To be eligible for a Direct Stafford loan, students must be enrolled at least 6 hours (5 hours for the Graduate College and School of Public Health). Repayment of these loans begins 6 months after students leave school or fall below half time enrollment. There are 2 types of Federal Direct Stafford loans: subsidized and unsubsidized. Subsidized Direct Stafford loans are need-based loans. They are subsidized in that the federal government pays the interest on the loan until repayment begins. Unsubsidized Direct Stafford loans are not need-based. Interest begins accruing from the date of first disbursement. You can choose to pay the interest quarterly while in school, or you can allow it to accumulate and be capitalized when repayment begins.

**Annual Limits for Stafford Loans
(2009/10 academic year)**

| | Subsidized | Combined Annual Maximum (subsidized & unsubsidized) |
|---|------------|--|
| Dependent Undergraduates | | |
| Freshman (1–29 credit hours) | \$3,500 | \$5,500 |
| Sophomore (30–59 credit hours) | \$4,500 | \$6,500 |
| Junior/Senior (60+ hours) | \$5,500 | \$7,500 |
| Independent Undergraduates | | |
| Freshman (1–29 credit hours) | \$3,500 | \$9,500 |
| Sophomore (30–59 credit hours) | \$4,500 | \$10,500 |
| Junior/Senior (60+ hours) | \$5,500 | \$12,500 |
| Graduate & Professional Students | | |
| Graduate | \$8,500 | \$20,500 |
| Pharmacy, Master of Public Health | \$8,500 | \$33,000 |
| Dentistry (DDS & IDP only) | \$8,500 | \$40,500 |

**Aggregate Limits for Stafford Loans
(2009/10 academic year)**

| | Subsidized | Combined Annual Maximum (subsidized & unsubsidized) |
|--|------------|--|
| Dependent Undergraduates | \$23,000 | \$31,000 |
| Independent Undergraduates | \$23,000 | \$57,500 |
| Graduate & Professional Students | | |
| Graduate | \$65,000 | \$138,500 |
| Pharmacy, Master of Public Health, & Dentistry DDS & IDP | \$65,000 | \$224,000 |

Federal Direct Parent PLUS Loan

Parents of a dependent undergraduate student are eligible to borrow under the Federal Direct Parent Loan for Undergraduate Students (PLUS) program, pending credit check approval by the U.S. Department of Education. You must be enrolled at least 6 credit hours to receive a Parent PLUS loan. An approved parent can borrow up to the total cost of attendance (COA) minus all financial aid and other resources received by the student. The PLUS Loan is an unsubsidized loan, meaning the borrower will be charged interest from the time the loan is disbursed until it is paid in full.

Federal Direct Graduate PLUS Loan

Graduate students are eligible to borrow under the Federal Direct Graduate PLUS Loan program, pending a credit check approved by the U.S. Department of Education. You must be enrolled at least 6 credit hours (5 or more for the Graduate College and School of Public Health) to receive the Graduate PLUS loan. The maximum amount that can be borrowed is the cost of attendance minus any other financial aid. The Graduate PLUS Loan is an unsubsidized loan, meaning the borrower will be charged interest from the time the loan is disbursed until it is paid in full.

Federal Perkins Loan

The Perkins Loan is funded by the federal government and awarded to students who show exceptional financial need. Exceptional financial need is defined as those students who have financial need remaining after subtracting the student's Expected Family Contribution (EFC) and all other financial aid/resources from the student's Cost of Attendance. You must be enrolled for at least 6 credit hours (5 or more for the Graduate College and School of Public Health) to receive the Perkins Loan. Unlike Direct Stafford Loans, when you accept a Perkins Loan, you are borrowing from UIC. Funding for the Perkins program is limited and awarded on a first-come, first-serve basis. Due to limited funding in the summer for most other types of financial assistance, most Perkins Loan funds are awarded to students during the summer term. The interest rate for this loan is fixed at 5%.

Federal Work-Study

Federal Work-Study (FWS) is a financial aid program that provides part-time jobs for undergraduate and graduate students with financial need, allowing them to earn money to help pay education expenses. The program encourages community service work and work related to the recipient's course of study. Maximum awards vary from year to year based upon funding.

State**Monetary Award Program (MAP)**

The Monetary Award Program (MAP) Grant is funded by the State of Illinois and administered by the Illinois Student Assistance Commission (ISAC). In order to be eligible, students (and parents, if dependent) must be Illinois residents, be an undergraduate, have completed the FAFSA before ISAC's deadline, and meet ISAC's financial eligibility criteria (generally, having an EFC less than \$9,000). MAP grants are limited based on the number of applicants and funding levels appropriated by the Illinois General Assembly. For this reason students are highly encouraged to file the FAFSA annually by UIC's priority deadline of March 1. For the 2009-10 academic year, MAP awards will range from \$300 to \$4,968 for the full year.

Payment for each term is made according to the equivalent number of credit hours eligible for MAP payment, with the minimum being 3 and the maximum being 15. The following chart details MAP eligibility by term based on credit hours enrolled as of the end of the add/drop period for the fall and spring terms.

| Hours | Approximate Percentage of MAP |
|-------|-------------------------------|
| 15+ | 100% |
| 14 | 93% |
| 13 | 87% |
| 12 | 80% |
| 11 | 73% |
| 10 | 67% |
| 9 | 60% |
| 8 | 53% |
| 7 | 47% |
| 6 | 40% |
| 5 | 33% |
| 4 | 27% |
| 3 | 20% |

Silas Purnell Illinois Incentive for Access (IIA) Program

The Silas Purnell Illinois Incentive for Access (IIA) Program is funded by the State of Illinois and administered by the Illinois Student Assistance Commission (ISAC). To be eligible for IIA, students (and parents, if dependent) must be Illinois residents, have completed the FAFSA in a timely manner, and have an EFC of \$0. IIA grants are limited based on the number of applicants and funding levels appropriated by the Illinois General Assembly. For this reason students are highly encouraged to file the FAFSA annually by UIC's priority deadline of March 1. The IIA grant is a one-time grant of up to \$500 for freshmen enrolled at least half time.

Institutional

The UIC Undergraduate Grant Program (Effective for Students Matriculating Fall 2009 and after)

The University of Illinois at Chicago (UIC) is committed to providing access to higher education and minimizing loan debt for all undergraduate students, by optimizing the positive impact of university supported grants on student retention and graduation while controlling the campus-based financial aid budget. UIC has allocated a portion of its operating budget to provide Illinois residents who are Pell or MAP eligible with supplemental grant aid that will support them to degree completion while attending UIC. There are two levels of grant aid in this program, the UIC Access to Excellence Grant and the UIC Gateway Grant.

The UIC Access to Excellence Grant is awarded to the neediest UIC undergraduates as defined by their eligibility to receive both the Pell Grant and MAP Award. The UIC Access to Excellence Grant in combination with the Pell Grant and the MAP Award will fully fund direct costs (defined as tuition, fees, and books) and will partially fund indirect costs (defined as room and board in UIC-owned housing).

The UIC Gateway Grant is awarded to eligible UIC undergraduates receiving the MAP Award, but not receiving the Pell Grant. The UIC Gateway Grant award is \$1,500 per year.

Eligibility for the UIC Access to Excellence Grant

Students must be enrolled at UIC and must complete a Free Application for Federal Student Aid (FAFSA) each academic year. All FAFSA applicants will be considered for the UIC Undergraduate Grant Program; no other financial aid application is necessary.

In order to qualify for the maximum grant aid, students must also meet the following 8 criteria:

- Must be a U.S. citizen or permanent resident
- Must have demonstrated financial need each semester
- Must qualify to receive the Illinois Monetary Award Program (MAP) each semester
- Must qualify to receive the Federal Pell Grant each semester
- Must qualify for Illinois resident tuition
- Must enroll for at least 6 credit hours each semester
- Must maintain satisfactory academic progress each semester
- Must have not completed their degree requirements for graduation

The UIC Access to Excellence Grant will support up to 135 credit hours earned toward a degree at UIC or support the number of credit hours required to complete a degree program plus 15 additional UIC credit hours, whichever applies.

Eligibility for the UIC Gateway Grant

The UIC Gateway Grant of \$1,500 per year is awarded to those students receiving the MAP Award, but are not eligible for the Pell Grant. Students awarded the UIC Gateway Grant must meet all criteria listed for the UIC Access to Excellence Grant award with the exception of receiving the Pell Grant.

The UIC Gateway Grant will support up to 135 credit hours earned toward a degree at UIC or support the number of credit hours required to complete a degree program plus 15 additional UIC credit hours, whichever applies.

Applying for Other Assistance

Many private scholarships are offered each year to college students by a variety of corporate, professional, trade, government, civic, religious, social, and fraternal organizations. Applying for such scholarships can be time consuming, so it's important to start as early as possible. A quick way to start a scholarship search is to utilize specialized scholarship search sites on the Web.

Several for-profit companies throughout the United States offer similar computerized search services, often charging fees. The University of Illinois at Chicago OSFA does not recommend these services and suggests you thoroughly investigate them before submitting any fees to them.

The OSFA does post all notifications received regarding external scholarships on the scholarship board in our office. The board is updated as notifications are received, so it is recommended that students check the scholarship board in the OSFA periodically throughout the year.

Academic Standing

This section defines a number of standards according to which students' academic performance and progress are measured. Students need to be familiar with these standards and keep them in mind as they review the degree requirements and policies outlined in the catalog.

Standards Impacting Academic Performance and Progress

Semester Hours

A semester hour is the University's unit of academic credit. During the fall and spring semesters, a University semester hour represents one classroom period of fifty minutes weekly for one semester in lecture or discussion or a longer period of time in laboratory, studio, or other work. For example, a three-semester-hour lecture/discussion course could meet 3 times a week for 50 minutes each period or 2 times a week for 75 minutes each period. In either case, a student attends the lecture/discussion course for an equivalent amount of time each week during a 15-week semester. A minimum of two 50-minute periods each week per credit hour is required for lab, practicum, or clinical activity. It is expected that students will spend at least the equivalent of two classroom periods of outside preparation for one classroom period per week of lecture or discussion. Those courses in which semester hours exceed contact hours may require additional readings, assigned papers, or other course work.

To convert semester hours to quarter hours multiply by 1.5; to convert quarter hours to semester hours multiply by 2/3. For example, 30 semester hours are equivalent to 45 quarter hours.

Class Standing

The number of semester hours earned by the student determines class standing within the University.

| Semester Hours Earned | Class Standing |
|-----------------------|--------------------|
| 1–29 | Freshman standing |
| 30–59 | Sophomore standing |
| 60–89 | Junior standing |
| 90 and above | Senior standing |

The University may use class standing to determine a student's eligibility for receiving certain kinds of financial aid and scholarships, applying for some degree programs, enrolling in particular courses, and evaluating progress.

Credit by Examination

Students may establish credit toward an undergraduate degree through the following examinations:

- ACT English/SAT Verbal
- Advanced Placement (AP)
- International Baccalaureate (IB)
- College-Level Examination Program (CLEP)
- Proficiency Examinations for Enrolled Students

Students must submit official grade reports/examination results to the Office of Admissions before credit can be awarded. UIC will not award transfer course credit based on another institution's evaluation of test results.

ACT English/SAT Verbal

UIC will award three hours of passing credit for ENGL 160 for an ACT English subscore of 27 or more or an SAT Verbal score of 610 or more.

Advanced Placement (AP)

UIC will award credit on the basis of scores earned on the Advanced Placement Examinations administered by the College Board as indicated below:

| Exam | Score | Course Equivalent |
|------------------------------|-------|--|
| Art History | 4–5 | AH 110 (4 hours) |
| | | AH 111 (4 hours) |
| Biology | 3–5 | BIOS 100 (5 hours) |
| | | BIOS 101 (5 hours) |
| Calculus AB | 3–5 | MATH 180 (5 hours) |
| Calculus BC | 2 | MATH 180 (5 hours) |
| | 3–5 | MATH 180 (5 hours) MATH 181 (5 hours) |
| Chemistry | 4–5 | CHEM 112 (5 hours) |
| | | CHEM 114 (5 hours) |
| Chinese Language and Culture | 3 | CHIN 103 (4 hours) |
| | 4–5 | CHIN 103 (4 hours) |
| | | CHIN 104 (4 hours) |
| Classics Latin Literature | 3–5 | LAT 299 (3 hours) |
| Classics Vergil | 3–5 | LAT 299 (3 hours) |
| Computer Science A | 4–5 | MCS 260 (4 hours) |
| Computer Science AB | 3 | MCS 260 (4 hours) |
| | 4–5 | MCS 260 (4 hours) |
| | | MCS 360 (4 hours) |
| Economics Macro | 4–5 | ECON 121 (3 hours) |
| Economics Micro | 4–5 | ECON 120 (3 hours) |
| English Language & Comp | 4–5 | ENGL 160 (3 hours) |
| English Literature & Comp | 4–5 | ENGL 101 (3 hours) |
| Environmental Science | 4–5 | EAES 107 (5 hours) |
| French | 3 | FR 103 (4 hours) |
| | 4–5 | FR 103 (4 hours) |
| | | FR 104 (4 hours) |
| German | 3 | GER 103 (4 hours) |
| | 4–5 | GER 103 (4 hours) |
| | | GER 104 (4 hours) |
| Gov't & Politics—Compar. | 4–5 | POLS 130 (3 hours) |
| Gov't & Politics—US | 4–5 | POLS 101 (3 hours) |
| History—European | 4–5 | 6 hours of History |
| History—US | 4–5 | HIST 103 (3 hours) |
| | | HIST 104 (3 hours) |
| History—World | 4–5 | HIST 100 (3 hours) |
| | | HIST 101 (3 hours) |
| Music—Listening & Lit | 3–5 | MUS 100 (3 hours) |
| Music—Theory | 3–5 | MUS 101 (3 hours) |
| | | MUS 102 (3 hours) |
| | | MUS 103 (1 hour) |
| | | MUS 104 (1 hour) |

Advanced Placement (AP) (continued)

| Exam | Score | Course Equivalent |
|------------------------|----------------------------------|--|
| Physics B Exam | 4–5 | PHYS 105 (4 hours) PHYS 106 (1 hour) PHYS 107 (4 hours) PHYS 108 (1 hour) |
| Physics C: Elec & Mag. | 4–5 | PHYS 142 (4 hours) |
| Physics C: Mechanics | 4–5 | PHYS 141 (4 hours) |
| Psychology | 4–5 | PSCH 100 (4 hours) |
| Spanish—Language | 3 | SPAN 114 (4 hours) |
| | 4 | SPAN 200 (3 hours) |
| | 5 | SPAN 200 (3 hours) SPAN 201 (3 hours) |
| Spanish—Literature | 3 | SPAN 114 (4 hours) |
| | 4 | SPAN 210 (3 hours) |
| | 5 | SPAN 210 (3 hours) SPAN 211 (3 hours) |
| Statistics | Credit awarded varies by college | |

International Baccalaureate Exams (IB)

UIC will award credit on the basis of scores earned on the International Baccalaureate examinations as indicated below:

| Exam | Score | Course Equivalent |
|----------------------------|-------|---|
| Anthropology: | | |
| Higher Level | 6–7 | ANTH 103 (4 hours) |
| Subsidiary Level | 6–7 | ANTH 103 (4 hours) |
| Biological Science: | | |
| Higher Level | 6–7 | BIOS 100 (5 hours) BIOS 101 (5 hours) |
| Chemistry: | | |
| Higher Level | 6–7 | CHEM 112 (5 hours) CHEM 114 (5 hours) |
| Classics: | | |
| Higher Level | 6–7 | LAT 101 (4 hours) LAT 102 (4 hours) LAT 103 (4 hours) LAT 104 (4 hours) LAT 299 (3 hours) |
| Subsidiary Level | 6–7 | LAT 101 (4 hours) LAT 102 (4 hours) LAT 103 (4 hours) LAT 104 (4 hours) |
| Economics: | | |
| Higher Level | 6–7 | ECON 120 (3 hours) ECON 121 (3 hours) |
| English: | | |
| Higher Level | 6–7 | ENGL 101 (3 hours) |
| Subsidiary Level | 6–7 | ENGL 101 (3 hours) |
| French Lang B: | | |
| Higher Level | 5–7 | FR 201 (3 hours) FR 231 (3 hours) |
| Subsidiary Level | 5–7 | FR 201 (3 hours) FR 231 (3 hours) |

Geography:

| | | |
|------------------|-----|--|
| Higher Level | 6–7 | GEOG 101 (3 hours) GEOG 151 (4 hours) |
| Subsidiary Level | 6–7 | GEOG 100 (3 hours) GEOG 141 (3 hours) |

German:

| | | |
|------------------|-----|--|
| Higher Level | 4–5 | GER 211 (3 hours) |
| | 6–7 | GER 211 (3 hours) GER 318 (3 hours) |
| Subsidiary Level | 4–5 | GER 211 (3 hours) |
| | 6–7 | GER 211 (3 hours) GER 318 (3 hours) |

History:

| | | |
|--------------|-----|--|
| Higher Level | 6–7 | HIST 101 (3 hours) HIST 103 (3 hours) HIST 104 (3 hours) |
|--------------|-----|--|

Music:

| | | |
|---------------------------|-----|---|
| Higher Level | 5–7 | MUS 100 (3 hours) MUS 101 (3 hours) MUS 103 (1 hour) MUS 107 (3 hours) |
| Subsidiary Level Option X | 5–7 | MUS 100 (3 hours) MUS 103 (1 hour) MUS 107 (3 hours) |
| Subsidiary Level Option Y | 5–7 | MUS 100 (3 hours) MUS 101 (1 hour) MUS 107 (3 hours) |

Philosophy:

| | | |
|--------------|-----|--------------------|
| Higher Level | 6–7 | PHIL 100 (3 hours) |
|--------------|-----|--------------------|

Physics:

| | | |
|------------------|-----|--|
| Higher Level | 5–7 | PHYS 141 (4 hours) PHYS 142 (4 hours) |
| Subsidiary Level | 5–7 | PHYS 121 (4 hours) |

Psychology:

| | | |
|------------------|-----|--------------------|
| Higher Level | 5–7 | PSCH 100 (4 hours) |
| Subsidiary Level | 5–7 | PSCH 100 (4 hours) |

Spanish A:

| | | |
|--------------|-----|--------------------|
| Higher Level | 6–7 | SPAN 210 (3 hours) |
|--------------|-----|--------------------|

Spanish B:

| | | |
|--------------|-----|--------------------|
| Higher Level | 6–7 | SPAN 201 (3 hours) |
|--------------|-----|--------------------|

College-Level Examination Program (CLEP)

UIC may award credit on the basis of scores earned on the College Level Examination Program (CLEP). A maximum of 30 semester hours of credit on the basis of CLEP examination scores may be applied toward degree requirements.

Examinations may provide credit if approved by the appropriate college and department. Prior written approval from the college and, where appropriate, the relevant department is required. Individual colleges may limit credit allowed. Students should consult their college and/or department for permission and required scores before taking any CLEP examination.

The College of Liberal Arts and Sciences requires a minimum score of 65 for all examinations.

CLEP tests are regularly administered on campus by the Office of Testing Services. For further information on CLEP examinations, call the UIC Testing Services at (312) 996-3477.

Proficiency Examinations for Enrolled Students

Proficiency examinations may be offered in some subjects. Students should consult with the department to determine which examinations are offered. Before taking any proficiency examination, the student must obtain the consent of the college dean as well as the head or chairperson of the department concerned. Proficiency examinations in foreign languages are restricted to post-intermediate levels. No proficiency examinations are given at the introductory or intermediate levels of a foreign language.

Proficiency examinations in more advanced undergraduate subjects may also be given if the head or chairperson of the department recommends and the dean of the college concerned approves it. There is no fee for these examinations.

The grade given in proficiency examinations is either “pass” or “fail” but a student does not receive a “pass” unless at least the equivalent of a C is earned. Neither grade is included in the computation of the student’s average; no official record is made of a “fail.”

A student who passes a proficiency examination is given the amount of credit toward graduation regularly allowed in the course if the course is acceptable in the curriculum. However, if such credit duplicates credit counted for admission to the University, it is not given.

Proficiency examinations are given only to:

1. Persons who are in residence at UIC.
2. Persons who, after having been in residence, are currently registered in a Guided Individual Study course at the University of Illinois.
3. Persons who, though not currently enrolled, are degree candidates at the University and need no more than 10 semester hours to complete their degree requirements.
4. Persons enrolled at one University of Illinois campus who wish to take an examination being given at another campus. They must secure an Application for Concurrent Registration from the Office of Records and Registration.

Proficiency examinations may not be taken:

1. By students who have received credit for more than one term of work in the subject in advance of the course in which the examination is requested.
2. To raise grades or to improve failures in courses.
3. In a course the student has attended as a listener or as a visitor.

Credit earned through proficiency examinations neither applies toward nor interrupts the enrollment residence requirement. See *Enrollment Residence Requirement* in the *University Degree Requirements, Graduation, and Commencement* section of the catalog.

Grading and the Grade Point System

Effective Fall 2004, UIC adopted a 4.00 grade point system, where 4.00 = A. See chart below:

| Grades | Equivalent | Grade Points per Hour |
|--------|------------------|-----------------------|
| A | Excellent | 4 |
| B | Good | 3 |
| C | Average | 2 |
| D | Poor but passing | 1 |
| F | Failure | 0 |

Symbols

The following symbols are used in grading, but are not included in computation of the grade point average.

- W** **Withdrawn.** Withdrawn from the course without penalty (no grade).
- DFR** **Deferred.** Grade deferred (graduate courses, independent study courses, and certain study-abroad courses only).
- S** **Satisfactory; U—Unsatisfactory.** Used in graduate thesis research courses, graduate courses given for zero credit, and some undergraduate courses for which this grade is specifically approved.
- S*** **Satisfactory** Credit earned does not apply toward earned hours or graduation.
- CR/NC** **Credit/No Credit.** Used only in courses taken under credit/no credit option. See *Credit/No Credit* heading in this section of the catalog.
- NR** **Not Recorded.** Not recorded grade. The symbol is automatically generated when, for a variety of reasons, no grade is submitted by the instructor.
- I** **Incomplete.** Course work is incomplete when a student fails to submit all required assignments or is absent from the final examination. Incomplete course work will normally result in a failing grade if it is not completed within the designated time limit. The I may be assigned in lieu of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all course work due to unusual circumstances that are beyond personal control and are acceptable to the instructor; and (c) the student presents these reasons prior to the time the final grade roster is due.
- The instructor must submit an Incomplete Grade Assignment report when entering final grades for the I to be recorded. This report is a contract for the student to complete the course work with that instructor or one designated by the department executive officer in the way described and by a time indicated on the report. In resolving the I, the student may not register for the course a second time, but must follow the procedures detailed on the report.
- An I must be removed by the end of the student’s first semester or summer session in residence subsequent to the incurrence of the I or, if not in residence, no later than one calendar year subsequent to the incurrence. When the student submits the course work, the instructor will grade it and change the I to the appropriate grade.
- If an undergraduate student fails to meet the stated conditions, an F will be assigned for the final grade.
- PS** **Pass.** Pass is used for proficiency and special examinations.
- F** **Failure**

Credit/No Credit Option

Students may elect to take a course under the credit/no credit option according to the following provisions:

1. The student must be in good standing as defined by the chosen college.
2. A maximum of 21 semester hours of credit may be earned at UIC under the credit/no credit option. If a student withdraws from a credit/no credit course before the end of the last day of instruction in the sixth week of the term, the credit hours the course carries will not count toward the total of 21 authorized.

3. No more than one course per term may be taken under this option.
4. This option may not be used in any course required for the major, including prerequisite and collateral courses.^a
5. The option may not be used for English 160 and 161.
6. The credit/no credit option in a course must be elected by the end of the tenth day of instruction of the term.
7. The credit/no credit option in a course cannot be revoked after the close of the tenth day of instruction in the term.
8. A college or school may by action of its faculty institute a more restrictive policy for any or all of the above provisions.
9. Instructors are not informed that the option has been elected but assign a letter grade in the usual manner. The Office of Admissions and Records retains a record of that letter grade in the student records system, but it is not entered on the student transcript, except as hereafter provided.
10. For courses taken under the credit/no credit option, a grade of CR is recorded on the transcript if a letter grade of A, B, C, or D is earned. If the letter grade F is assigned, an NC is entered on the transcript. Grades of I and DFR are replaced by CR or NC upon completion of the courses or converted to NC if the course completion deadline for an I is not met.
11. The grades of CR and NC are not used in the computation of the GPA.
12. Grades of CR and NC are final and cannot be reconverted to letter grades, except under the following circumstances. If, during the student's final term prior to graduation, it is found that one or more of the courses needed to satisfy major field requirements were completed under the credit/no credit option at UIC (prior to the declaration of the major or prior to intercollegiate or intercurricular transfer), the student may elect that a sufficient number of CR grades be replaced by the originally assigned letter grades to meet major requirements. Only the minimum number of reconversions will be made. If such a minimum can be met by more than one selection of reconversions, the student may indicate a preference. This same policy applies in the case of any additional restrictions instituted by a college or school under Provision 8.
13. Students must apply at their college office no later than the tenth day of the term (first Wednesday of Summer Session 1 or first Friday of Summer Session 2) to have a course designated for credit/no credit grading option.

^a Collateral courses are those courses taken outside the major department that are essential to the major and are defined as such by each college.

Calculating the Grade Point Average (GPA)

Take the grades for each course taken and determine the grade points per hour: A=4, B=3, C=2, D=1, F=0.

- Multiply the grade points per hour for each course by the number of semester hours for the course to get the grade points for each course.
- Add the grade points for each course to get the total number of grade points for the semester.
- Add the semester hours taken for each course to get the total number of semester hours.

- Divide total number of grade points for the semester by the total number of semester hours taken.

The following example illustrates how to calculate the GPA.

| Grades | Grade Points/ Hour | | Semester Hours Attempted | | Grade Points/ Course |
|------------------------|-----------------------|---|-----------------------------|---|-------------------------|
| A | 4 | X | 4 | = | 16 |
| B | 3 | X | 3 | = | 9 |
| C | 2 | X | 5 | = | 10 |
| D | 1 | X | 3 | = | 3 |
| F | 0 | X | 2 | = | 0 |
| Semester Totals | | | 17 | | 38 |

The GPA for the example above is 38 divided by 17 or 2.23 on a 4.00 scale (2.23/4.00).

Note: Courses numbered 001–099 do not carry credit toward graduation. Grades for these courses are not calculated in the GPA.

Time Limit on Grade Changes

Changes/corrections to final grades are permitted up to two years after recording the final grade in a student's academic record so long as the course instructor, department chair/head, and college office approve of the change/correction. No grade changes/corrections are allowed after the two-year time limitation. Colleges are permitted, however, to adopt a more restrictive time limit policy. Students should check with their colleges concerning the time limit policy.

Full- and Part-Time Enrollment Status

| Semester Hours Taken | Academic Term | Enrollment Status |
|-------------------------|---------------------------|----------------------------|
| 12–18 ^a | Fall and spring semesters | Full-time status |
| 6–12 ^a | Summer session | Full-time status |
| 9–11 | Fall and spring semesters | Three-quarters-time status |
| 5 | Summer session time | Three-quarters-status |
| 6–8 | Fall and spring semesters | Half-time status |
| 3–4 | Summer session | Half-time status |
| 5 or less | Fall and spring semesters | Less than half-time status |
| 2 or less | Summer session | Less than half-time status |

^a Enrollment in more than 18 semester hours in fall or spring, or more than 12 semester hours in summer is considered overload. Overload requires permission from the student's major college.

The University uses full- and part-time enrollment in the assessment of tuition and fees. It is also used in determining eligibility for financial aid and the rules governing satisfactory academic progress for renewal of financial aid. In addition, some degree programs require or recommend full-time enrollment.

Probation and Dismissal Rules

The following are minimum UIC undergraduate probation and dismissal criteria that apply to both full-time and part-time students. Colleges or programs may have higher standards.

Probation Rules

1. A student not currently on academic probation will be placed on academic probation at the end of any term in which the student earns less than a 2.00/4.00 grade point average. This rule applies even for the student with a cumulative GPA of 2.00/4.00 or higher. For such a student the probation serves as a warning.
2. An entering transfer student, admitted by petition with a cumulative GPA lower than 2.00/4.00, will be immediately placed on probation.
3. A student readmitted by petition with a UIC GPA lower than 2.00/4.00 will be immediately placed on probation.
4. A student readmitted by petition whose combined cumulative GPA from UIC and other institutions is lower than 2.00/4.00 will be immediately placed on probation.

A student on academic probation who earns a GPA of at least 2.00/4.00 in a given term will be removed from probation, provided the student's cumulative GPA in all work taken at UIC is at least 2.00/4.00. Further, for the student with transfer credit, the combined average of the student's transfer credit and UIC course work must also be at least a 2.00/4.00.

A student currently on academic probation will be continued on academic probation when the one of the following occurs:

1. The student meets the GPA required by the conditions of his or her probation but does not raise the cumulative UIC GPA to at least 2.00/4.00; or
2. The student meets the GPA required by the conditions of his or her probation but does not raise the combined average of the student's transfer credit and UIC course work to at least 2.00/4.00.

The dean of the student's college determines the conditions of probation. In addition to specifying the GPA, the dean may require the completion of specific courses, may limit the number of hours for which the student registers, and may exclude the student from taking certain courses while on probation.

Dismissal Rules^a

1. A student on academic probation will be dismissed from the University in any term in which the student fails to meet the grade point average required by the probation and in which the cumulative GPA in courses taken at UIC is less than 2.00/4.00.
2. A student on academic probation will be dismissed from the University in any term in which the student fails to meet the GPA required by the probation and in which the combined transfer and UIC grade point average is less than 2.00/4.00.
3. A student who fails to make progress toward a degree may be dismissed. Examples include failure to complete required courses, accumulation of an excessive number of Incomplete grades, failure to earn credit in any semester, failure to maintain a C average in the major discipline.
4. In addition to the probation and dismissal rules above, a college or a school may impose criteria for dismissing a student from a curriculum or college without prior probation, may impose other terms of probation, and may specify a minimum lapse of time between a dismissal action and consideration of a petition for readmission. The dismissal rules may be waived when, in the judgment of the student's college, the student's overall record warrants such action.

^a In other University publications Dismissal Rules are sometimes referred to as Drop Rules.

Academic Planning and Progress

UIC entrusts its students with the responsibility of managing their academic planning and progress. The University expects students to follow the degree requirements and academic policies outlined in this publication. Students choose their degree programs, select and register for courses each term, and track their progress toward degree completion. In return, UIC provides students with a range of resources that are useful for academic planning, completing course requirements, and remaining on track for graduation. Many of these academic planning resources can be accessed online using *UIC Web for Student* <http://ossorawebprod2.admin.uillinois.edu/webforstudent/wfs3.asp>.

Essential Online Resources for Students

u.select (formerly CAS)

u.select works in conjunction with the University degree audit reporting system (DARS) to create transfer planning guides. u.select reports assist prospective students by providing accurate information about how transfer credit is applied to specific UIC degree programs.

Students can create u.select accounts at <https://uic.transfer.org/cas/index.jsp>.

Current UIC students should contact their college advising office for information on transfer credit restrictions prior to enrolling in courses at other institutions.

DARS Web

The Degree Audit and Reporting System (DARS) produces a degree audit report intended for use within the University to facilitate advisement and to monitor progress toward program completion. The DARS Report identifies all components of the student's chosen degree program, indicates how requirements have been met, and provides lists of approved courses from which the student may choose to fulfill remaining requirements.

Students should review a DARS Report each semester through *DARS Web for Student* https://darsweb.admin.uillinois.edu/darswebstu_uic/servlet/EASDarsServlet and consult with an advisor each semester to select courses for the following semester.

Online Catalog, Course Descriptions, and Schedule of Classes

The 2009–2011 *Undergraduate Catalog* is online at <http://www.uic.edu/ucat/catalog/> in PDF and html format. The PDF version of the catalog is for archival and printing purposes. The html version is updated regularly as degree programs, courses, and requirements change.

Course descriptions are online <http://www.uic.edu/ucat/courses/>.

The *Schedule of Classes* is also online <http://ossorawebprod2.admin.uillinois.edu/webforstudent/UICScheduleofClasses.asp>.

Planning for Academic Success

Planning for academic success begins early. To earn a degree from the University of Illinois at Chicago, students need to make thoughtful decisions about course selection each term; fulfill the degree requirements outlined by the University, college, and, if applicable, the department or school; and demonstrate competence in all courses according to University and college standards.

New students are often surprised by the transition to college academic life. For the first time, students are wholly

responsible for their own success. Going to classes, doing the work, and understanding the concepts are up to the student. Selecting courses, meeting degree requirements, and following academic policies are the students' responsibility. Asking questions, identifying problems, and seeking advice or help when necessary are a student's prerogative. Students will find knowledgeable, caring faculty and advisors across campus ready to help with these and other concerns; all they have to do is ask.

Many first-year students are undecided about a major. It is possible to be undecided and make progress toward a degree, but it requires careful planning with the help of an advisor. Similarly, a large number of students discover along the way that they would like to change majors. UIC offers a wide array of undergraduate degree programs to satisfy most academic interests. Students should discuss the options with an advisor before making a final decision. Advisors can help students identify degree programs of interest, entrance requirements, and degree requirements that have already been met.

Lots of students begin college with the goal of graduating in four years. To graduate in four years, students need to take at least 15 hours per semester. Whether or not a course load of 15 or more semester hours is manageable depends on several factors, including the difficulty of particular courses and degree programs, outside commitments like work and family, and individual learning styles. Academic advisors can help students set reasonable goals based upon individual circumstances. Before making the decision to extend graduation beyond four years, students should also meet with a financial aid counselor to discuss the impact of such a decision on the total cost of education and financial support.

Students should keep the following tips in mind as they plan for academic success:

- Start a file folder to hold all University correspondence, DARS Reports, academic planning worksheets, and other important documentation pertaining to enrollment at UIC.
- Meet with an advisor once a semester.
- Attend instructors' office hours to ask questions about lecture material, course readings, and assignments.
- Use the University Library system to complete course requirements and build important research skills.
- Take advantage of tutoring.
- Go to every class.
- Be realistic about academic goals.
- Consider all the factors impacting a manageable course load as well as the four-year tuition guarantee and plan accordingly. For instance, plan on summer session courses if a course load of 15 or more hours per semester is too much.

Academic Advising

Academic Advising Mission Statement

The mission of academic advising at the University of Illinois at Chicago is to ensure successful undergraduate educational experiences. Academic advising is centered in the colleges. The larger advising network assists students with making the transition to college life and guides their informed decisions about the academic priorities, progress, and goals integral to completing degrees and preparing for careers.

Identifying the Advisor and Scheduling Appointments

Academic advisors are faculty members and professional staff who assist students with course selection, scheduling, degree requirements, administrative requirements, the interpretation of rules and regulations, and the utilization of campus resources. Academic advising is available to all UIC students. Academic advising at UIC is decentralized, which means that it occurs in the major college or department. Students can learn more about academic advising at UIC by visiting the Undergraduate Advising Resource Center Web site <http://advising.uic.edu>.

Students should plan to meet with an academic advisor each term. The following guidelines are offered to help students make the most of advising appointments:

- Schedule appointments well in advance of registration.
- Examine degree requirements, course descriptions, and the *Schedule of Classes* prior to the advising appointment.
- Develop a tentative schedule before meeting with an advisor.
- Ask for clarification on issues pertaining to scheduling, degree requirements, course selection, academic policies, or anything else that may impact academic progress.
- Review a DARS Report outlining progress toward the degree at each advising appointment.
- Keep track of progress toward the degree and review records with the advisor. Advisors assist students with this process, but it is the students' responsibility to make sure that all degree requirements are met.
- Be aware of Change of Course Schedule (Drop/Add) rules and rules on Withdrawal from classes.
- Stay informed of rules governing satisfactory academic progress for financial aid, which may be found in the *Financial Aid* section of the catalog. Do not drop courses or withdraw without considering these rules and consulting a financial aid advisor if receiving financial aid.
- Remember that advisors provide students with understanding and clarification of the options available, but students make their own decisions.
- Make the best possible decisions by consulting the catalog, a DARS Report, and an advisor prior to course selection, registration, and enrollment.

Students should consult their college section of the catalog for specific information on academic advising through the college or department.

University Library

<http://www.uic.edu/depts/lib>

The University Library of the University of Illinois at Chicago, consisting of the Richard J. Daley Library, the Library of the Health Sciences, the Science Library, and a wide variety of electronic resources available to UIC users online, provides collections for students in all curricular areas, for graduate programs, and for faculty research.

Library holdings as of June 2007 numbered about 2,350,000 books and bound periodicals, 785,000 government publications, 195,000 maps, and an extensive collection of microform materials. The University Library currently receives more than 35,000 serial titles. Students have full access to books and other materials shelved on the open stacks. In the library and through the campus network, students have access to more than 25,000 full-text electronic journals, online indexing services, and other electronic resources.

The University Library features an online public access catalog (UICCAT) and I-Share, a statewide circulation and resource-sharing network which provides access to more than 32,000,000 catalogued items held by 76 academic libraries in Illinois. With an Infopass, ID and an appointment, students can enter other academic and private libraries in the Chicago area.

Richard J. Daley Library

801 South Morgan Street

The Richard J. Daley Library contains books, journals, periodicals, and specialized materials in the humanities, arts, social sciences, mathematics, and engineering. Users may obtain assistance at the following service points: Circulation, Reference, Interlibrary Loan, Map Section, Microforms, Reserve, and Special Collections. Library hours are posted in all facilities.

In addition to the general collections housed in the open stacks, there are a number of specialized collections available to users. The reference collection includes encyclopedias, handbooks, indexes, bibliographies, and specialized reference works. The microforms collection contains nearly 4,000,000 items. Assistance in the use of microforms is available at the Microforms Desk. Required readings for classroom assignments can be obtained at the Reserve Desk or, for some courses, online through UICCAT. Current issues of selected periodicals are housed in the Reserve Reading Room. Its collection of videotapes and DVDs, supplemented by external sources, supports academic programs and classroom instruction. The Documents Department is a U.S. Government Depository Library and also houses United Nations and Illinois state and municipal documents, and provides reference service for these materials. The Map Section, part of the Documents Department, is a government depository for U.S. Geological Survey and U.S. Army maps.

The Special Collections Department contains materials that, because of age, condition, or rarity, require special care and maintenance. Department strengths include materials relating to the history and development of the city of Chicago, the Jane Addams Memorial Collection, the Lawrence J. Gutter Collection of Chicagoana, and the Corporate Archives of the Chicago Board of Trade. The department also maintains the University Archives, the official records of the University.

Library of the Health Sciences

1750 West Polk Street

The Library of the Health Sciences (LHS) contains collections supporting teaching, research, and clinical programs in applied health sciences, dentistry, medicine, nursing, pharmacy, and public health.

Science Library

3500 Science and Engineering South (SES)

The Science Library houses monographs, periodicals, and reference works in astronomy, biology, chemistry, geology, and physics. The Science Library holds the major abstracting and indexing services in these subjects.

Academic Computing and Communications Center

Client Services Office

2267 Science and Engineering Laboratories (SEL)

(312) 413-0003

consult@uic.edu

<http://www.accc.uic.edu>

The Academic Computing and Communications Center (ACCC) supports the educational and research needs of the UIC community by providing a variety of computing and communications resources. All registered students, regardless of their course of study, have ready access to e-mail, the Internet, public microcomputers, and, if they wish, accounts on Unix servers. Students may use the ACCC facilities for e-mail, writing papers, online research, resumes, publishing personal Web pages, or just learning more about computers and computing in general. For students living in the UIC residence halls, the ACCC provides telephone service and both wired and wireless Internet connections. The ACCC's new Softphone system gives you a personal telephone number that does not change even if you change rooms. Softphone calls can be forwarded to ring on any other telephone and Softphone voicemail can be forwarded your UIC e-mail account.

The ACCC has extensive documentation, information on the ACCC's free seminars on a variety of topics, and access to other informational sources and services on the ACCC Web pages <http://www.accc.uic.edu>. The ACCC's UIC-Wireless network is now in all residence halls and most buildings on campus. Bring your own laptop to campus and use it with UIC-Wireless or go to an ACCC public microcomputer lab and use an ACCC personal computer. Public microcomputer laboratories are available throughout the campus, including locations in:

- Art and Architecture (AA)—845 West Harrison Street, Rooms B 120 and 2312
- Behavioral Sciences Building (BSB)—1007 West Harrison Street, Rooms B001 and 4133
- Benjamin Goldberg Research Center (BGRC)—1940 West Taylor Street, Rooms 105
- Education, Performing Arts & Social Work (EPASW)—1040 West Harrison Street, Room L270
- James J. Stukel Towers (JJST) (Residents Only)—718 West Rochford Street, Room 214
- Marie Robinson Hall (MRH) (Residents Only)—811 West Maxwell Street, Room 156
- Richard J. Daley Library (LIB)—801 South Morgan Street, Room 1-444
- School of Public Health and Psychiatric Institute (SPHPI)—1601 West Taylor Street, Room B34
- Science and Engineering Laboratories (SEL)—950 South Halsted Street, Rooms 2249F, 2058, 2263, and 2265
- Science and Engineering Offices (SEO)—851 South Morgan, Rooms 1200 and 430
- Science and Engineering South (SES)—645 West Taylor Street, Rooms 201, 205B, and 205C
- Student Residence Commons (SRC)—700 South Halsted Street, Room 2027
- Student Residence Hall (SRH) (Residents Only)—818 South Wolcott Street, Room 317
- Student Services Building (SSB)—1200 West Harrison Street, Room 2300
- Thomas Beckham Hall (BKH) (Residents Only)—1250 South Halsted Street, Rooms 181 and 183
- UIC Student Center East (SCE)—750 South Halsted Street, Rooms 401 and 408

All the labs are connected to the Internet and have access to a wide variety of software, including word processors, spreadsheets, database management, graphics and CAD, statistical packages, programming languages, Web publishing, Web browsing, and remote login and file transfer. All the labs have convenient printers, but you can print your job elsewhere if you wish. Most of the public labs have wheelchair-accessible desks. Labs located in the two main facilities (SEL and BGRC) are open 24 hours. Students wishing to use 24-hour facilities in SEL and BGRC should have their university i-card authorized for after hours building entry; stop by the Client Services Office to apply. See "Public Labs-Hours and Locations" on the Web <http://www.accc.uic.edu/pclabs/> for lab location, open hours, and current status.

No monetary charge is made for access to, or the use of, the ACCC public facilities, except Res-Net Internet connections and telephones in the student residence halls as explained below. However, a quota does apply to the use of ACCC printing services. Printing is free until the allowed quota is reached, after which a small charge per output page will apply. Charges are also made for the purchase of some of the software packages that the ACCC distributes under University site-license agreements at the University of Illinois online software Webstore <http://webstore.illinois.edu/>.

A number of ACCC Unix servers offer a wide array of services, including e-mail, personal Web space, class schedule information, online calendar and scheduling service, phonebook listings, specialized bulletin boards, and news services. The ACCC 64-compute node Beowulf cluster, argo, provides an environment for faculty and faculty-sponsored students to run computationally intensive programs. The ACCC's high-speed UIC campus-wide computer communications network ties servers, personal computers, local area networks (LANs), and distributed printers to each other, to the ACCC's Unix servers, to other computer systems and networks at UIC and on the Internet. The UIC campus network includes UIC-Wireless, a wireless network located in the public areas of the campus and in all the campus residence halls. For a small monthly fee, students living in campus residence halls may obtain personal Res-Net high-speed Internet connections, wired or wireless, as well as access to the same software available in the public computing labs to use in their room. The ACCC distributed printing system is also generally accessible 24 hours daily. The ACCC Networking Web page has more information; there is a link on the ACCC home page.

Electronic mail, freely available to all registered students, allows the exchange of information across campus and around the world. The ACCC's primary e-mail service, a cluster of Unix machines collectively called mailserv, is only used for e-mail. It has much larger online disk quotas. The ACCC also supports e-mail on its general-purpose Unix servers. ACCC e-mail accounts can be accessed both on and off campus in several ways: by logging in to a Unix server and using Pine, from a personal computer using an e-mail client such as Thunderbird, or with a Web browser with Webmail <http://webmail.uic.edu>. Students may choose to forward their UIC e-mail to an existing outside e-mail address by entering that address on the e-mail forwarding Web link on the ACCC E-mail Web Page, <http://www.accc.uic.edu/home/EMAIL.html>. The ACCC E-mail Web page also has more information on e-mail at UIC. Note that students must specifically open an ACCC e-mail account, preferably on mailserv, to use ACCC e-mail. Go to the ACCC Accounts page <http://www.accc.uic.edu/home/ACCTS.html> and select the "Open an ACCC Account" link.

The ACCC's Instructional Technology Lab (ITL) runs a number of instructional servers often used in classes, including Blackboard. The class instructors provide student support on the use of these systems. The ITL also presents a wide variety of free seminars and workshops. For more information, see the ACCC Education Web Page.

In addition to Res-Net Internet connections, the ACCC also provides students in the residence halls with telephone access. The newer type of residence hall telephone is Softphones, but some residence halls have the Resphone system. Visit <http://www.accc.uic.edu/telecom2.0/student/basic.shtml> for a description of the two systems. If your residence hall uses Resphones, be sure to use the Resphone Web page <http://resphone.uic.edu/> to select a password before you make off-campus direct-dialed metropolitan, long distance, and international calls.

To get started, students should go the ACCC Accounts page <http://www.accc.uic.edu/home/ACCTS.html> to activate their UIC netid, select an ACCC common password, and open an ACCC e-mail account if desired. A UIC netid and an ACCC password are required to access many UIC and U of Illinois online and Web services and information sources. For example, UIC netid and an ACCC common password are required to obtain an EnterpriseID (which is required to register), to use the public computing labs, to print in the labs, and to log in to Res-Net in the residence halls. The student's University Identification Number, UIN, either from the i-card or from the UIC admissions letter (listed as the Applicant ID), Social Security Number, and birthday are required to activate your netid.

Summer Session Office

1333 South Halsted Street, Suite 225
(312) 996-9099
Toll-free: (800) 625-2013
summer@uic.edu
<http://www.summer.uic.edu>

The UIC Summer Session Office works to provide both current UIC and visiting students with timely information about the UIC summer sessions. Enrolling in summer courses is a good way for students to catch up or get ahead in their academic studies or manage a heavy course load during the fall or spring. UIC offers students two summer sessions, Summer Session I (4-week session) followed by Summer Session II (8-week session). Students can enroll in courses in one or a combination of both. Although the summer sessions are shorter in length, all courses offered in the summer are worth the same number of semester hours as the same courses in the fall or spring. UIC students interested in taking advantage of summer session courses should discuss their plans with their college advisor.

Continuing UIC Students and Summer Session

Continuing UIC students register for summer in the same way as they do for fall or spring. In the spring, all eligible, continuing UIC students will be notified as to when they can view their Time Ticket online for summer and fall registration. The Time Ticket shows the earliest date and time that a student may register. Students in certain health sciences professional colleges may receive separate information from their colleges. As a general rule, undergraduate students may take up to 12 semester hours over the summer without special approval—either as a combination of courses taken in the 4-week and 8-week sessions, or just courses taken in the 8-week session.

Visiting Students and Summer Session

Visiting students who want to take undergraduate courses at UIC during the summer only and who do not intend to continue at UIC in the fall should first apply using the Summer Session Only application. Please see the Summer Session Web site for further information on admission criteria and the application process. Once the Summer Session Only application has been processed and approved, admitted students will be sent a notice of admission. Summer Session Only students are admitted as nondegree students and are eligible to register for summer classes. Summer Session Only students may register online during Open Registration for summer, (check the Summer Session Web Site for exact dates). As a general rule, Summer Session Only students may take up to 12 semester hours without special approval—either as a combination of courses taken in the 4-week and 8-week sessions, or just courses taken in the 8-week session.

Additional information about the UIC summer session can be found on the Summer Session Web site <http://www.summer.uic.edu> or by contacting the Summer Session Office at (312) 996-9099, or toll-free at (800) 625-2013.

Office of Special Scholarship Programs

2506 University Hall (UH)
(312) 355-2477
<http://www.uic.edu/depts/oa/ssp>

The Office of Special Scholarship Programs (OSSP) assists students with searching and applying for scholarships. Through the services OSSP provides, including a Web site, listserv, scholarship information sessions, and one-on-one advising, students gain the tools necessary to find awards in order to supplement their studies, pursue research in their field, explore cocurricular activities, and enhance their professional development.

With the help of OSSP, UIC students learn to present themselves clearly and effectively for awards that best suit their needs, including nationally-competitive scholarships and fellowships. The staff provides mentoring, interview preparation, and assistance throughout the scholarship process. Most importantly, OSSP offers guidance on communicating goals, challenges, and achievements—a skill that serves students well in their professional careers and beyond.

Each year, UIC students compete for and win some of the most prestigious scholarships and fellowships awarded nationally. Awards that UIC students have won include the Rhodes Scholarship, the Fulbright Fellowship, the Gates-Cambridge Scholarship, the Goldwater Scholarship, the Truman Scholarship, and the NSEP Boren Scholarship, among others. A complete listing of UIC scholarship winners appears on OSSP's Web site.

In addition to the scholarship advising services OSSP provides, the office also houses the Guaranteed Professional Program Admissions (GPPA) Initiative undergraduate coordinator and the Scholarship Association for UIC coordinator.

Study Abroad Office

502 University Hall (UH)
(312) 413-7662
<http://studyabroad.uic.edu>

The UIC Study Abroad Office is committed to making overseas study an integral part of the undergraduate educational experience to better prepare students to meet the challenges and opportunities of a global society.

Students may participate in a summer, semester, or year-long academic experience by selecting from more than 300 programs in over 60 countries on 6 continents across all academic disciplines. UIC offers access to programs in a variety of subjects, from foreign languages, social sciences, and humanities to business, natural science, and engineering. Most institutional and federal financial aid can be applied to study abroad. In addition, the Study Abroad Office administers scholarship funds to support international study and helps students to identify other scholarship opportunities.

With the assistance of a Study Abroad advisor, students are encouraged to choose a program that will enhance their academic, personal, and professional growth. The Study Abroad Office offers only international programs that award academic credit toward an undergraduate degree and monitors program selections to ensure that offerings meet the academic standards and complement the degree programs of the campus. Programs are also selected on the basis of their ability to promote personal growth and intercultural awareness through full exposure to the cultural diversity of the host country. Study Abroad helps to prepare students for the global economy in which they will work, and many programs also include an internship component, giving students an opportunity to gain valuable practical experience working in an international environment.

Reserve Officers' Training Corps

Air Force Reserve Officers' Training Corps (AFROTC) Program

Unit Admissions Officer's contact info:

Email: afrotc@iit.edu

Phone: (312) 567-3525

Website: <http://afrotc.iit.edu>

Address: Air Force ROTC Detachment 195
10 West 31st Street
Chicago, IL 60616

Full-time students who desire to earn, upon graduation, a commission as a second lieutenant in the U.S. Air Force, should consider joining the Air Force ROTC program. Through a crosstown agreement with the Illinois Institute of Technology (IIT) in Chicago, UIC students enroll in Air Force ROTC courses at the IIT main campus. The Department of Aerospace Studies is located on the 2nd floor of the Stuart Building, on the corner of 31st Street and State Street, in Chicago.

Scholarship Opportunities

Qualified applicants may compete for either full-tuition Illinois state scholarships or federal scholarships that pay full or partial tuition and fees, all textbook costs, and monthly subsistence allowance. Noncompetitive scholarship opportunities exist for students studying computer, electrical and environmental engineering, nursing, and certain foreign language majors. Students should contact the Unit Admissions Officer to determine eligibility for competitive or noncompetitive scholarships to help pay tuition while participating in Air Force ROTC.

Attendance

Students who join Air Force ROTC will hold the rank of "cadet." During the fall and spring semesters, all cadets attend the leadership laboratory at IIT on Thursday afternoons. As a freshman or sophomore cadet, students will also attend Thursday afternoon AFROTC classes following leadership lab. Junior and senior cadets attend Air Force ROTC classes on Tuesday afternoons. All UIC cadets must attend 2 Physical Training (PT) sessions per week at UIC with their fellow cadets.

Four-Year Program

The four-year program consists of a four-semester General Military Course (GMC) and a four-semester Professional Officer Course (POC). Cadets normally start this program in their freshman year, but may start as sophomores by enrolling in the AS 100 and AS 200 courses. A student who is not on an AFROTC scholarship may withdraw from the GMC at any time. Students must complete an AFROTC paid four-week field training encampment at Maxwell Air Force Base, Alabama, before being awarded POC status. This requirement is normally completed the summer between the sophomore year and junior year. The major areas of study during field training include junior officer training, career orientation, survival training, base functions, and the Air Force environment.

Contact the Unit Admissions Officer at the number above for more information.

Army Reserve Officers' Training Corps (ROTC) Program

University of Illinois at Chicago
Basement, Roosevelt Road Building (RRB)
728 West Roosevelt Road
(312) 413-2356, 9421, 9422, or (312) 996-3451
jccollin@uic.edu
<http://www.uic.edu/depts/rotc>
Administration: LTC Jeffrey Collins, Professor of Military Science
CPT Sarah Slattery, Enrollment Officer

The principal objective of the college-level Army ROTC program is to train students in leadership and commission the future officer leaders of the United States Army. The program is specifically designed to offer individuals the training necessary to develop leadership skills to prepare for effective service in the Army and in civilian careers. Another objective is to educate college students as to the science of military service and the responsibilities of an all-volunteer military force.

ROTC courses are available to all students as an elective. Requirements for enrollment in the Advanced Course and to pursue a commission as an Army officer are as follows:

1. United States citizenship (legal residents may enroll in the Advanced Course, but must obtain citizenship prior to commissioning).
2. Full-time student in good academic standing.
3. Medically qualified for commissioning.
4. Physically fit enough to pass the Army Physical Fitness Test and Water Survival Test.

A student entering the University with successful completion of military training in high school at an accredited Junior ROTC program is entitled, upon enrollment, to higher placement as determined by the professor of military science. Instruction is offered through four-year and two-year programs. The four-year program consists of the Basic Course (first two years) and the Advanced Course (last two years). The two-year program consists of the Advanced Course and prior attendance at the fully-funded Leadership Training Course (LTC) at Fort Knox, KY or prior military service. Both programs include attendance at the fully-funded Leadership Development and Assessment Course (LDAC) at Fort Lewis, WA, between the junior and senior years. Cadets are issued, at no cost, uniforms and equipment necessary for the ROTC program.

Basic Course

The Basic Course, designed for freshman and sophomore level students, is an introduction to ROTC, covers leadership training and carries no military obligation. It is a prerequisite to enrollment in the Advanced Course, but it can

be waived for prior service military members or for students who have attended the Leadership Training Course after their sophomore year.

Advanced Course

All cadets who receive credit for the Basic Course meet the physical and academic requirements and pass the physical examination are eligible for selection by the professor of military science for the Advanced Course. A cadet selected to enroll in the Advanced Course must have at least two years of full-time study remaining. A stipend allowance starting at \$350 per month is paid to each cadet in the Advanced Course during the school year. After their junior year, cadets attend summer camp, the five-week Leadership Development and Assessment Course at Fort Lewis, WA, and receive leadership evaluations. The Army pays for travel to and from camp, meals, housing, medical care, uniforms, and all required equipment while the cadet is at summer camp. Cadets are also paid the equivalent to that of a U.S. military academy cadet during attendance at LDAC. Cadets who enroll in the Advanced Course may also join or maintain membership in the United States Army Reserve or Army National Guard as officer trainees. These individuals will receive both the ROTC stipend allowance and drill pay. Upon successful completion of the Advanced Course and a bachelor's degree program, cadets receive a commission as Second Lieutenant in the Regular Army, the United States Army Reserve, or the Army National Guard.

Financial Assistance and Scholarships

The ROTC Program offers financial assistance to qualified students in the form of tuition waivers, two-, three-, and four-year Army ROTC Scholarships, the Guaranteed Reserve Forces Scholarship, and the State of Illinois ROTC Scholarship Program. A \$350 to \$400 monthly stipend allowance is paid to all contracted cadets.

Naval Reserve Officers Training Corps (NROTC) Program

Illinois Institute of Technology
Department of Naval Science
3300 South Federal Street
Chicago, IL 60616
(312) 567-3530
nrotc@iit.edu
<http://nrotc.iit.edu>

Through the Naval Reserve Officers Training Corps (NROTC) Program, young men and women prepare for rewarding careers as officers in the United States Navy or the United States Marine Corps. Graduates of the program have served as submarine and surface warfare officers, nuclear reactor design engineers, fighter pilots, special forces, and some have even gone on to be astronauts.

Scholarship program students are selected either by nationwide competition or from college program students (see below) recommended by the professor of naval science. For a period normally not exceeding four years, the Navy pays for all tuition, books, and fees, and provides an allowance of \$250 to \$400 per month. Graduates of the scholarship program receive a commission as Ensign, U.S. Navy, or Second Lieutenant, U.S. Marine Corps Reserve. Scholarship program students are presently required to serve a minimum of four years on active duty.

College Program students are nonscholarship students that participate in all school-year naval science classes and activities. They compete locally or nationally for 2- and 3-year NROTC scholarships. For UIC students, ten Illinois State ROTC Scholarship tuition waivers are available for College Program students per each incoming class. If an NROTC scholarship is not earned by their

junior year, students can apply to continue in the NROTC program with “advanced standing.” These selected students receive a monthly allowance of \$350 as juniors and \$400 as seniors. College Program graduates receive commissions as Ensign, U.S. Navy, or Second Lieutenant, U.S. Marine Corps Reserve. College Program graduates must complete a minimum of three years of active duty.

During the summer months, students are assigned to naval ships and stations where their education as future naval officers is enhanced by on-the-job training. Scholarship NROTC students attend summer training each year; College Program students attend during the summer preceding their last academic year.

The naval science courses consist of both a lecture and laboratory period. The lecture and laboratory periods are held at the Illinois Institute of Technology. Lecture days will vary depending on the course. The laboratory period is held each Thursday afternoon.

Students planning to enter the NROTC program in the fall semester are expected to attend a weeklong orientation program in August, designed to acquaint them with the program and with U.S. naval tradition. Students interested in attending this program should contact the NROTC office before July 1. For further information on NROTC, call the Department of Naval Science, (312) 567-3530 or visit the office at Illinois Institute of Technology, Room 215 Stuart Building, on the northwest corner of 31st and State Streets, Chicago, Illinois.

Academic Support Services

Academic Center for Excellence

2900 Student Services Building (SSB)

(312) 413-0032

<http://study.ace.uic.edu>

The Academic Center for Excellence (ACE) helps UIC students achieve their academic goals by strengthening their study strategies and academic skills. As an academic support and retention unit at UIC, ACE offers the following services:

- Courses in vocabulary, study strategies, English as a second language (ESL), writing, and critical reading and thinking (listed as ASP courses in the *Schedule of Classes*)
- Workshops on specific study strategies, e.g. time management, memory, test-taking, and anxiety reduction
- Workshop series for students experiencing academic challenges and students exploring options for graduate school
- Academic advising/coaching that focuses on long-term planning
- Study tips and resources on the ACE Web site
- Specifically targeted courses, workshops, and individualized support for students entering the health professions

ACE offers assistance to UIC students at all levels, from first year through graduate or professional school.

In addition to providing direct service to students, ACE acts as a resource to faculty, academic staff, and tutors. ACE professionals offer on-site workshops to colleges, programs, and student organizations and contribute their expertise for individual courses. ACE staff members provide training for tutors and peer study leaders and lead faculty development workshops. Finally, ACE works with faculty to develop Supplemental Instruction, a program of weekly study sessions linked to particularly difficult courses.

African American Academic Network

2800 Student Services Building (SSB)

(312) 996-5040

<http://www.vcsa.uic.edu/MainSite/departments/aaan/home/>

The African American Academic Network (AAAN) is a unique support program that assists UIC's African American student population from admissions through graduation. Its mission is to increase the recruitment, retention, and graduation rates of African American students. In keeping with that focus, AAAN is also committed to establishing an inclusive and supportive campus environment. AAAN sponsors academic, social, and cultural activities to encourage student engagement. AAAN provides comprehensive services in the following areas:

- Recruitment and admission counseling
- Academic advising
- Tutoring
- Personal growth and development
- Peer review groups

AAAN's programs and services are designed to meet the cultural, academic, social, and motivational needs of African American students. Whether individually, in small groups, or large formal settings, AAAN encourages students to bond with UIC by providing a supportive environment that helps them remain here through graduation.

CHANCE Learning Center

2080 Student Services Building (SSB)

(312) 355-5025

ytt@uic.edu

The CHANCE Learning Center (CLC) is a comprehensive program that provides customized services to students (both at the high school and college level) in the areas of academic preparation, study habits and skills, motivation and coping strategies, personalized counseling, probation outreach, career development, peer-to-peer mentoring, access to professional workshops, seminars, conferences, health and wellness series, and professional tutoring.

- C**—Counseling
- H**—Help and
- A**—Assistance
- N**—Necessary for a 21st Century
- C**—College
- E**—Education

CLC was designed to supplement academic instruction in a nontraditional method via distance learning, face-to-face, and Web-based interaction which provides services to participating students 24 hours a day/7 days a week. CLC works independently and collaboratively with UIC departments, Chicago Public Schools (CPS), City Colleges of Chicago (CCC), and community partners to support successful academic and cultural transition from high school to the college learning environment.

Sandi Port Errant Language and Culture Learning Center

(312) 996-8838

<http://www.uic.edu/depts/lclc/>

306 Grant Hall: Open Computer Lab—Software and technology specific for language learning. Students can check out laptops, headsets, digital voice recorders, camcorders, tripods, portable DVD players.

308 Grant Hall: Language Oasis—Lounge area for students, foreign language dishnetwork, foreign language conversation clubs, film screenings and culture talks: <http://www.uic.edu/depts/lclc/Oasis/index.shtml>

301 Grant Hall (GH): Faculty Resource Center—
Support for foreign language instructors to develop and integrate multimedia in their teaching.

Latin American Recruitment and Educational Services Program

2640 Student Services Building (SSB)
(312) 996-3356 or (312) 996-6073
<http://www.uic.edu/depts/lares/>

The Latin American Recruitment and Educational Services Program (LARES) is a recruitment and retention unit at UIC working primarily with urban, low income, and underserved Latino students. A component of the LARES mission is to empower students. The program prepares participants for professional and civic engagement by encouraging their participation in academic, social, and leadership activities that enrich their undergraduate education.

Services offered by LARES' bilingual/bicultural staff include:

- Recruitment at targeted high schools, neighborhood agencies, and community colleges
- Academic, career, and financial aid counseling
- Orientation for beginning freshmen, transfer students, and their families
- College success workshops
- Career workshops
- A Summer Success Seminar
- Graduate and scholarship application sessions
- Special opportunities and internships

Additional resources are offered through the following initiatives:

- A comprehensive peer tutoring program in conjunction with the Confederation of Latin American Students (CLAS)
- Mathematics and reading and writing courses offered through the Academic Skills Program (ASP)
- LARES' Cesar Chavez Study Center equipped with a computer lab, quiet study space, and private study room that can be reserved by students. The Study Center is open from 8:30 a.m. to 7:00 p.m. Monday through Thursday and until 4:45 on Fridays.
- An extended hour schedule that operates during midterms and the week of final examinations

Mathematical Sciences Learning Center

430 Science and Engineering Offices (SEO)
(312) 413-7872
mlc@math.uic.edu
<http://www.math.uic.edu/undergrad/mslc>

The Mathematical Sciences Learning Center provides support to UIC students studying mathematics at any level of the curriculum. The center is staffed by undergraduate peer tutors and by graduate students throughout the day. Help is provided on a walk-in basis by organizing students into impromptu small-group sessions working on a particular course. All UIC students are welcome to drop by the center and work on their math homework.

The center is equipped with comfortable seating, excellent blackboards, a wireless network, and offers laptop computers for checkout and use in the center.

Undergraduates interested in working in the center should consult the Web page for current opportunities.

Native American Support Program

2700 Student Services Building (SSB)
Chicago, IL 60607
(312) 996-4515
nasp@uic.edu
http://www.vcsa.uic.edu/MainSite/departments/native_american_support_program/home/

The goal of the Native American Support Program is to maintain the enrollment of Native American students at UIC. To realize this goal, NASP concentrates on the retention and graduation of Native American students.

The program offers students the following services:

- Provides academic, career, and financial aid advising
- Serves as a liaison to the Chicago American Indian community
- Sponsors the Native American Student Organization

Furthermore, the program sponsors the annual American Indian Heritage Celebration, a cultural event inviting the general public and UIC community to experience and celebrate Native American culture and heritage.

Science Learning Center

201 Science and Engineering South (SES)
(312) 355-0509
<http://www.chem.uic.edu/slc>

The Science Learning Center is a place in which all levels of expertise meet and exchange ideas. It is home to the sciences: biology, chemistry, earth and environmental science, and physics. Students can obtain tutoring in any of the 100-level science courses from graduate teaching assistants who keep regular office hours each week. Students may also find their teacher in the center as many of them use the open, friendly spaces available in the center for their office hours.

The Science Learning Center is also home to peer-led study groups that focus on the sciences. Student-leaders, who are trained in group dynamics and problem solving techniques, have expertise in a particular subject area. Generally, the peer-leaders are members of the UIC Honor's College who have successfully completed these courses. Peer-leaders guide their students toward development of sound study skills by encouraging them to work together to solve problems. The goal of the peer-led study groups is to assist students to develop individual study strategies tailored to the demands of a specific discipline.

The goals of the center include both the here-and-now need for tutoring as well as the vision of exposing students to the interdisciplinary nature of science. There are nine computers, two e-mail stations, and several smaller spaces designed for personal computer use. The Science Learning Center is wireless and the space incorporates two computer classrooms (205B and 205C) as well. It is open every school day from 8:00 a.m. until 5:00 p.m.

TRIO/Educational Opportunity Outreach Programs

2720 Student Services Building (SSB)
(312) 996-5046
<http://www.vcsa.uic.edu/MainSite/departments/trio/home/>

The TRIO/Educational Opportunity Outreach Programs consist of two pre-college programs (Upward Bound and Upward Bound Math Science) and one college program (Student Support Services/Academic Support Program) designed to identify students with academic potential who need information and support to complete high school and advance to, and graduate from, postsecondary school. These may be first generation college students, low-income students, or students with disabilities. The programs serve students without regard to ethnicity.

Tutoring

Academic Center for Excellence (ACE)

See *Academic Center for Excellence* entry earlier in this section for information.

African American Academic Network (AAAN)

See *African American Academic Network* entry earlier in this section for information.

College of Applied Health Sciences

Tutoring in KN 251/252 is available to any registered student. All other tutoring services are for AHS students.

Academic Support & Advising Program: Call 996-9377, or visit 356 PEB, 901 West Roosevelt Road. Check the Web site for more information <http://www.ahs.uic.edu/students/asap/> or e-mail Dr. Sandra Strome ssstrom@uic.edu.

College of Business Administration

Check Web site, call 996-2700, or go to 1118 University Hall (UH) for information.
http://www.uic.edu/cba/ugrad/academic_services/TutoringSchedule.html

Confederation of Latin American Students (CLAS)

Check Web site, call 355-5185, go to 476 Student Center East (SCE), or see the *Latin American Recruitment and Educational Services Program* entry earlier in this section for information. http://www2.uic.edu/stud_orgs/service/clas/schedule/sch.htm

Honors College Tutoring

Check Web site, call 413-2260, or go to 220 Burnham Hall (BH) for information. <http://www.hc.uic.edu>

Learning Resource Centers (Campus Housing)

East Campus: 996-2971, lower level of Commons N & S Residence Hall

West Campus: 355-6326, second floor of SRH
<http://www.housing.uic.edu/lrc>

Mathematical Sciences Learning Center

See *Mathematical Sciences Learning Center* entry earlier in this section of the catalog.

Science Learning Center

See *Science Learning Center* entry earlier in this section of the catalog for information.

Writing Center

See *Writing Center* entry later in this section of the catalog for information.

Urban Health Program

UHP Administrative Office

173 College of Medicine East Tower (CMET)
(312) 996-7727

Resource Center

2190 Student Services Building (SSB)
(312) 355-3099

College of Applied Health Sciences

851 Applied Health Sciences Building (AHSB)
(312) 355-3011

College of Dentistry

104 College of Dentistry (DENT)
(312) 355-1670

College of Medicine

145 College of Medicine West (CMW)
(312) 996-6491

College of Nursing

754 College of Nursing (NURS)
(312) 996-0810

College of Pharmacy

176 College of Pharmacy (PHARM)
(312) 996-3516

Graduate College

603 University Hall (UH)
(312) 413-2556

School of Public Health

152 School of Public Health and Psychiatric Institute (SPHPI)
(312) 996-7078

Early Outreach Program

320 Taylor Street Building (TSB)
(312) 996-0979

The mission of the Urban Health Program is to recruit, retain, and graduate underrepresented racial/ethnic minority students, specifically African Americans, Latinos, and Native Americans, in the health professions, and to expand educational opportunities for these populations at the pre-college (K–12), undergraduate, graduate, and professional levels. The ultimate goal is to train a cadre of healthcare professionals dedicated to improving the quality and availability of healthcare services in underserved urban areas. To fulfill its mission, the Urban Health Program provides the following services:

- Comprehensive orientation to the health professions programs and to the UIC campus
- Conferences and seminars to expose students from junior high school through graduate and professional school to health careers and to important issues facing health professionals
- Application and enrollment assistance
- Individualized counseling, academic support, and mentoring
- Links to UIC student support networks
- Career planning and course selection
- Networking opportunities among students, faculty, staff, community leaders, and healthcare professionals
- Access to the UHP Resource Center and information and referrals service for students

Since its establishment by Illinois legislative mandate in 1978, the Urban Health Program has played a direct role in the graduation of more than 4,500 Black, Latino and Native American students from the health professions colleges at UIC. Because of the Urban Health Program's efforts, UIC recruits and graduates more healthcare professionals of traditionally underserved heritage than any other college or university in the country. Partnering with elementary schools, high schools, student support programs, and other colleges and universities across Illinois, UHP is one of the only programs of its kind that works with students across the entire spectrum of healthcare professions, and at all points along the education pipeline.

Writing Center

105 Grant Hall (GH)

(312) 413-2206

<http://www.uic.edu/depts/engl/writing/>

At the Writing Center, students work collaboratively with peer tutors to become better writers. The Writing Center helps all students at any level work on all types of writing—academic, personal, or creative. Individual conferences are scheduled on the hour and students can make up to two appointments per week. Students are advised to call for an appointment in advance, though drop-ins will be accommodated when tutors are available. Students are also advised to visit regularly, as significant changes in writing take time. The Writing Center is open for tutoring during most business hours Monday through Friday, from the third week of the semester through Wednesday noon of finals week.

Tutors at the Writing Center are students from all majors who have earned higher grades in previous writing courses and have a continued interest in learning about writing and helping others. All new tutors are required to take one of the Writing Center's advanced writing and tutoring courses, English 222 or 482. The Writing Center has several paid staff positions for tutors who have excelled in English 222 or 482.

Faculty and instructors are also welcome to use the Writing Center as a resource for workshops, course development, and collaboration with other faculty.

The UIC Writing Center strives to create a diverse community of learning, which operates in the spirit of participatory democracy, collaboration, intellectual freedom, and mutual respect. Through education, research, and public service, the Writing Center complements the mission envisioned by the University of Illinois at Chicago.

Students may contact the Director, Vainis Aleksa, via e-mail vainis@uic.edu.

The Savvy Student's Guide to UIC

Students will find comprehensive information about student services and resources at UIC by visiting the following Web sites:

UIC Home Page
<http://www.uic.edu>

Vice Chancellor for Student Affairs Home Page
<http://www.uic.edu/depts/ovcsa/>

Student Handbook
<http://www.vcsa.uic.edu/MainSite/departments/Handbook/Home/>

Academic Center for Excellence (ACE)
(Academic Skills Program)
2900 Student Services Building (SSB)
(312) 413-0031
<http://www.uic.edu/depts/ace/index.shtml>

African American Academic Network (AAAN)
2800 Student Services Building (SSB)
(312) 996-5040
<http://www.uic.edu/depts/aaan/>

African American Cultural Center
209 Addams Hall (AH)
(312) 996-9549
<http://www.uic.edu/depts/aacc/>

Office of Admissions
1100 Student Services Building (SSB)
(312) 996-4350
<http://www.uic.edu/depts/oar/>

Asian American Resource and Cultural Center
101 Taft Hall (TH)
(312) 413-9569
<http://www.uic.edu/depts/aaa/AARCC/>

Athletics
Intercollegiate Athletics
240 Flames Athletic Center (FAC)
(312) 996-4639
<http://uicflames.cstv.com/>

Bookstores
UIC Bookstore
UIC Student Center East (SCE)
(312) 413-5500
<http://www.uicbookstore.org>

UIC Medical Bookstore
UIC Student Center West (SCW)
(312) 413-5550
<http://uicmedbooks.com>

Campus Advocacy Network
802 University Hall (UH)
(312) 413-8206
<http://www.uic.edu/depts/owa/advocacy.html>

CampusCare Student Health Benefit Program
Suite 227, Medical Center Administration (MCA)
(312) 996-4915
<http://www.uic.edu/hsc/campuscare/>

Campus Programs
Campus Programs—East
318 Student Center East (SCE)
(312) 413-5070
<http://www.uic.edu/depts/chcc/programs/Campus/Files/>

Campus Programs—West
50 Student Center West (SCW)
(312) 413-5180

Career, Co-op, Internship, and Employment Information

Office of Career Services
3050 Student Services Building (SSB)
(312) 996-2300
http://www.vcsa.uic.edu/MainSite/departments/career_services/home/

College of Business Administration Business Career Center
1118 University Hall (UH)
(312) 996-2700
<http://www.uic.edu/cba/ugrad/businesscareercenter.html>

College of Liberal Arts and Sciences (Co-op and Internship Program)
350 University Hall (UH)
(312) 996-0425
<http://www.uic.edu/las/lascoop/>

Cooperative Engineering Education Program
820 Science and Engineering Offices (SEO)
(312) 996-2311
<http://www.uic.edu/depts/enga/co-op/index.htm>

School of Art and Design (Cooperative Education Program)
106 Jefferson Hall (JH)
(312) 996-3337
<http://adweb.aa.uic.edu/web/programs/>

Student Employment
3050 Student Services Building (SSB)
(312) 996-3130
http://www.vcsa.uic.edu/MainSite/departments/career_services/sub_student_employment/home/

Child Care
Children's Center—East
287 Roosevelt Road Building (RRB)
(312) 413-5330
<http://www.uic.edu/depts/children/>

Children's Center—West
116 Applied Health Sciences Building (AHSB)
(312) 413-5330

Clubs for Students
See Student Organizations and Student Life.

Computing

Academic Computing and Communications Center (ACCC)
124 Benjamin Goldberg Research Center Building
(BGRC)
(312) 413-0003
consult@uic.edu
<http://www.accc.uic.edu>

Counseling Center

2010 Student Services Building (SSB)
(312) 996-3490
http://www.vcsa.uic.edu/MainSite/departments/counseling_center/home/

Dean of Students Office

3030 Student Services Building (SSB)
(312) 996-4857
http://www.vcsa.uic.edu/MainSite/departments/dean_of_students/home/

Disability Resource Center

1190 Student Services Building (SSB)
(312) 413-2183 (Voice)
(312) 413-0123 (TTY only)
http://www.uic.edu/depts/oaa/disability_resources/index.html

Employment

See Career, Co-op, Internship, and Employment Information.

Office of Student Financial Aid

1800 Student Services Building (SSB)
(312) 996-3126
http://www.vcsa.uic.edu/MainSite/departments/financial_aid/home/

Fitness, Recreation, and Wellness

<http://imweb.ops.uic.edu/public/rec/index1.htm>

Sport & Fitness Center
828 South Wolcott Street
(312) 413-5260

Student Recreation Facility
737 South Halsted Street
(312) 413-5150

Bowling Center
Student Center East (SCE)
(312) 413-5170

South Field Complex
900 West 14th Place
(312) 413-2738

Intramural Sports
http://www.vcsa.uic.edu/MainSite/departments/student_centers/sub_campus_recreation/Programs/

Wellness Center
237 Student Center East (SCE)
(312) 413-2120
<http://www.uic.edu/depts/wellctr/>

Gender and Sexuality Center

1180 Behavioral Sciences Building (BSB)
(312) 413-8619
<http://www.uic.edu/depts/quic/gsc/>

Health Services

Student Health at the Family Medicine Center
Outpatient Care Center, 1801 West Taylor Street, Suite 2A

University Village, 722 West Maxwell Street, 2nd Floor
(312) 996-2901

http://www.uic.edu/depts/mcfp/Student_Health.htm

Campus Housing Office

220 Student Residence Hall Building (SRH)
(312) 355-6300
<http://www.housing.uic.edu/>

Identification for Students/ i-card Services

Photo ID Office—East
1790 Student Services Building (SSB)
(312) 413-5940
<http://www.uic.edu/depts/idcenter/>

Photo ID Office—West
241 Student Center West (SCW)
(312) 413-5944

Information Centers

Student Center East (SCE), 1st Floor
(312) 996-5000

Student Residence Hall (SRH), 1st Floor (North Entrance)
(312) 355-6103

Student Services Building (SSB), 1st Floor
(312) 996-5000

International Students

Office of International Services
2160 Student Services Building (SSB)
(312) 996-3121
<http://www.ois.uic.edu/>

Sandi Port Errant Language and Culture Learning Center

301 Grant Hall
(312) 996-8838
<http://www.uic.edu/depts/lclc/>

Latin American Recruitment and Education Services Program (LARES)

2640 Student Services Building (SSB)
(312) 996-3356 or (312) 996-6073
<http://www.uic.edu/depts/lares/>

Latino Cultural Center

Rafael Cintron-Ortiz Latino Cultural Center
Lecture Center B2
(312) 996-3095
<http://www.uic.edu/depts/lcc/>

Legal Services

See Dean of Students Office.

Libraries

Richard J. Daley (Main) Library
801 S. Morgan Street
Circulation: (312) 996-2724
Reference: (312) 996-2726
<http://www.uic.edu/depts/lib/mainlib/>

Library of the Health Sciences
1750 West Polk Street
(312) 996-8966
<http://www.uic.edu/depts/lib/lhsc/>

Science Library
3500 Science and Engineering South (SES)
(312) 996-5396
<http://www.uic.edu/depts/lib/science/>

Mathematical Sciences Learning Center
430 Science and Engineering Offices (SEO)
(312) 413-7872
<http://www.math.uic.edu/undergrad/mslc>

Native American Support Program
2700 Student Services Building (SSB)
(312) 996-4515
http://www.vcsa.uic.edu/MainSite/departments/native_american_support_program/home/

Newspapers
Chicago Flame (Student Newspaper)
222 South Morgan Street, Suite 3E
(312) 996-5421
<http://www.chicagoflame.com>

UIC News
1320 University Hall (UH)
(312) 996-7758
<http://www.uic.edu/casp/depts/paff/uicnews/default.asp>

Ombuds Service
See Dean of Students Office.

Orientation
See Student Development Services.

Parking
Customer Service—East
2620 Student Services Building (SSB)
(312) 413-9020
<http://www.uic.edu/depts/avcad/parking/>

Customer Service—West
B5A Student Center West (SCW)
(312) 413-5850

Photo ID
See Identification for Students / i-card Services.

Placement Tests
Office of Testing Services
1070 Student Services Building (SSB)
(312) 996-0919
http://www.vcsa.uic.edu/MainSite/departments/testing_services/home/

Recreation

See Fitness, Recreation, and Wellness

Registrar
Office of Registration and Records
1200 Student Services Building (SSB)
(312) 996-4385
<http://www.uic.edu/depts/oar/>

Religious Support Services
See Dean of Students.

ROTC
Basement, Roosevelt Road Building (RRB)
(312) 413-2357
<http://www.uic.edu/depts/rotc/>

Science Learning Center
201 Science and Engineering South (SES)
(312) 355-0509
<http://www.chem.uic.edu/slc/>

Office of Special Scholarship Programs
2506 University Hall (UH)
(312) 355-2477
<http://www.uic.edu/depts/oa/spp/>

Student Affairs
Vice Chancellor for Student Affairs
3010 Student Services Building (SSB)
(312) 996-7140
<http://www.uic.edu/depts/ovcsa/>

Student Centers
Student Center East (SCE)
750 South Halsted Street
(312) 413-5100
<http://www.uic.edu/depts/chcc/index.html>

Student Center West (SCW)
828 South Wolcott Avenue
(312) 413-5200

Student Development Services
1600 Student Services Building (SSB)
(312) 996-3100
http://www.vcsa.uic.edu/MainSite/departments/student_development_services/home/

Student Leadership Development and Volunteer Services
390 Student Center East (SCE)
(312) 996-4500
http://www.vcsa.uic.edu/MainSite/departments/student_development_services

Student Financial Services and Cashier Operations
1900 Student Services Building (SSB)
(312) 996-2515
<http://www.obfs.uillinois.edu/usfsco/index.html>

Student Health Insurance

See *CampusCare* Student Health Benefit Program.

Student Identification

See Identification for Students/ i-card Services.

Student Organizations and Student Life

Campus Programs—East

318 Student Center East (SCE)

(312) 413-5070

http://www.uic.edu/depts/chcc/CampusPrograms/Stud_Orgs.html

Campus Programs—West

50 Student Center West (SCW)

(312) 413-5180

Student Unions

See Student Centers.

Study Abroad Office

502 University Hall (UH)

(312) 413-7662

<http://studyabroad.uic.edu>

Summer Session

Summer Session Office

1333 South Halsted Street, Suite 225

(312) 996-9099, (800) 625-2013 Toll-Free

<http://www.uic.edu/depts/summer/>

Testing Service

See Placement Tests.

TRIO

2720 Student Services Building (SSB)

(312) 996-5046

<http://www.uic.edu/depts/trio/>

U-Pass Information

1790 Student Services Building (SSB)

(312) 413-5940

<http://www.uic.edu/depts/idcenter/upass.shtml>

U-Pass Distribution

Photo ID Office

1790 Student Services Building

(312) 413-8658

See URL above for requirements, dates, and times.

Urban Health Program

Resource Center

2190 Student Services Building (SSB)

(312) 355-3099

<http://www.uic.edu/depts/uhealth/>

Veterans Affairs

See Financial Aid.

Office of Women's Affairs

802 University Hall (UH)

(312) 413-1025

<http://www.uic.edu/depts/owa/>

Writing Center

105 Grant Hall (GH)

(312) 413-2206

<http://www.uic.edu/depts/engl/writing/>

General Education: Setting the Foundations for University Study

New General Education Program at UIC Effective Fall 2007

Who follows the new General Education Program?

UIC has instituted a new General Education Program. The new program is effective for freshman who matriculated at UIC in the Fall 2007 semester or after, and for transfer students matriculating in the Fall 2009 semester. Transfer students who matriculated at UIC during the Fall 2007, Spring 2008, Fall 2008, and Spring 2009 semesters have the option of fulfilling the old General Education requirements or converting to the new program. As is always the case when program requirements are changed, continuing students who matriculated at UIC prior to Fall 2007 also have the option of fulfilling the old General Education requirements or converting to the new program.

What and where are the old General Education requirements?

The old General Education requirements included the following course distribution categories: Humanities, Social Sciences, Natural Sciences, and Cultural Diversity. Continuing students and transfer students who are completing degree programs that include these categories should consult the 2005–2007 Undergraduate Catalog for a summary of the old requirements and how to complete them within a particular degree program. The 2005–2007 catalog is available in PDF format in the online catalog <http://www.uic.edu/ucat/catalog/index.html> under the Links menu.

Note: Transfer students and continuing students following the old General Education requirements should consult their college and department sections of the *2005–2007 Undergraduate Catalog* for complete information on fulfilling the requirements.

Who needs the information in this section of the catalog?

The new General Education Program is summarized in this section of the catalog. Freshman students and transfer students who are matriculating in the Fall 2009 semester should use this section of the catalog to understand each of the new General Education categories and to select the courses from each category. Continuing students should only use this section of the catalog if they plan to convert to the new General Education Program.

General Education at UIC: An Overview

General Education is an important part of every undergraduate degree program. It provides students with a breadth of exposure to the academic disciplines that are essential for becoming well-educated college graduates and citizens. Over the last twenty years, several campus groups were charged with reviewing and reworking UIC's General Education system. Faculty groups and task forces met to discuss General Education and its purposes. In academic year 2002–2003, the Task Force on General Education and the Senate Committee on Educational Policy (SCEP) charged the LAS Educational Policy Committee (EPC) with developing a new, purposeful General Education curriculum for the campus.

In developing the new program, the EPC provided enough structure to guarantee a certain level of intellectual breadth, while at the same time allowing students the opportunity to select courses or clusters of courses around areas of their own interests. Specifically, the program:

- provides intellectual guidance by identifying six broad areas of knowledge that correspond to the kinds of experiences that a liberally educated person should have.
- makes clear to students what they are taking and why.
- is an open system that does not bind departments into one category. This model thus allows for the development of interdepartmental courses over time. It also allows students to gain interdisciplinary perspectives, which was one of the hoped for outcomes of revising General Education.
- gives individual colleges some freedom to adjust the General Education requirements to suit their own needs. Although there is a campus wide minimum of one course from each General Education category, colleges may add additional course requirements.

The General Education Program at UIC

The General Education Program at UIC is designed to serve as a foundation for lifelong learning. It will help prepare students for the world beyond the college experience, a world in which one needs to be able to:

- think independently.
- understand and critically evaluate information.
- analyze and evaluate arguments.
- develop and present cogent written and oral arguments.
- explore one's own culture and history as well as those of others.
- understand, interpret, and evaluate the arts.
- think critically about how individuals influence and are influenced by political, economic, cultural, and family institutions.

The General Education Program at UIC (sometimes referred to as Gen Ed or GE) has two main components: a grouping of core courses that are clustered around six themes and sets of required proficiencies. The specific requirements vary from college to college. All colleges, however, require a minimum of 24 semester hours of credit with at least one course in each of the six categories of General Education and proficiency in writing (as demonstrated by successful completion of English 160 and 161 or by certain scores on placement or other tests).

General Education Core

The General Education Core includes the following six categories. This section of the catalog provides a description and list of courses for each category.

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

General Education Proficiencies

The University Writing requirement is common across all colleges. Individual colleges may have additional General Education requirements and proficiencies. Students should consult their college and department sections of the catalog for information about fulfilling the General Education requirements as a required part of their degree program.

University Writing Requirement

Students must demonstrate proficiency in written English by earning passing grades in English 160 and English 161, or by achieving proficiency in one or both of these courses certified in writing by the Department of English. The Department of English reserves the right to require a student to take a preparatory course as a prerequisite for English 160 if the student's score on the Writing Placement Test reveals the need for such a course. Whenever questions arise with regard to the fulfillment of the University Writing requirement through transfer courses, a writing portfolio, or standard examinations, the Department of English will determine whether to grant the student an exemption from the requirement.

Students should consult their college section of the catalog for more information on fulfilling the University Writing requirement as part of their degree program.

General Education Core**Analyzing the Natural World**

A central principle of a knowledge-based society is that, where possible, experimental tests should be designed to critically evaluate the accuracy of an idea or physical law. It is crucial that students understand both how accurate experimental results are obtained and how uncertainties in these results affect scientific conclusions. Courses in this category provide an understanding of scientific method and the factual knowledge necessary to develop hypotheses, to test them, and to distinguish those conclusions resting on unsupported assertion from those verified by sound scientific reasoning. Theories also play an important role in the way we see the world around us. In the natural sciences, theories are developed to explain experimental observation, form the basis for the design of further experiments, and provide the foundation for advances in technology. Mathematics provides appropriate tools (such as calculus) necessary to formulate the scientific theories.

Courses in this category should introduce students to scientific and mathematical concepts and methods. They should be designed to facilitate the students' ability to do one or more of the following:

1. Understand and critically evaluate information and concepts in the natural and mathematical sciences.
2. Use and understand scientific method to analyze ideas and obtain knowledge.
3. Appreciate the value of and difference between scientific laws, theories, hypotheses, and speculation.
4. Use scientific and mathematical reasoning to make relevant distinctions among ideas.
5. Think critically about contemporary issues in science and technology.
6. Logically and clearly communicate experimental results and observations to others.
7. Analyze quantitative information and draw conclusions from these analyses.

Key to notes listed

a = also approved for Analyzing the Natural World

b = also approved for Understanding the Individual and Society

c = also approved for Understanding the Past

d = also approved for Understanding the Creative Arts

e = also approved for Exploring World Cultures

f = also approved for Understanding U.S. society

g = Indicated courses specifically designed for those majoring in areas other than science and mathematics
h = LAS nonlaboratory courses

Anthropology (ANTH)

| | | |
|-----|--|-----------------------|
| 102 | Introduction to Archaeology | 4 hours ^c |
| 105 | Human Evolution | 4 hours ^{cg} |
| 218 | Anthropology of Children and Childhood | 3 hours ^{bh} |
| 238 | Biology of Women <i>Same as GWS 238</i> | 3 hours ^{gh} |

Biological Sciences (BIOS)

| | | |
|-----|--|----------------------|
| 100 | Biology of Cells and Organisms | 5 hours |
| 101 | Biology of Populations and Communities | 5 hours |
| 104 | Life Evolving | 5 hours ^g |

Chemistry (CHEM)

| | | |
|-----|------------------------------------|----------------------|
| 100 | Chemistry and Life | 5 hours ^g |
| 112 | General College Chemistry I | 5 hours |
| 114 | General College Chemistry II | 5 hours |
| 116 | Honors General Chemistry I | 5 hours |
| 118 | Honors General Chemistry II | 5 hours |
| 130 | Survey of Organic and Biochemistry | 5 hours |

Earth and Environmental Sciences (EAES)

| | | |
|-----|--------------------------------|----------------------|
| 101 | Exploring the Earth's Surface | 5 hours |
| 102 | Exploring the Earth's Interior | 5 hours |
| 109 | The Restless Earth | 4 hours ^g |
| 200 | Field Work in Missouri | 2 hours |

Honors College (HON)

| | | |
|-----|---|-----------------------|
| 130 | Honors Core in Analyzing the Natural World and Understanding the Individual and Society | 3 hours ^{bh} |
| 131 | Honors Core in Analyzing the Natural World and Understanding the Past | 3 hours ^{ch} |
| 132 | Honors Core in Analyzing the Natural World and Understanding the Creative Arts | 3 hours ^{dh} |
| 133 | Honors Core in Analyzing the Natural World and Exploring World Cultures | 3 hours ^{eh} |
| 134 | Honors Core in Analyzing the Natural World and Understanding U.S. Society | 3 hours ^{fh} |
| 145 | Honors Core in Analyzing the Natural World | 3 hours ^h |

Mathematical Computer Science (MCS)

| | | |
|-----|----------------------------------|----------------------|
| 260 | Introduction to Computer Science | 4 hours ^h |
|-----|----------------------------------|----------------------|

Mathematics (MATH)

| | | |
|-----|---------------------------------|-----------------------|
| 150 | Finite Mathematics | 3 hours ^{gh} |
| 160 | Finite Mathematics for Business | 5 hours ^h |
| 165 | Calculus for Business | 5 hours ^h |
| 180 | Calculus I | 5 hours ^h |
| 181 | Calculus II | 5 hours ^h |
| 210 | Calculus III | 3 hours ^h |

Natural Sciences (NATS)

| | | |
|-----|------------------|----------------------|
| 101 | Physical World | 4 hours ^g |
| 102 | Chemical World | 4 hours ^g |
| 103 | Biological World | 4 hours ^g |

Philosophy (PHIL)

| | | |
|-----|------------------------|----------------------|
| 105 | Science and Philosophy | 3 hours ^h |
|-----|------------------------|----------------------|

Physics (PHYS)

| | | |
|-----|---|----------------------|
| 105 | Introductory Physics I—Lecture* | 4 hours ^h |
| 106 | Introductory Physics I—Laboratory* | 1 hour |
| 107 | Introductory Physics II—Lecture* | 4 hours ^h |
| 108 | Introductory Physics II—Laboratory* | 1 hour |
| 112 | Astronomy and the Universe | 4 hours ^g |
| 113 | Physics of Sports | 4 hours |
| 115 | Physics of Sound and Music | 4 hours ^g |
| 121 | Natural Sciences—The Physical Universe | 4 hours ^g |
| 123 | Physics of the Environment | 5 hours ^g |
| 141 | General Physics I (Mechanics) | 4 hours |
| 142 | General Physics II (Electricity and Magnetism) | 4 hours |

* Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106; PHYS 107/PHYS 108.

Understanding the Individual and Society

The primary goal of the Individual and Society requirement is to enhance understanding of the complex activities of individuals and their relations with each other and with groups, institutions, governments, media, and society. Courses within this category seek to (1) enhance knowledge and appreciation of the diversity of individuals, societies, and cultures; (2) advance the understanding of human relationships within different contexts; and (3) explore the gathering and assessing of knowledge within any social setting or activity. Courses present theories about the human activities and ideas and demonstrate how scholars use qualitative, quantitative, and humanistic methods to evaluate those theories. They may also explore the ways that knowledge is formed about the self and the world in historical, literary, philosophical, and scientific realms.

Courses in this category should introduce students either to the complexities of the individual or the relationship of the individual to social structures. They should be designed to facilitate the students' ability to do one or more of the following:

1. Recognize, describe, and explain social institutions, structures, and processes and the complexities of a global culture and diverse society.
2. Think critically about how individuals influence and are influenced by political, geographic, economic, cultural, and family institutions in their own and other cultures and explain how one's knowledge and beliefs may differ from others.
3. Explain the relationship between the individual and society as it influences (1) individuals' cognition, ethics, social interactions, communication practices and affect; and (2) the quality of life of the individual, the family, and the community.
4. Examine how literature, history, ethical systems, scientific inquiry, or communicative practice shape our knowledge and perception of individuals and social structures.
5. Using the most appropriate principles, methods, and technologies, gather and analyze previous inquiry regarding the relationships between individuals and society, draw logical conclusions about such inquiry, and creatively or scientifically apply those conclusions to one's life and society.

Key to notes listed

a = also approved for Analyzing the Natural World

b = also approved for Understanding the Individual and Society

c = also approved for Understanding the Past

d = also approved for Understanding the Creative Arts

e = also approved for Exploring World Cultures

f = also approved for Understanding U.S. Society

African American Studies (AAS)

| | | |
|-----|--|----------------------|
| 100 | Introduction to African American Studies | 3 hours ^f |
| 103 | African American Politics and Culture <i>Same as POLS 112</i> | 3 hours ^f |
| 104 | Race, Place, and Schooling: African Americans and Education <i>Same as PS 104</i> | 3 hours ^f |
| 110 | Introduction to African American Literature, 1760–1910 <i>Same as ENGL 118</i> | 3 hours ^d |
| 201 | The Psychology of African Americans <i>Same as PSCH 201</i> | 3 hours ^f |
| 202 | African American Behavioral Patterns <i>Same as PSCH 202</i> | 3 hours ^f |
| 203 | The African American Family in the United States <i>Same as SOC 203</i> | 3 hours ^f |
| 263 | African American Intellectual History <i>Same as HIST 263</i> | 3 hours ^c |
| 271 | African Americans and the Politics of Incarceration <i>Same as CLJ 271 and SOC 271</i> | 3 hours ^f |
| 272 | Race, Gender, and Sexuality <i>Same as GWS 272</i> | 3 hours ^f |

Anthropology (ANTH)

| | | |
|-----|---|-----------------------|
| 100 | The Human Adventure | 3 hours ^{ce} |
| 101 | World Cultures: Introduction to Social Anthropology | 3 hours ^e |
| 110 | Cybernetic Systems | 3 hours |
| 214 | Sex and Gender in World Cultures <i>Same as GWS 214</i> | 3 hours ^e |
| 216 | Medicine, Culture, and Society | 3 hours ^e |
| 218 | Anthropology of Children and Childhood | 3 hours ^a |
| 270 | The First Americans | 3 hours ^f |
| 271 | American Indian Religion and Philosophy | 3 hours ^f |
| 273 | Ethnography of Southeast Asia <i>Same as GEOG 273</i> | 3 hours ^e |
| 274 | Ethnography of Africa | 3 hours ^e |
| 275 | South American Indians <i>Same as LALS 255</i> | 3 hours ^e |
| 277 | Ethnography of Mesoamerica <i>Same as LALS 270</i> | 3 hours ^e |
| 278 | Brazil: A Multiethnic Society <i>Same as LALS 272</i> | 3 hours ^e |
| 279 | South Asian Cultures and Societies <i>Same as ASST 279</i> | 3 hours ^e |
| 280 | China and Japan: Society and Culture <i>Same as ASST 280</i> | 3 hours ^e |
| 281 | Ethnography of North Africa and the Middle East | 3 hours ^e |

Classics (CL)

| | | |
|-----|---------------------------|----------------------|
| 208 | Greek Mythology | 3 hours ^c |
| 260 | Near Eastern Myths & Epic | 3 hours ^c |

Communication (COMM)

| | | |
|-----|---|---------|
| 100 | Fundamentals of Human Communication | 3 hours |
| 101 | Introduction to Communication | 3 hours |
| 102 | Introduction to Interpersonal Communication | 3 hours |
| 103 | Introduction to Media | 3 hours |
| 140 | Fundamentals of Media Communication | 3 hours |

Economics (ECON)

| | | |
|-----|--------------------------------------|----------------------|
| 120 | Principles of Microeconomics | 3 hours ^f |
| 121 | Principles of Macroeconomics | 3 hours ^f |
| 130 | Principles of Economics for Business | 5 hours ^f |

Education (ED)

| | | |
|-----|---|----------------------|
| 100 | Introduction to Urban Education | 3 hours ^f |
| 205 | Introduction to Race, Ethnicity, and Education | 3 hours ^f |
| 222 | Introduction to Gender, Sexuality, and Education | 3 hours ^f |
| 258 | Bilingualism and Cross-Cultural Issues in a Diverse Society | 3 hours ^f |

English (ENGL)

| | | |
|-----|---|----------------------|
| 110 | English and American Popular Genres | 3 hours ^d |
| 111 | Women and Literature <i>Same as GWS 111</i> | 3 hours ^d |
| 117 | Introduction to Gender, Sexuality, and Literature <i>Same as GWS 117</i> | 3 hours ^d |
| 120 | Film and Culture | 3 hours ^d |
| 122 | Understanding Rhetoric | 3 hours ^d |
| 125 | Introduction to Asian American Studies <i>Same as ASAM 125 and SOC 125</i> | 3 hours ^f |

Gender and Women's Studies (GWS)

| | | |
|-----|---|----------------------|
| 101 | Gender in Everyday Life | 3 hours ^f |
| 102 | Global Perspectives on Women and Gender | 3 hours ^e |
| 204 | Gender and Popular Culture <i>Same as COMM 204</i> | 3 hours ^f |
| 262 | Constructions of Gender, Race, Health, and Human Rights | 3 hours ^e |

Geography (GEOG)

| | | |
|-----|---|----------------------|
| 100 | Concepts in Geography | 3 hours ^e |
| 101 | World Regional Geography | 3 hours ^e |
| 141 | Environmental Geography | 3 hours |
| 151 | Introduction to Cultural Geography | 4 hours ^e |
| 161 | Introduction to Economic Geography | 3 hours ^e |
| 202 | Geography of the United States and Canada | 3 hours ^f |
| 203 | Human Geography of Latin America, including the Caribbean Region <i>Same as LALS 217</i> | 3 hours ^e |
| 211 | Chicago: An Urban Geography | 3 hours ^f |
| 215 | A Global Geography of Cities | 3 hours ^e |
| 241 | Resource Problems in the United States | 3 hours ^f |

Germanic Studies (GER)

| | | |
|-----|--|----------------------|
| 120 | Study of Gender, Class, and Political Issues in German Texts <i>Same as GWS 120</i> | 3 hours ^e |
| 240 | Classical German Thought from Kant to Nietzsche | 3 hours ^c |

History (HIST)

| | | |
|-----|---|-----------------------|
| 101 | Western Civilization since 1648 | 3 hours ^c |
| 117 | Understanding the Holocaust <i>Same as JST 117</i> | 3 hours ^c |
| 206 | The Earlier Middle Ages | 3 hours ^c |
| 207 | The Later Middle Ages | 3 hours ^c |
| 211 | Europe: 1500 to 1715 | 3 hours ^c |
| 213 | Europe: 1815 to 1914 | 3 hours ^c |
| 214 | Europe: 1914 to 1945 | 3 hours ^c |
| 220 | Modern Germany since 1848 | 3 hours ^c |
| 222 | England to 1689 | 3 hours ^c |
| 223 | Modern Britain since 1689 | 3 hours ^c |
| 224 | France: 1500 to 1715 | 3 hours ^c |
| 225 | France: 1715 to 1848 | 3 hours ^c |
| 226 | France since 1848 | 3 hours ^c |
| 227 | Spain: 1469 to 1808 <i>Same as LALS 227</i> | 3 hours ^c |
| 228 | Spain since 1808 <i>Same as LALS 228</i> | 3 hours ^c |
| 233 | History of East Central Europe and the Balkans | 3 hours ^c |
| 234 | History of Poland <i>Same as POL 234</i> | 3 hours ^c |
| 237 | Russia since 1812 | 3 hours ^c |
| 259 | The History of American Women <i>Same as GWS 259</i> | 3 hours ^{cf} |

Honors College (HON)

| | | |
|-----|---|----------------------|
| 120 | Honors Core in Understanding the Individual and Society and Understanding the Past | 3 hours ^c |
| 121 | Honors Core in Understanding the Individual and Society and Understanding the Creative Arts | 3 hours ^d |
| 122 | Honors Core in Understanding the Individual and Society and Exploring World Cultures | 3 hours ^e |
| 123 | Honors Core in Understanding the Individual and Society and Understanding U.S. Society | 3 hours ^f |
| 130 | Honors Core in Analyzing the Natural World and Understanding the Individual and Society | 3 hours ^a |
| 140 | Honors Core in Understanding the Individual and Society | 3 hours |

Jewish Studies (JST)

| | | |
|-----|--|----------------------|
| 101 | Introduction to Jewish Studies: Literature and Society | 3 hours ^f |
| 102 | Introduction to Jewish Studies: Religion and Culture | 3 hours ^f |

Linguistics (LING)

| | | |
|-----|---------------------------------------|----------------------|
| 150 | Introduction to the Study of Language | 3 hours |
| 160 | Language and Society | 3 hours ^f |
| 170 | Languages of the World | 3 hours ^e |

Philosophy (PHIL)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Philosophy | 3 hours |
| 103 | Introduction to Ethics | 3 hours |
| 104 | Introduction to Social/Political Philosophy | 3 hours ^f |
| 110 | Philosophy of Love and Sex | 3 hours |
| 112 | Morality and the Law | 3 hours |
| 115 | Death | 3 hours |
| 120 | Introduction to Ancient Philosophy <i>Same as CL 120</i> | 3 hours ^c |
| 141 | Philosophy and Revelation: Jewish and Christian Perspectives <i>Same as RELS 141 and JST 141</i> | 3 hours ^e |
| 225 | Nineteenth-Century Philosophy | 3 hours |

Political Science (POLS)

| | | |
|-----|---|----------------------|
| 101 | Introduction to American Government and Politics | 3 hours ^f |
| 120 | Introduction to Political Theory | 3 hours ^c |
| 130 | Introduction to Comparative Politics <i>Same as LALS 130</i> | 3 hours ^e |
| 184 | Introduction to International Relations | 3 hours ^e |
| 190 | Scope of Political Science | 3 hours |

Psychology (PSCH)

| | | |
|-----|----------------------------|---------|
| 100 | Introduction to Psychology | 4 hours |
| 210 | Theories of Personality | 3 hours |
| 231 | Community Psychology | 3 hours |
| 270 | Abnormal Psychology | 3 hours |

Sociology (SOC)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Sociology | 3 hours ^f |
| 105 | Social Problems | 3 hours ^f |
| 215 | Sociology of Childhood and Youth | 3 hours ^f |
| 224 | Gender and Society <i>Same as GWS 224</i> | 3 hours ^f |
| 225 | Racial and Ethnic Groups <i>Same as LALS 225</i> | 3 hours ^f |
| 228 | Sociology of Asia and Asian Americans <i>Same as ASST 228</i> | 3 hours ^f |
| 229 | Sociology of Latinos <i>Same as LALS 229</i> | 3 hours ^f |
| 241 | Social Inequalities | 3 hours ^f |
| 244 | Sociology of Work | 3 hours ^f |
| 245 | Marriage and Family | 3 hours ^f |
| 246 | Sociology of Religion <i>Same as RELS 246</i> | 3 hours ^f |
| 251 | Health and Medicine | 3 hours ^f |
| 265 | Sociology of Politics | 3 hours |
| 268 | Introduction to Comparative Sociology | 3 hours ^e |
| 276 | Urban Sociology | 3 hours ^f |

Spanish (SPAN)

| | | |
|-----|--|----------------------|
| 192 | From the Convent to the Streets: Latin American Women Writers in Translation <i>Same as GWS 192 and LALS 192</i> | 3 hours ^e |
|-----|--|----------------------|

Understanding the Past

The study of past events and ideas enables students to view the present within the context of the past, appreciate both the liberating and constraining features of tradition, and understand what forces have affected their own lives as well as those of peoples in different cultures. The objects of study in these courses include the human past and its historical record; the emergence and transformation of nations, states, ideas, and civilizations; traditions and modes of human thought; the relationship between ideas and practices; and the implications of scientific discovery and technological innovation.

Courses in this category should have as their primary focus significant past events. They should be designed to facilitate the students' ability to do one or more of the following:

1. Understand the implication and meaning of technological innovation and scientific discovery for the development of human society.
2. Critically analyze the cultural, economic, geographical, and political processes that influenced historical events.
3. Recognize, describe, and explain the nature of past historical events and their consequences for the present.
4. Examine the relationship between individuals and past events, their interactions, and the repercussions of these interactions.
5. Understand and explain the significance and influence of the past and its connection to current political, scientific, and cultural forces.

Key to notes listed

a = also approved for Analyzing the Natural World

b = also approved for Understanding the Individual and Society

c = also approved for Understanding the Past

d = also approved for Understanding the Creative Arts

e = also approved for Exploring World Cultures

f = also approved for Understanding U.S. Society

African American Studies (AAST)

| | | |
|-----|--|----------------------|
| 120 | African American Religious Traditions | 3 hours ^f |
| 229 | Africa and Its Diasporas <i>Same as HIST 229</i> | 3 hours ^e |
| 247 | African American History to 1877 <i>Same as HIST 247</i> | 3 hours ^f |
| 248 | African American History since 1877 <i>Same as HIST 248</i> | 3 hours ^f |
| 249 | Black Freedom Movements in the U.S. | 3 hours ^f |
| 263 | African American Intellectual History <i>Same as HIST 263</i> | 3 hours ^b |
| 265 | The Harlem Renaissance <i>Same as ENGL 265</i> | 3 hours ^f |

Anthropology (ANTH)

| | | |
|-----|-------------------------------|-----------------------|
| 100 | The Human Adventure | 3 hours ^{be} |
| 102 | Introduction to Archaeology | 4 hours ^a |
| 105 | Human Evolution | 4 hours ^a |
| 229 | Special Topics in Archaeology | 3 hours |

Arabic (ARAB)

| | | |
|-----|-------------------------------|----------------------|
| 250 | The Heritage of Muslim Iberia | 3 hours ^e |
|-----|-------------------------------|----------------------|

Archaeological Studies (ARST)

| | | |
|-----|--|----------------------|
| 210 | The Art and Archaeology of Ancient Egypt <i>Same as AAST 210 and AH 210</i> | 3 hours ^d |
|-----|--|----------------------|

Classics (CL)

| | | |
|-----|---|----------------------|
| 100 | Greek Civilization | 3 hours ^d |
| 101 | Roman Civilization | 3 hours |
| 102 | Introduction to Classical Literature | 3 hours ^d |
| 103 | Introduction to Classical and Mediterranean Archaeology | 3 hours ^d |
| 104 | Mediterranean Traditions: Family, Society, and the Divine | 3 hours ^e |
| 204 | Greek Art and Archaeology <i>Same as AH 204 and HIST 204</i> | 3 hours ^d |
| 205 | Roman Art and Archaeology <i>Same as AH 205 and HIST 205</i> | 3 hours ^d |
| 208 | Greek Mythology | 3 hours ^b |
| 250 | Greek and Roman Epic Poetry | 3 hours ^d |
| 251 | Greek Tragedy | 3 hours ^d |
| 252 | Greek and Roman Comedy | 3 hours ^d |
| 253 | Roman Satire and Rhetoric | 3 hours ^d |
| 255 | Greek Science, Islamic Culture <i>Same as ARAB 255</i> | 3 hours ^e |
| 260 | Near Eastern Myths & Epic | 3 hours ^b |
| 297 | Studies in the Classical Tradition <i>Same as ENGL 297</i> | 3 hours ^d |

English (ENGL)

| | | |
|-----|--|-----------------------|
| 107 | Introduction to Shakespeare | 3 hours ^d |
| 115 | Understanding the Bible as Literature <i>Same as JST 115 and RELS 115</i> | 3 hours ^{de} |

French (FR)

| | | |
|-----|--------------------------------------|----------------------|
| 202 | Introduction to French Literature II | 3 hours ^d |
|-----|--------------------------------------|----------------------|

Gender and Women's Studies (GWS)

| | | |
|-----|--|----------------------|
| 252 | Sexuality in America: Historical Perspectives <i>Same as HIST 252</i> | 3 hours ^f |
|-----|--|----------------------|

Germanic Studies (GER)

| | | |
|-----|---|----------------------|
| 125 | Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature and Film <i>Same as JST 125</i> | 3 hours ^e |
| 218 | Opera in Germanic Cultures: From Mozart to Berg | 3 hours ^d |
| 219 | Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture | 3 hours ^d |
| 240 | Classical German Thought from Kant to Nietzsche | 3 hours ^b |

Greek, Modern (GKM)

| | | |
|-----|---|---------|
| 285 | Cultural History of Modern Greece: 1453 to the Present <i>Same as HIST 285</i> | 3 hours |
| 286 | Modern Greek Cities: Historical-Ethnographic Survey <i>Same as HIST 286</i> | 3 hours |

History (HIST)

| | | |
|-----|---|----------------------|
| 100 | Western Civilization to 1648 | 3 hours |
| 101 | Western Civilization since 1648 | 3 hours ^b |
| 103 | American Civilization to the Late Nineteenth Century | 3 hours ^f |
| 104 | American Civilization since the Late Nineteenth Century | 3 hours ^f |
| 106 | The World since 1400 | 3 hours ^e |

| | | |
|-----|--|-----------------------|
| 109 | East Asian Civilization: China <i>Same as ASST 109</i> | 3 hours ^e |
| 110 | East Asian Civilization: Japan <i>Same as ASST 110</i> | 3 hours ^e |
| 114 | Topics in World History | 3 hours |
| 115 | Introduction to North American Indian History <i>Same as NAST 115</i> | 3 hours ^{ef} |
| 116 | Freshman Seminar: Special Topics | 3 hours |
| 117 | Understanding the Holocaust <i>Same as JST 117</i> | 3 hours ^b |
| 141 | African Civilization <i>Same as AAST 141</i> | 3 hours ^e |
| 161 | Introduction to Latin American History <i>Same as LALS 161</i> | 3 hours ^e |
| 177 | Middle Eastern Civilization | 3 hours ^e |
| 202 | The Ancient World: Greece <i>Same as CL 202</i> | 3 hours |
| 203 | The Ancient World: Rome <i>Same as CL 203</i> | 3 hours |
| 206 | The Earlier Middle Ages | 3 hours ^b |
| 207 | The Later Middle Ages | 3 hours ^b |
| 211 | Europe: 1500 to 1715 | 3 hours ^b |
| 213 | Europe: 1815 to 1914 | 3 hours ^b |
| 214 | Europe: 1914 to 1945 | 3 hours ^b |
| 220 | Modern Germany since 1848 | 3 hours ^b |
| 222 | England to 1689 | 3 hours ^b |
| 223 | Modern Britain since 1689 | 3 hours ^b |
| 224 | France: 1500 to 1715 | 3 hours ^b |
| 225 | France: 1715 to 1848 | 3 hours ^b |
| 226 | France since 1848 | 3 hours ^b |
| 227 | Spain: 1469 to 1808 <i>Same as LALS 227</i> | 3 hours ^b |
| 228 | Spain since 1808 <i>Same as LALS 228</i> | 3 hours ^b |
| 233 | History of East Central Europe and the Balkans | 3 hours ^b |
| 234 | History of Poland <i>Same as POL 234</i> | 3 hours ^b |
| 237 | Russia since 1812 | 3 hours ^b |
| 241 | Precolonial Africa <i>Same as AAST 241</i> | 3 hours ^e |
| 242 | Modern Africa <i>Same as AAST 242</i> | 3 hours ^e |
| 255 | History of Chicago | 3 hours ^f |
| 259 | The History of American Women <i>Same as GWS 259</i> | 3 hours ^{bf} |
| 261 | Latin America to 1850 <i>Same as LALS 261</i> | 3 hours ^e |
| 262 | Latin America since 1850 <i>Same as LALS 262</i> | 3 hours ^e |
| 265 | Mexico: 1400 to 1850 <i>Same as LALS 265</i> | 3 hours ^e |
| 266 | Mexico since 1850 <i>Same as LALS 266</i> | 3 hours ^e |
| 271 | Late Imperial China: 1500 to 1911 <i>Same as ASST 271</i> | 3 hours ^e |
| 272 | China since 1911 <i>Same as ASST 272</i> | 3 hours ^e |
| 273 | Japan to 1600 <i>Same as ASST 273</i> | 3 hours ^e |

| | | |
|-----|---|----------------------|
| 274 | Japan since 1600 <i>Same as ASST 274</i> | 3 hours ^e |
| 275 | History of South Asia <i>Same as ASST 275</i> | 3 hours ^e |
| 276 | Modern South Asia, 1857 to the Present <i>Same as ASST 276</i> | 3 hours ^e |
| 277 | The Middle East to 1258 | 3 hours ^e |
| 278 | The Middle East since 1258 | 3 hours ^e |

Honors College (HON)

| | | |
|-----|--|----------------------|
| 120 | Honors Core in Understanding the Individual and Society and Understanding the Past | 3 hours ^b |
| 124 | Honors Core in Understanding the Past and Understanding the Creative Arts | 3 hours ^d |
| 125 | Honors Core in Understanding the Past and Exploring World Cultures | 3 hours ^e |
| 126 | Honors Core in Understanding the Past and Understanding U.S. Society | 3 hours ^f |
| 131 | Honors Core in Analyzing the Natural World and Understanding the Past | 3 hours ^a |
| 141 | Honors Core in Understanding the Past | 3 hours |

Jewish Studies (JST)

| | | |
|-----|---|----------------------|
| 103 | Israel Studies—Narratives of Complex Society | 3 hours ^e |
| 124 | Hebrew Bible <i>Same as CL 124 and RELS 124</i> | 3 hours |
| 242 | The History of Jewish Biblical Interpretation <i>Same as CL 242 and RELS 242</i> | 3 hours |
| 254 | Prophets in Judaism and Islam <i>Same as CL 254 and RELS 254</i> | 3 hours |

Music (MUS)

| | | |
|-----|------|----------------------|
| 114 | Jazz | 3 hours ^d |
|-----|------|----------------------|

Native American Studies (NAST)

| | | |
|-----|--------------------------------------|-----------------------|
| 113 | Native American Studies: Sovereignty | 3 hours ^{ef} |
|-----|--------------------------------------|-----------------------|

Philosophy (PHIL)

| | | |
|-----|---|----------------------|
| 120 | Introduction to Ancient Philosophy <i>Same as CL 120</i> | 3 hours ^b |
|-----|---|----------------------|

Political Science

| | | |
|-----|---|----------------------|
| 120 | Introduction to Political Theory | 3 hours ^b |
| 251 | African Americans and the Law to 1954 <i>Same as AAST 251</i> | 3 hours ^f |
| 252 | African Americans and the Law since 1954 <i>Same as AAST 252</i> | 3 hours ^f |

Religious Studies (RELS)

| | | |
|-----|---|---------|
| 120 | Catholic Thought: An Introduction <i>Same as CST 120</i> | 3 hours |
|-----|---|---------|

Spanish (SPAN)

| | | |
|-----|---|----------------------|
| 230 | Civilization and Culture of Spain | 3 hours ^e |
| 231 | Civilization and Culture of Spanish America | 3 hours ^e |

Theatre (THTR)

| | | |
|-----|-------------------------|----------------------|
| 109 | Introduction to Theatre | 3 hours ^d |
|-----|-------------------------|----------------------|

Understanding the Creative Arts

Courses in literature (e.g., fiction, poetry, drama), the arts (e.g., painting, sculpture, architecture, design, music, theatre and dance, film, photography, new media) and

philosophy examine materials that explore and express the potential of the human imagination. Courses fulfilling this requirement acquaint students with issues involved in making, interpreting, analyzing, and evaluating written texts, musical works, visual and material culture, performing arts, and other media presentations in the context of the histories and cultures that have shaped and been shaped by their production. The aim is to develop the ability to read, experience, and view carefully, to think critically, to argue cogently and to communicate ideas effectively in written and oral form.

All cultures create stories, images, objects, built environments, dramas, music, etc. The study of such cultural products is an area with its own questions, techniques, and traditions. A student taking courses in this area can expect to study, in close detail, a number of significant works of literature, art or other media. Courses in this category should facilitate a student's ability to address one or more of the following questions:

1. Basic issues of interpretation. How does a work mean anything? How does one determine meaning? How can a work have numerous meanings, often at the same time?
2. Questions of poetics. How do the traditions of genres and forms, materials and means of production, and philosophies and theories influence individual literary and artistic works and their interpretation?
3. Questions of value. How can such creative works be evaluated? How are critical vocabularies developed? How does a work come to be called a "classic"? How do new works and genres become accepted as art?
4. Questions of cultural and historical context. How do creative works relate to the societies in which they are produced and received? How do cultural roles of creative products, definitions of art, institutions, markets, and patronage affect the creation of works of architecture, art, music, literature, and other media?

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f = also approved for Understanding U.S. Society

African American Studies (AAST)

| | | |
|-----|--|----------------------|
| 105 | African Americans in Film, 1900–Present: Images, Individuals, and Ideas on Screen <i>Same as COMM 105</i> | 3 hours ^f |
| 110 | Introduction to African American Literature, 1760–1910 <i>Same as ENGL 118</i> | 3 hours ^b |
| 111 | Introduction to African American Literature since 1910 <i>Same as ENGL 119</i> | 3 hours ^f |
| 250 | Comparative Black Literatures <i>Same as ENGL 260</i> | 3 hours ^f |
| 262 | Black Cultural Studies <i>Same as ENGL 262</i> | 3 hours ^f |
| 266 | Topics in African Literature <i>Same as ENGL 266</i> | 3 hours ^e |

Archaeological Studies (ARST)

| | | |
|-----|--|----------------------|
| 210 | The Art and Archaeology of Ancient Egypt <i>Same as AAST 210 and AH 210</i> | 3 hours ^c |
|-----|--|----------------------|

Art History (AH)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Art and Art History | 3 hours |
| 110 | Art History I | 4 hours |
| 111 | Art History II | 4 hours |
| 230 | History of Photography I: 1820–1920 | 3 hours |
| 231 | History of Photography II: 1900 to the Present | 3 hours |
| 242 | Early Christian and Byzantine Art and Architecture | 3 hours |
| 243 | Medieval Art and Architecture | 3 hours |
| 244 | Islamic Art and Architecture | 3 hours ^e |
| 250 | Italian Renaissance Art | 3 hours |
| 251 | Northern Renaissance Art and Architecture | 3 hours |
| 252 | Art of the Baroque and Rococo | 3 hours |
| 260 | European Art from 1750 to 1900 | 3 hours |
| 261 | European and American Art from 1900 to the Present | 3 hours |
| 262 | American Art to 1945 | 3 hours |
| 263 | Latin American Colonial Art <i>Same as LALS 263</i> | 3 hours ^e |
| 264 | African American Art <i>Same as AAST 264</i> | 3 hours ^e |
| 270 | African Art <i>Same as AAST 270</i> | 3 hours ^e |
| 275 | South Asian Visual Cultures | 3 hours ^e |

Classics (CL)

| | | |
|-----|---|----------------------|
| 100 | Greek Civilization | 3 hours ^c |
| 102 | Introduction to Classical Literature | 3 hours ^c |
| 103 | Introduction to Classical and Mediterranean Archaeology | 3 hours ^c |
| 204 | Greek Art and Archaeology <i>Same as AH 204 and HIST 204</i> | 3 hours ^c |
| 205 | Roman Art and Archaeology <i>Same as AH 205 and HIST 205</i> | 3 hours ^c |
| 250 | Greek and Roman Epic Poetry | 3 hours ^c |
| 251 | Greek Tragedy | 3 hours ^c |
| 252 | Greek and Roman Comedy | 3 hours ^c |
| 253 | Roman Satire and Rhetoric | 3 hours ^c |
| 297 | Studies in the Classical Tradition <i>Same as ENGL 297</i> | 3 hours ^c |

Disability and Human Development (DHD)

| | | |
|-----|--------------------|----------------------|
| 176 | Disability in Film | 3 hours ^f |
|-----|--------------------|----------------------|

English (ENGL)

| | | |
|-----|---|----------------------|
| 101 | Understanding Literature | 3 hours |
| 102 | Introduction to Film <i>Same as MOVI 102</i> | 3 hours |
| 103 | English and American Poetry | 3 hours |
| 104 | English and American Drama | 3 hours |
| 105 | English and American Drama | 3 hours |
| 106 | English and American Prose | 3 hours |
| 107 | Introduction to Shakespeare | 3 hours ^c |
| 108 | British Literature and British Culture | 3 hours |

| | | |
|-----|--|-----------------------|
| 109 | American Literature and American Culture | 3 hours ^f |
| 110 | English and American Popular Genres | 3 hours ^b |
| 111 | Women and Literature <i>Same as GWS 111</i> | 3 hours ^b |
| 112 | Introduction to Native American Literatures <i>Same as NAST 112</i> | 3 hours ^f |
| 113 | Introduction to Multiethnic Literatures in the United States | 3 hours ^f |
| 114 | Introduction to Colonial and Postcolonial Literature | 3 hours ^e |
| 115 | Understanding the Bible as Literature <i>Same as JST 115 and RELS 115</i> | 3 hours ^{ce} |
| 117 | Introduction to Gender, Sexuality, and Literature <i>Same as GWS 117</i> | 3 hours ^b |
| 120 | Film and Culture | 3 hours ^b |
| 121 | Introduction to Moving Image Arts | 3 hours |
| 122 | Understanding Rhetoric | 3 hours ^b |
| 123 | Introduction to Asian American Literature | 3 hours ^f |
| 170 | Freshman Colloquium I | 3 hours |
| 171 | Freshman Colloquium I | 3 hours |

French (FR)

| | | |
|-----|---|----------------------|
| 191 | African and Caribbean Francophone Literature in Translation <i>Same as AAST 191</i> | 3 hours ^e |
| 198 | French Literature in Translation | 3 hours ^e |
| 200 | Introduction to the Study of French Literature and Culture | 3 hours ^e |
| 201 | Introduction to French Literature I | 3 hours ^e |
| 202 | Introduction to French Literature II | 3 hours ^c |

Germanic Studies (GER)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Germanic Cultures and Literatures | 3 hours ^e |
| 122 | Minority Perspectives in the Germanic Context <i>Same as JST 122</i> | 3 hours ^e |
| 123 | Introduction to Yiddish Culture and Literature <i>Same as JST 123</i> | 3 hours ^e |
| 217 | German Cinema | 3 hours ^e |
| 218 | Opera in Germanic Cultures: From Mozart to Berg | 3 hours ^c |
| 219 | Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture | 3 hours ^c |

History (HIST)

| | | |
|-----|--|----------------------|
| 260 | American Indians in Popular Culture: Native Americans in Print, Film, and Electronic Media <i>Same as NAST 260</i> | 3 hours ^f |
|-----|--|----------------------|

Honors College (HON)

| | | |
|-----|--|----------------------|
| 121 | Honors Core in Understanding the Individual and Society and Understanding the Creative Arts | 3 hours ^b |
| 124 | Honors Core in Understanding the Past and Understanding the Creative Arts | 3 hours ^c |
| 127 | Honors Core in Understanding the Creative Arts and Exploring World Cultures | 3 hours ^e |
| 128 | Honors Core in Understanding the Creative Arts and Understanding U.S. Society | 3 hours ^f |
| 132 | Honors Core in Analyzing the Natural World and Understanding the Creative Arts | 3 hours ^a |
| 142 | Honors Core in Understanding the Creative Arts | 3 hours |

Italian (ITAL)

| | | |
|-----|--|---------|
| 180 | Italian Cinema | 3 hours |
| 193 | The Divine Comedy <i>Same as RELS 193 and CST 193</i> | 3 hours |
| 210 | Introduction to Reading and Analysis of Italian Literary Texts | 3 hours |

Lithuanian (LITH)

| | | |
|-----|---|----------------------|
| 130 | Lithuanian Prose Fiction in International Context | 3 hours ^e |
|-----|---|----------------------|

Music (MUS)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Music I | 3 hours |
| 107 | Fundamentals of Music Theory | 3 hours |
| 113 | Music Literature: Survey of the Secular Art Song from the Middle Ages to the Present | 3 hours |
| 114 | Jazz | 3 hours ^c |
| 115 | Opera | 3 hours |
| 117 | Music for Symphony Orchestra | 3 hours |
| 119 | Music for the Piano | 3 hours |
| 127 | Latin American Music <i>Same as LALS 127</i> | 3 hours ^e |
| 227 | Music Cultures of the World | 3 hours ^e |

Polish (POL)

| | | |
|-----|--|----------------------|
| 120 | The Polish Short Story in Translation | 3 hours ^e |
| 130 | Masterworks of Polish Literature in Translation | 3 hours ^e |
| 140 | Polish Drama in Translation <i>Same as THTR 140</i> | 3 hours ^e |
| 150 | Introduction to Polish Cinema | 3 hours ^e |
| 241 | Mickiewicz and Sienkiewicz: Polish Romanticism and Realism | 3 hours ^e |

Russian (RUSS)

| | | |
|-----|---|----------------------|
| 120 | The Russian Short Story in Translation | 3 hours ^e |
| 130 | Masterpieces of Russian Literature in Translation | 3 hours ^e |
| 150 | Introduction to Russian Cinema | 3 hours ^e |
| 241 | Dostoevsky | 3 hours |
| 242 | Tolstoy | 3 hours |
| 244 | Women in Russian Literature <i>Same as GWS 244</i> | 3 hours ^e |

Slavic and Baltic Languages and Literatures (SLAV)

| | | |
|-----|---------------------------|----------------------|
| 222 | Modern Serbian Literature | 3 hours ^e |
|-----|---------------------------|----------------------|

Spanish (SPAN)

| | | |
|-----|--|----------------------|
| 190 | Contemporary Latin American Literature in Translation | 3 hours ^e |
| 193 | Spanish Literature in Translation | 3 hours ^e |
| 210 | Introduction to the Reading of Hispanic Texts | 3 hours ^e |
| 211 | Introduction to the Analysis of Hispanic Texts | 3 hours ^e |
| 226 | Early Modern Spanish and Colonial Latin American Literature and Culture in Translation | 3 hours ^e |
| 260 | Mesoamerican Literature and Culture | 3 hours ^e |
| 261 | South American Literature and Culture | 3 hours ^e |

Theatre (THTR)

| | | |
|-----|-------------------------|----------------------|
| 109 | Introduction to Theatre | 3 hours ^c |
| 209 | Modern Theatre | 3 hours |
| 245 | East Asian Theatre | 3 hours |

Exploring World Cultures

A global society demands that individuals gain an appreciation of cultures that are different from their own. Courses in this category explore how cultures function and how they may arise and change, whether through the internationalization of economies, social or political forces, changes in environment, or the development of new technologies. Further, these courses aim to provide students with the necessary tools to study and evaluate disparate social systems and cultural products.

Courses in this category should address significant aspects of any culture that is not part of the mainstream American culture. They should be designed to facilitate the students' ability to do one or more of the following:

1. Analyze a culture, including its political, social, ethical, communicative, or economic systems.
2. Analyze how cultures are formed, transmitted, and changed.
3. Compare different cultures.
4. Explore the values or cultural products of non-U.S. cultures.
5. Analyze the influence of other cultures upon U.S. culture.

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f = also approved for Understanding U.S. Society

African American Studies (AAST)

| | | |
|-----|---|----------------------|
| 229 | Africa and Its Diasporas <i>Same as HIST 229</i> | 3 hours ^c |
| 266 | Topics in African Literature <i>Same as ENGL 266</i> | 3 hours ^d |

Anthropology (ANTH)

| | | |
|-----|---|-----------------------|
| 100 | The Human Adventure | 3 hours ^{bc} |
| 101 | World Cultures: Introduction to Social Anthropology | 3 hours ^b |
| 214 | Sex and Gender in World Cultures <i>Same as GWS 214</i> | 3 hours ^b |
| 216 | Medicine, Culture, and Society | 3 hours ^b |
| 219 | Anthropology of Globalization | 3 hours ^f |
| 273 | Ethnography of Southeast Asia <i>Same as GEOG 273</i> | 3 hours ^b |
| 274 | Ethnography of Africa | 3 hours ^b |
| 275 | South American Indians <i>Same as LALS 255</i> | 3 hours ^b |
| 277 | Ethnography of Mesoamerica <i>Same as LALS 270</i> | 3 hours ^b |
| 278 | Brazil: A Multiethnic Society <i>Same as LALS 272</i> | 3 hours ^b |
| 279 | South Asian Cultures and Societies <i>Same as ASST 279</i> | 3 hours ^b |
| 280 | China and Japan: Society and Culture <i>Same as ASST 280</i> | 3 hours ^b |
| 281 | Ethnography of North Africa and the Middle East | 3 hours ^b |

Arabic (ARAB)

| | | |
|-----|----------------------------------|----------------------|
| 230 | Arabic Literature in Translation | 3 hours |
| 250 | The Heritage of Muslim Iberia | 3 hours ^c |

Art History (AH)

| | | |
|-----|---|----------------------|
| 244 | Islamic Art and Architecture | 3 hours ^d |
| 263 | Latin American Colonial Art <i>Same as LALS 263</i> | 3 hours ^d |
| 264 | African American Art <i>Same as AAST 264</i> | 3 hours ^d |
| 269 | Art and Archaeology of South America <i>Same as ANTH 269</i> | 3 hours |
| 270 | African Art <i>Same as AAST 270</i> | 3 hours ^d |
| 271 | Native American Art | 3 hours |
| 273 | Pre-Columbian Art of South America <i>Same as LALS 239</i> | 3 hours |
| 274 | Pre-Columbian Art of Mesoamerica <i>Same as LALS 240</i> | 3 hours |
| 275 | South Asian Visual Cultures | 3 hours ^d |

Classics (CL)

| | | |
|-----|--|----------------------|
| 104 | Mediterranean Traditions: Family, Society, and the Divine | 3 hours ^c |
| 255 | Greek Science, Islamic Culture <i>Same as ARAB 255</i> | 3 hours ^c |

English (ENGL)

| | | |
|-----|--|-----------------------|
| 114 | Introduction to Colonial and Postcolonial Literature | 3 hours ^d |
| 115 | Understanding the Bible as Literature <i>Same as JST 115 and RELS 115</i> | 3 hours ^{cd} |

French (FR)

| | | |
|-----|---|----------------------|
| 191 | African and Caribbean Francophone Literature in Translation <i>Same as AAST 191</i> | 3 hours ^d |
| 198 | French Literature in Translation | 3 hours ^d |
| 200 | Introduction to the Study of French Literature and Culture | 3 hours ^d |
| 201 | Introduction to Study of French Literature I | 3 hours ^d |

Gender and Women's Studies (GWS)

| | | |
|-----|--|----------------------|
| 102 | Global Perspectives on Women and Gender | 3 hours ^b |
| 262 | Constructions of Gender, Race, Health, and Human Rights | 3 hours ^b |

Geography (GEOG)

| | | |
|-----|---|----------------------|
| 100 | Concepts in Geography | 3 hours ^b |
| 101 | World Regional Geography | 3 hours ^b |
| 151 | Introduction to Cultural Geography | 4 hours ^b |
| 161 | Introduction to Economic Geography | 3 hours ^b |
| 203 | Human Geography of Latin America including the Caribbean Region <i>Same as LALS 217</i> | 3 hours ^b |
| 215 | A Global Geography of Cities | 3 hours ^b |

Germanic Studies (GER)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Germanic Cultures and Literatures | 3 hours ^d |
| 120 | Study of Gender, Class, and Political Issues in German Texts <i>Same as GWS 120</i> | 3 hours ^b |
| 122 | Minority Perspectives in the Germanic Context <i>Same as JST 122</i> | 3 hours ^d |
| 123 | Introduction to Yiddish Culture and Literature <i>Same as JST 123</i> | 3 hours ^d |
| 125 | Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature and Film <i>Same as JST 125</i> | 3 hours ^c |
| 217 | German Cinema | 3 hours ^d |

Greek, Modern (GKM)

| | | |
|-----|-------------------------------------|---------|
| 105 | Modern Greek Culture | 3 hours |
| 203 | Modern Greek Authors in Translation | 3 hours |

History (HIST)

| | | |
|-----|--|-----------------------|
| 106 | The World since 1400 | 3 hours ^c |
| 109 | East Asian Civilization: China <i>Same as ASST 109</i> | 3 hours ^c |
| 110 | East Asian Civilization: Japan <i>Same as ASST 110</i> | 3 hours ^c |
| 115 | Introduction to North American Indian History <i>Same as NAST 115</i> | 3 hours ^{cd} |
| 141 | African Civilization <i>Same as AAST 141</i> | 3 hours ^c |
| 161 | Introduction to Latin American History <i>Same as LALS 161</i> | 3 hours ^c |
| 177 | Middle Eastern Civilization | 3 hours ^c |
| 241 | Precolonial Africa <i>Same as AAST 241</i> | 3 hours ^c |
| 242 | Modern Africa <i>Same as AAST 242</i> | 3 hours ^c |
| 261 | Latin America to 1850 <i>Same as LALS 261</i> | 3 hours ^c |
| 262 | Latin America since 1850 <i>Same as LALS 262</i> | 3 hours ^c |
| 265 | Mexico: 1400 to 1850 <i>Same as LALS 265</i> | 3 hours ^c |
| 266 | Mexico since 1850 <i>Same as LALS 266</i> | 3 hours ^c |
| 271 | Late Imperial China: 1500 to 1911 <i>Same as ASST 271</i> | 3 hours ^c |
| 272 | China since 1911 <i>Same as ASST 272</i> | 3 hours ^c |
| 273 | Japan to 1600 <i>Same as ASST 273</i> | 3 hours ^c |
| 274 | Japan since 1600 <i>Same as ASST 274</i> | 3 hours ^c |
| 275 | History of South Asia <i>Same as ASST 275</i> | 3 hours ^c |
| 276 | Modern South Asia, 1857 to the Present <i>Same as ASST 276</i> | 3 hours ^c |
| 277 | The Middle East to 1258 | 3 hours ^c |
| 278 | The Middle East since 1258 | 3 hours ^c |

Honors College (HON)

| | | |
|-----|--|----------------------|
| 122 | Honors Core in Understanding the Individual and Society and Exploring World Cultures | 3 hours ^b |
| 125 | Honors Core in Understanding the Past and Exploring World Cultures | 3 hours ^c |
| 127 | Honors Core in Understanding the Creative Arts and Exploring World Cultures | 3 hours ^d |
| 129 | Honors Core in Exploring World Cultures and Understanding U.S. Society | 3 hours ^f |
| 133 | Honors Core in Analyzing the Natural World and Exploring World Cultures | 3 hours ^a |
| 143 | Honors Core in Exploring World Cultures | 3 hours |

Human Nutrition (HN)

| | | |
|-----|------------------|---------|
| 202 | Culture and Food | 2 hours |
|-----|------------------|---------|

Japanese (JPN)

| | | |
|-----|--|---------|
| 215 | Japanese Language and Culture <i>Same as LING 215</i> | 3 hours |
|-----|--|---------|

Jewish Studies (JST)

| | | |
|-----|--|----------------------|
| 103 | Israel Studies—Narratives of a Complex Society | 3 hours ^c |
| 203 | Israel Film: Aspects of History, Life, and Culture | 3 hours |

Latin American and Latino Studies (LALS)

| | | |
|-----|---|----------------------|
| 101 | Introduction to Latin American Studies | 3 hours |
| 102 | Introduction to Latino Studies | 3 hours ^f |
| 104 | Introduction to Puerto Rican Studies | 3 hours |
| 105 | Introduction to Mexican Studies | 3 hours |
| 108 | Indigenous Culture Change in Latin America | 3 hours |
| 109 | Introduction to Latin American and Latino Cultural Studies | 3 hours ^f |
| 256 | European-Indigenous Interaction in Latin America <i>Same as ANTH 256</i> | 3 hours |
| 275 | Gender in Latin America <i>Same as GWS 275 and POLS 275</i> | 3 hours |

Linguistics (LING)

| | | |
|-----|------------------------|----------------------|
| 170 | Languages of the World | 3 hours ^b |
|-----|------------------------|----------------------|

Lithuanian (LITH)

| | | |
|-----|---|----------------------|
| 115 | Lithuanian Culture | 3 hours |
| 130 | Lithuanian Prose Fiction in International Context | 3 hours ^d |

Music (MUS)

| | | |
|-----|---|----------------------|
| 127 | Latin American Music <i>Same as LALS 127</i> | 3 hours ^d |
| 227 | Music Cultures of the World | 3 hours ^d |

Native American Studies (NAST)

| | | |
|-----|--------------------------------------|-----------------------|
| 113 | Native American Studies: Sovereignty | 3 hours ^{cf} |
|-----|--------------------------------------|-----------------------|

Philosophy (PHIL)

| | | |
|-----|--|----------------------|
| 141 | Philosophy and Revelation: Jewish and Christian Perspectives <i>Same as RELS 141 and JST 141</i> | 3 hours ^b |
|-----|--|----------------------|

Polish (POL)

| | | |
|-----|---|----------------------|
| 115 | Introduction to Polish Culture | 3 hours |
| 120 | The Polish Short Story in Translation | 3 hours ^d |
| 130 | Masterworks of Polish Literature in Translation | 3 hours ^d |

| | | |
|-----|---|----------------------|
| 140 | Polish Drama in Translation <i>Same as THTR 140</i> | 3 hours ^d |
| 150 | Introduction to Polish Cinema | 3 hours ^d |
| 241 | Mickiewicz and Sienkiewicz: Polish Romanticism and Realism | 3 hours ^d |

Political Science (POLS)

| | | |
|-----|--|----------------------|
| 130 | Introduction to Comparative Politics <i>Same as LALS 130</i> | 3 hours ^b |
| 184 | Introduction to International Relations | 3 hours ^b |
| 231 | Politics in China <i>Same as ASST 231</i> | 3 hours |
| 232 | Politics in Japan and Korea <i>Same as ASST 232</i> | 3 hours |
| 243 | Politics and Government of the Middle East <i>Same as JST 243</i> | 3 hours |
| 245 | Politics and Government of Africa <i>Same as AAST 245</i> | 3 hours |

Religious Studies (RELS)

| | | |
|-----|--|---------|
| 130 | Introduction to Islam | 3 hours |
| 230 | Topics in Islam | 3 hours |
| 250 | Eastern and Western Philosophies of Religion | 3 hours |

Russian (RUSS)

| | | |
|-----|---|----------------------|
| 115 | Russian Culture before the Revolution | 3 hours |
| 116 | Russian Culture: The Soviet Period | 3 hours |
| 120 | The Russian Short Story in Translation | 3 hours ^d |
| 130 | Masterpieces of Russian Literature in Translation | 3 hours ^d |
| 150 | Introduction to Russian Cinema | 3 hours ^d |
| 244 | Women in Russian Literature <i>Same as GWS 244</i> | 3 hours ^d |

Slavic and Baltic Languages and Literatures (SLAV)

| | | |
|-----|---|----------------------|
| 115 | Serbian Culture | 3 hours |
| 116 | Old Slavic and Ukrainian Folklore and Mythology | 3 hours |
| 219 | Serbian Folklore and Folk Mythology | 3 hours |
| 222 | Modern Serbian Literature | 3 hours ^d |

Sociology (SOC)

| | | |
|-----|---------------------------------------|----------------------|
| 268 | Introduction to Comparative Sociology | 3 hours ^b |
|-----|---------------------------------------|----------------------|

Spanish (SPAN)

| | | |
|-----|---|----------------------|
| 190 | Contemporary Latin American Literature in Translation | 3 hours ^d |
| 192 | From the Convent to the Streets: Latin American Women Writers in Translation <i>Same as GWS 192 and LALS 192</i> | 3 hours ^b |
| 193 | Spanish Literature in Translation | 3 hours ^d |
| 210 | Introduction to the Reading of Hispanic Texts | 3 hours ^d |
| 211 | Introduction to the Analysis of Hispanic Texts | 3 hours ^d |
| 225 | Spanish and Latin American Culture through Literature and Film | 3 hours |
| 226 | Early Modern Spanish and Colonial Latin American Literature and Culture in Translation | 3 hours ^d |
| 230 | Civilization and Culture of Spain | 3 hours ^c |
| 231 | Civilization and Culture of Spanish America | 3 hours ^c |
| 260 | Mesoamerican Literature and Culture | 3 hours ^d |
| 261 | South American Literature and Culture | 3 hours ^d |

Understanding U.S. Society

The United States is a country that is often characterized by its diversity, including diversity of cultures, religions, classes, racial and ethnic backgrounds, and gender practices. The aim of this category is to study these diversities, explore the principles and experiences that unite us in the face of them, and perhaps most importantly, to examine critically the social, cultural, and political tensions that arise between that which unites and that which divides us. The goal is thus to understand our society and our political and economic systems, whether to gain knowledge of the past events that have shaped current ones, to gain the means to evaluate critically current policy and to shape future ones, or to develop a deeper understanding of the complexities of our current communities.

Courses in this category should address some significant aspect of U.S. society as their central focus. They should be designed to facilitate the students' ability to do one or more of the following:

1. Analyze aspects of U.S. society.
2. Analyze the communicative, political, social, economic, or cultural systems in the U.S.
3. Explore the diverse communities—racial, ethnic, class, gender, religious, and sexual—that define cultural and political life in the United States.
4. Critically examine the tensions among various groups within U.S. society.
5. Explore contemporary governmental policies.
6. Analyze the role and influence of the U.S. in the world.
7. Study events, ideas, or movements that have influenced U.S. society.

Key to notes listed

a = also approved for Analyzing the Natural World

b = also approved for Understanding the Individual and Society

c = also approved for Understanding the Past

d = also approved for Understanding the Creative Arts

e = also approved for Exploring World Cultures

f = also approved for Understanding U.S. Society

African American Studies (AAS)

| | | |
|-----|---|----------------------|
| 100 | Introduction to African American Studies | 3 hours ^b |
| 103 | African American Politics and Culture <i>Same as POLS 112</i> | 3 hours ^b |
| 104 | Race, Place, and Schooling: African Americans and Education <i>Same as PS 104</i> | 3 hours ^b |
| 105 | African Americans in Film, 1900–Present: Images, Individuals, and Ideas on Screen <i>Same as COMM 105</i> | 3 hours ^d |
| 111 | Introduction to African American Literature since 1910 <i>Same as ENGL 119</i> | 3 hours ^d |
| 120 | African American Religious Traditions | 3 hours ^c |
| 201 | The Psychology of African Americans <i>Same as PSCH 201</i> | 3 hours ^b |
| 202 | African American Behavioral Patterns <i>Same as PSCH 202</i> | 3 hours ^b |
| 203 | The African American Family in the United States <i>Same as SOC 203</i> | 3 hours ^b |
| 247 | African American History to 1877 <i>Same as HIST 247</i> | 3 hours ^c |

| | | |
|-----|---|----------------------|
| 248 | African American History since 1877 <i>Same as HIST 248</i> | 3 hours ^c |
| 249 | Black Freedom Movements in the U.S. | 3 hours ^c |
| 250 | Comparative Black Literatures <i>Same as ENGL 260</i> | 3 hours ^d |
| 262 | Black Cultural Studies <i>Same as ENGL 262</i> | 3 hours ^d |
| 265 | The Harlem Renaissance <i>Same as ENGL 265</i> | 3 hours ^c |
| 271 | African Americans and the Politics of Incarceration <i>Same as CLJ 271 and SOC 271</i> | 3 hours ^b |
| 272 | Race, Gender, and Sexuality <i>Same as GWS 272</i> | 3 hours ^b |

Anthropology (ANTH)

| | | |
|-----|---|----------------------|
| 219 | Anthropology of Globalization | 3 hours ^e |
| 270 | The First Americans | 3 hours ^b |
| 271 | American Indian Religion and Philosophy | 3 hours ^b |

Catholic Studies (CST)

| | | |
|-----|---|---------|
| 150 | Catholicism in U.S. History <i>Same as RELS 150 and HIST 150</i> | 3 hours |
|-----|---|---------|

Criminology, Law, and Justice (CLJ)

| | | |
|-----|------------------------------------|---------|
| 101 | Introduction to the Justice System | 3 hours |
| 102 | Foundations of Law and Justice | 3 hours |
| 110 | Rights, Justice, and the Law | 3 hours |
| 114 | Race, Class, Gender, and the Law | 3 hours |
| 120 | Crime and Society | 3 hours |
| 121 | Violence in America | 3 hours |
| 200 | Law in Society | 3 hours |

Disability and Human Development (DHD)

| | | |
|-----|--------------------|----------------------|
| 176 | Disability in Film | 3 hours ^d |
|-----|--------------------|----------------------|

Economics (ECON)

| | | |
|-----|--------------------------------------|----------------------|
| 120 | Principles of Microeconomics | 3 hours ^b |
| 121 | Principles of Macroeconomics | 3 hours ^b |
| 130 | Principles of Economics for Business | 5 hours ^b |

Education (ED)

| | | |
|-----|--|----------------------|
| 100 | Introduction to Urban Education | 3 hours ^b |
| 135 | Child and Youth Policies in Urban America | 3 hours |
| 205 | Introduction to Race, Ethnicity, and Education | 3 hours ^b |
| 222 | Introduction to Gender, Sexuality, and Education | 3 hours ^b |
| 252 | Contemporary Controversies in U.S. Schools | 3 hours |
| 258 | Bilingualism and Cross-Cultural Issues in a Diverse Society | 3 hours ^b |

English (ENGL)

| | | |
|-----|---|----------------------|
| 109 | American Literature and American Culture | 3 hours ^d |
| 112 | Introduction to Native American Literatures <i>Same as NAST 112</i> | 3 hours ^d |
| 113 | Introduction to Multiethnic Literatures in the United States | 3 hours ^d |
| 123 | Introduction to Asian American Literature <i>Same as ASAM 123</i> | 3 hours ^d |
| 125 | Introduction to Asian American Studies <i>Same as ASAM 125 and SOC 125</i> | 3 hours ^b |

Gender and Women's Studies (GWS)

| | | |
|-----|--|----------------------|
| 101 | Gender in Everyday Life | 3 hours ^b |
| 204 | Gender and Popular Culture <i>Same as COMM 204</i> | 3 hours ^b |
| 252 | Sexuality in America: Historical Perspectives <i>Same as HIST 252</i> | 3 hours ^c |

Geography (GEOG)

| | | |
|-----|---|----------------------|
| 202 | Geography of the United States and Canada | 3 hours ^b |
| 211 | Chicago: An Urban Geography | 3 hours ^b |
| 241 | Resource Problems in the United States | 3 hours ^b |

History (HIST)

| | | |
|-----|---|-----------------------|
| 103 | American Civilization to the Late Nineteenth Century | 3 hours ^c |
| 104 | American Civilization since the Late Nineteenth Century | 3 hours ^c |
| 115 | Introduction to North American Indian History <i>Same as NAST 115</i> | 3 hours ^{ce} |
| 255 | History of Chicago | 3 hours ^c |
| 259 | The History of American Women <i>Same as GWS 259</i> | 3 hours ^{bc} |
| 260 | American Indians in Popular Culture: Native Americans in Print, Film, and Electronic Media <i>Same as NAST 260</i> | 3 hours ^d |

Honors College (HON)

| | | |
|-----|--|----------------------|
| 123 | Honors Core in Understanding the Individual and Society and Understanding U.S. Society | 3 hours ^b |
| 126 | Honors Core in Understanding the Past and Understanding U.S. Society | 3 hours ^c |
| 128 | Honors Core in Understanding the Creative Arts and Understanding U.S. Society | 3 hours ^d |
| 129 | Honors Core in Exploring World Cultures and Understanding U.S. Society | 3 hours ^e |
| 134 | Honors Core in Analyzing the Natural World and Understanding U.S. Society | 3 hours ^a |
| 144 | Honors Core in Understanding U.S. Society | 3 hours |

Jewish Studies (JST)

| | | |
|-----|--|----------------------|
| 101 | Introduction to Jewish Studies: Literature and Society | 3 hours ^b |
| 102 | Introduction to Jewish Studies: Religion and Culture | 3 hours ^b |

Latin American and Latino Studies (LALS)

| | | |
|-----|---|----------------------|
| 102 | Introduction to Latino Studies | 3 hours ^e |
| 103 | Introduction to Latino Urban Studies | 3 hours |
| 109 | Introduction to Latin American and Latino Cultural Studies | 3 hours ^e |
| 283 | Latinos and Politics <i>Same as POLS 209</i> | 3 hours |
| 295 | Latino Literary Studies <i>Same as ENGL 295 and SPAN 295</i> | 3 hours |

Linguistics (LING)

| | | |
|-----|----------------------|----------------------|
| 160 | Language and Society | 3 hours ^b |
|-----|----------------------|----------------------|

Native American Studies (NAST)

| | | |
|-----|--------------------------------------|-----------------------|
| 113 | Native American Studies: Sovereignty | 3 hours ^{ce} |
|-----|--------------------------------------|-----------------------|

Philosophy (PHIL)

| | | |
|-----|---|----------------------|
| 104 | Introduction to Social/Political Philosophy | 3 hours ^b |
|-----|---|----------------------|

Political Science (POLS)

| | | |
|-----|---|----------------------|
| 101 | Introduction to American Government and Politics | 3 hours ^b |
| 103 | Who Rules?: Introduction to the Study of Politics | 3 hours |
| 251 | African Americans and the Law to 1954 <i>Same as POLS 251</i> | 3 hours ^c |
| 252 | African Americans and the Law since 1954 <i>Same as POLS 252</i> | 3 hours ^c |

Sociology (SOC)

| | | |
|-----|---|----------------------|
| 100 | Introduction to Sociology | 3 hours ^b |
| 105 | Social Problems | 3 hours ^b |
| 215 | Sociology of Childhood and Youth | 3 hours ^b |
| 224 | Gender and Society <i>Same as GWS 224</i> | 3 hours ^b |
| 225 | Racial and Ethnic Groups <i>Same as AAST 225 and LALS 225</i> | 3 hours ^b |
| 228 | Sociology of Asia and Asian Americans <i>Same as ASAM 228 and ASST 228</i> | 3 hours ^b |
| 229 | Sociology of Latinos <i>Same as LALS 229</i> | 3 hours ^b |
| 241 | Social Inequalities | 3 hours ^b |
| 244 | Sociology of Work | 3 hours ^b |
| 245 | Marriage and Family | 3 hours ^b |
| 246 | Sociology of Religion <i>Same as RELS 246</i> | 3 hours ^b |
| 251 | Health and Medicine | 3 hours ^b |
| 276 | Urban Sociology | 3 hours ^b |

Spanish (SPAN)

| | | |
|-----|--|---------|
| 224 | Bilingual/Bicultural Hispanic American Writers | 3 hours |
|-----|--|---------|

Urban Planning and Policy (UPP)

| | | |
|-----|-------------------------------|---------|
| 101 | Introduction to Urban Studies | 3 hours |
| 202 | Planning Great Cities | 3 hours |

University Degree Requirements, Graduation, and Commencement

University Degree Requirements

UIC has several degree requirements that apply to all students pursuing an undergraduate degree, regardless of major. University degree requirements serve as minimum standards; many colleges set higher standards than the minimum required by the University. A student must always fulfill the degree requirements outlined by the major college.

University degree requirements bring a level of consistency and quality to all undergraduate degrees awarded at UIC. By setting standards that are met or exceeded by the colleges, the University ensures the integrity of all the degrees it awards.

University degree requirements include the following:

- General Education Requirements (see the *General Education* section of the catalog)
- Grade Point Average Requirement
- Enrollment Residence Requirement
- Semester Hour Requirement

The minimum University degree requirements are outlined below. **Important Note: Students should consult their college section of the catalog for specific information on how to meet the degree requirements set by the college.**

General Education Requirements

Students should consult the *General Education* section of the catalog for a complete description of the University's General Education Program as well as their college/department sections of the catalog to determine how to fulfill the General Education requirements within their degree program.

Grade Point Average (GPA) Requirement

All candidates for a degree must have at least a 2.00/4.00 grade point average in all work taken at the University of Illinois at Chicago, in all work taken in the major field, and in all work accepted by the University (transfer work plus work taken at UIC). A student may be required to meet higher minimum grade point averages in certain degree programs.

Students should consult their college section of the catalog for more information on the grade point average requirement for their degree program.

Enrollment Residence Requirement

The enrollment residence requirement must be satisfied. In all academic units except the College of Business Administration, either the first 90 semester hours or the last 30 semester hours of University work must be taken at UIC. In the College of Business Administration, the last 30 semester hours must be taken at UIC. In addition, at least one-half of the semester hours required in the student's major area of study must be completed at UIC. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution, or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement for graduation. Credit earned through CLEP and proficiency examinations, and through

the University of Illinois Guided Individual Study and extramural courses, neither applies toward nor interrupts the enrollment residence requirement. Under exceptional circumstances, the enrollment residence requirement may be waived by the dean of the student's college upon petition of the student.

Enrollment Residence Requirement in the Minor

A student must complete at least one-half of the course work required for the minor field in enrollment residence at the University of Illinois at Chicago.

Semester Hour Requirement

The minimum number of semester hours required for a degree is 120. The required number of hours varies within the colleges, schools, and degree programs. The student should refer to the section of this catalog that covers the college and curriculum to determine the hours required for a particular degree. The college office also provides this information.

Policies Affecting Degree Requirements and Graduation

Admission Requirements

All admission requirements for the student's chosen degree program must be met.

Deficiencies

All deficiencies in entrance credit must be removed prior to graduation.

Degree Program Name Change

If a college, school, department, or program changes the name of a major or curriculum or the title of a degree program as a result of reorganization, continuing students in the affected major, curriculum, or degree program will be transferred to the newly titled/named major, curriculum, or degree program.

Degree Requirements

Students must meet all requirements of their chosen college and degree program.

When degree requirements change, continuing students and those whose attendance has been interrupted for no more than two years may choose either the new requirements or the degree requirements in effect at the time the students were admitted. Students whose attendance has been interrupted for more than two years are responsible for meeting the requirements of the University and college as well as the degree program in effect at the time of the student's reenrollment.

If a curriculum is eliminated in its entirety, or if required courses are eliminated from a particular curriculum, the department, school, or college reserves the right to offer substitute courses as deemed appropriate by the unit's faculty. Students may have to fulfill new requirements when external accrediting or certifying agencies change their professional requirements.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. Some colleges require students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. Normally, courses with a C grade may not be repeated. Courses with D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college dean. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course **is not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Double Major, Double Degrees, and Second Bachelor's Degree

The following general definitions are offered for informational purposes. Students should consult their college section of the catalog for information about the options available to them and the policies associated with those options. In addition, students should check with an academic advisor before pursuing one of these options.

Double Major

A double major consists of one bachelor's degree with two majors. A double major does not ordinarily have, as a requirement, additional semester hours beyond those required for a single major. To double major, students must complete all of the requirements for two majors within one college. A double major is generally not permitted when there is substantial overlap in course work between the two majors.

Double Degrees

Double degrees consist of two bachelor's degrees completed concurrently. Double degrees require a minimum of 30 additional semester hours beyond those required for the first degree. To receive double degrees, students must

formally request acceptance into the second degree program and complete all requirements for each of the degree programs. Double degrees can be within one college or across two colleges. Students who obtain double degrees receive a diploma for each degree. Double degrees are generally not permitted when there is substantial overlap in course work between the two degree programs. No more than two bachelor's degrees may be awarded concurrently.

Second Bachelor's Degree

A second bachelor's degree is available only for students who have already been awarded a bachelor's degree at UIC or another institution. A second bachelor's degree requires a minimum of 30 semester hours at UIC after completion of the first degree. Students must apply to, be admitted, and complete the requirements for the second bachelor's degree. A second bachelor's degree is generally not permitted when there is substantial overlap in course work between the first and second degrees. Students pursuing two degrees concurrently must follow the policies for Double Degrees, not Second Bachelor's Degree.

Guidelines Regarding Academic Integrity

As an academic community, the University of Illinois at Chicago is committed to providing an environment in which research, learning, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the campus community—students, staff, faculty, administrators—share the responsibility of insuring that these standards are upheld so that such an environment exists. Instances of academic misconduct by students, and as defined herein, shall be handled pursuant to the *Student Disciplinary Policy* which is available online

http://www.vcsa.uic.edu/NR/rdonlyres/C10B0B31-31AD-4386-9A7A-17CA7A579C2D/962/Student_Discipline_Book.pdf.

Academic dishonesty includes, but is not limited to:

Cheating

Either intentionally using or attempting to use unauthorized materials, information, people, or study aids in any academic exercise, or extending to or receiving any kind of unauthorized assistance on any examination or assignment to or from another person.

Fabrication

Knowing or unauthorized falsification, reproduction, lack of attribution, or invention of any information or citation in an academic exercise.

Facilitating Academic Dishonesty/Plagiarism

Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise.

Bribes, Favors, Threats

Bribing or attempting to bribe, promising favors to or making threats against, any person, with the intention of affecting a record of a grade, grade, or evaluation of academic performance. Any conspiracy with another person who then takes or attempts to take action on behalf of or at the direction of the student.

Examination by Proxy

Taking or attempting to take an exam for someone else other than the student is a violation by both the student enrolled in the course and the proxy or substitute.

Grade Tampering

Any unauthorized attempt to change, actual change of, or alteration of grades or any tampering with grades.

Nonoriginal Works

Submission or attempt to submit any written work authored, in whole or part, by someone other than the student.

Student Disciplinary Policy

The *Student Disciplinary Policy* is the University's process to handle allegations of misconduct by UIC students. The *Student Disciplinary Policy* addresses both academic misconduct (such as plagiarism, cheating, or grade tampering) and behavioral misconduct (such as theft, assault, underage drinking, and drug use.)

The main purpose of the *Student Disciplinary Policy* is to insure that students receive due process—which means that every student should have a fair opportunity to express their side of the story before any decisions are made about their disciplinary case. The *Student Disciplinary Policy* was designed to be educational in nature. The *Student Disciplinary Policy* is available online at http://www.vcsa.uic.edu/NR/rdonlyres/C10B0B31-31AD-4386-9A7A-17CA7A579C2D/962/Student_Discipline_Book.pdf.

Student Academic Grievance Procedures

The Student Academic Grievance Procedures define an administrative process through which students may seek resolution of complaints or Grievances regarding academic standing during their enrollment at UIC.

Student Academic Grievance Procedures Eligibility

- A. These Procedures *may only* be used by Students:
 1. with a Complaint or Grievance regarding academic standing during their enrollment at UIC.
 2. about an academic decision made about them by an agent (e.g., faculty or staff member, administrator, committee) of the University of Illinois at Chicago that directly and adversely affects the Student.
- B. These Procedures may *not* be used:
 1. in deciding or appealing issues relating to student discipline under the purview of the Senate Student Judiciary Committee;
 2. in resolving any complaint, request, or question involving student records subject to campus procedures established under the Family Educational Rights and Privacy Act (FERPA) and contained in the Guidelines and Procedures Governing Student Records (http://www.uic.edu/depts/oar/rr/records_policy.shtml);
 3. by applicants for admission;
 4. in review of any decision by any university administrator or properly constituted board or committee relating to allocation of resources to support any unit's projects or programs.

For a complete description of the procedures, students should consult the Web site http://www.uic.edu/depts/oa/policies_proced.html.

Graduation with Honors

The UIC Senate and the University of Illinois Board of Trustees establish the criteria under which students are awarded department, college, and University honors. Campus standards for college and department honors are described below. Currently applicable standards appear in the appropriate college and department sections of this catalog.

Departmental Honors

Departmental Distinction shall be based on grade point average and on other criteria considered appropriate by the department in which the major is completed and by its college. The transcripts carry the designation distinction, high distinction, or highest distinction, as appropriate.

General College Honors

General College Honors shall be awarded to a specific percentage of students, to be decided by the college, but not to exceed 15 percent of the students graduating in the college. The diploma and transcript carry the notation of such an award. Graduation with college honors benefits the student when being considered for a graduate fellowship, job placement, or some other competitive opportunity.

University Honors

University Honors are awarded to graduating students whose overall (UIC institutional plus transfer work, if applicable) grade point average falls within the following honors categories:

| | |
|-----------------|----------------|
| Summa cum laude | 3.90 and above |
| Magna cum laude | 3.75 to 3.89 |
| Cum laude | 3.50 to 3.74 |

Transfer students must have earned a minimum of 42 hours at the University of Illinois at Chicago at the end of the term prior to the term of graduation and have a minimum of 60 hours completed at UIC upon graduation.

In addition, transfer students must have an institutional (UIC) grade point average of 3.50 in order to qualify for University Honors.

Commencement

Degrees

A degree from the University of Illinois at Chicago is awarded by action of the Board of Trustees on recommendation of the appropriate college and the Senate. Degrees are awarded three times a year, at the end of the fall, spring, and summer terms. The student receives the degree in a stated curriculum.

Students completing all degree requirements for their declared major will need permission from their college to enroll in additional undergraduate courses.

Commencement

The colleges hold their own commencement ceremonies at the end of the spring semester. At each college ceremony, undergraduate, graduate, and professional degree students are individually recognized as degrees are conferred. Graduates from the preceding summer and fall terms and current spring semester are eligible to participate in the Spring Commencement ceremonies.

Check with the college for eligibility requirements. Additional information, including the schedule of ceremonies, maps and parking, and cap and gown information, can be found online <http://www.vcsa.uic.edu/MainSite/departments/commencement/home>.

Diplomas

Diplomas for both undergraduate and graduate students are mailed approximately three to four months after the degree award date.

Change of Name

To be reflected on the diploma, name changes must be submitted to the Office of Registration and Records, 1200 Student Services Building, by the last day of the degree expected term.

Duplicate Diplomas

If the original diploma is destroyed, a duplicate diploma may be ordered by contacting the Office of Registration and Records, 1200 Student Services Building. There is a fee for the replacement diploma, and it bears the signatures of the current officials of the State and University.

College of Applied Health Sciences

Dean, Charlotte (Toby) Tate

560 Applied Health Sciences Building (AHSB)

ahsinfo@uic.edu

<http://www.ahs.uic.edu>

Student Affairs Office: (312) 996-2079

Administration: (312) 996-6695

Biomedical and Health Information Sciences:
(312) 996-7337

Disability and Human Development: (312) 413-1647

Kinesiology and Nutrition: (312) 996-4600

Occupational Therapy: (312) 996-6901

Physical Therapy: (312) 996-7784

Introduction

Nationally prominent in research, service, and education, the College of Applied Health Sciences (AHS) is a leader in applied rehabilitation and disability studies. The college houses five departments: Biomedical and Health Information Sciences, Disability and Human Development, Kinesiology and Nutrition, Occupational Therapy, and Physical Therapy.

A variety of degree programs is offered in the areas of biomedical visualization, disability studies, health informatics, health information management, nutrition, kinesiology, occupational therapy, and physical therapy. The college offers three bachelor's degrees, six master's degrees, and four doctoral programs.

The research efforts of the multidisciplinary faculty are directed toward new and applied knowledge in aging and disability studies, health information sciences, and health promotion and disease prevention. The college's research and educational programs are substantially strengthened by the unification of the academic departments with their clinical counterparts in the University of Illinois at Chicago Medical Center.

The mission of the College of Applied Health Sciences is to prepare professionals for the advancement of health and of healthcare and its related aspects of human development, performance, and adaptation. The principal means through which this mission is accomplished is by actively integrating teaching, research, and service. The college's first priority is the education of its students, which includes fostering their capacity for compassion, dedication, and advocacy. As a major component of an urban land grant institution, the college is committed to diversity, community needs, and the creation and dissemination of new knowledge.

The college encourages and accommodates the participation of persons with disabilities in all of its programs.

Accreditation

Each of the college's professional programs is accredited by the appropriate accrediting agency and most serve as national models in education. For information on specific accreditation, refer to the appropriate program in the following sections of this catalog.

Degree Programs

The College of Applied Health Sciences houses both traditional undergraduate BS programs as well as professional BS programs. Students can pursue an undergraduate professional course of study in either the Health Information Management program or the Nutrition Coordinated Program. The undergraduate professional course of study is arranged in two phases: completion of preprofessional

course work and two years of professional course work at UIC leading to professional baccalaureate degrees in health information management or nutrition. Prerequisite courses equivalent to those offered by the University of Illinois at Chicago may be completed at any accredited college or university. The college's professional programs coordinate classroom instruction with clinical experience in a variety of healthcare facilities in Chicago and surrounding areas throughout the two years of the program. The two-year professional programs begin with the fall semester of each academic year. Completion of professional program graduation requirements culminating in a baccalaureate degree qualifies the graduate to take the appropriate national certification examinations. Information about the examinations will be provided by the academic program during matriculation. Professional certification is necessary and in most cases mandatory for practice.

The traditional BS programs are housed in the Kinesiology and Nutrition department. These programs help prepare students for professional studies at the graduate level in areas, such as physical therapy, nutrition, medicine, dentistry, and nursing or direct entry into careers in the health and fitness industries. The Department of Kinesiology and Nutrition accepts students at the freshman and transfer level and awards the BS in Kinesiology and the BS in Nutrition. There are two concentrations available in the Kinesiology program: Movement Science or Exercise and Fitness. Both programs encourage undergraduate participation in research; there are ample opportunities for undergraduates to become engaged in exciting research projects in state-of-the-art laboratories that are under the direction of world-class scientists. The Exercise and Fitness concentration includes an optional internship. Students may choose among a variety of health and fitness settings in Chicago and surrounding areas. This concentration prepares students to take an optional certification test from the American College of Sports Medicine. The Nutrition program admits students to the Nutrition Science program at the transfer level only and awards the BS in Nutrition. The Nutrition Science program is an accredited "Didactic Program in Dietetics," enabling graduates to apply for a dietetic internship at sites approved by the American Dietetic Association <http://www.eatright.org/cps/rde/xchg/ada/hs.xsl/index.html>.

The professional occupational therapy program is offered at the master's (MS in Occupational Therapy) and doctoral (OTD, Doctor of Occupational Therapy) levels. The professional physical therapy entry-level program is offered through the Doctor of Physical Therapy (DPT) program. For more information about these programs, contact the Department of Occupational Therapy at (312) 996-6901 or the Department of Physical Therapy at (312) 996-1505 or visit the college Web site <http://www.ahs.uic.edu/>.

Students planning to pursue a professional degree in Occupational Therapy or Physical Therapy should consult the *Preprofessional Studies* information listed at the end of the AHS section of the catalog for information on recommended courses.

Degree Requirements

To earn a College of Applied Health Sciences degree from UIC, students need to complete University, college, and department degree requirements. University and college degree requirements for all College of Applied Health Sciences students are outlined below. Students should consult the major department section for additional degree requirements.

Since the catalog is published in alternate years, changes to the graduation requirements may be announced in an online format. If requirements change, continuing students

in AHS and those whose attendance at UIC has been interrupted for no more than two years, may continue to meet those requirements in effect at the time of their initial registration or may choose to complete the revised requirements. Students who return to UIC after an absence of more than two years are responsible for meeting the requirements of the University and college as well as the major or curriculum in effect at the time of the student's reenrollment. For all students, however, if courses originally required are no longer offered or if external accrediting or certifying agencies modify their requirements, the college or department will specify course substitutes.

Semester Hour Requirement (see below)

Course Requirements

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. Students are required to complete a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses for each General Education Core category, students should consult the *General Education* section of the catalog. Information on meeting the General Education requirements for each degree program is provided in the College of Applied Health Sciences department sections.

General Education Proficiencies— University Writing Requirement

Applied Health Sciences students meet the requirement by achieving a passing grade in English 160 and 161.

Other Requirements

Course Level Requirement

At least 9 hours of the elective course work taken by students in the Kinesiology curriculum must be taken at the 300- or 400-level. Nutrition and Health Information Management students follow a prescribed curriculum.

Enrollment Residence Requirement

Candidates for a bachelor's degree from the College of Applied Health Sciences must earn the last 30 semester hours of credit in enrollment residence uninterrupted by any work at another institution. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement

Semester Hour Requirement

The College of Applied Health Sciences semester hour requirement varies by degree program.

| Degree Program | Department | Degree Conferred | Total Hours |
|----------------------------------|--|-------------------------------------|-------------|
| Health Information Management | Biomedical and Health Information Management | BS in Health Information Management | 122 |
| Nutrition—Coordinated Program | Kinesiology and Nutrition | BS in Nutrition | 140 |
| Nutrition—Nutrition Science | Kinesiology and Nutrition | BS in Nutrition | 120 |
| Kinesiology—Movement Science | Kinesiology and Nutrition | BS in Kinesiology | 120 |
| Kinesiology—Exercise and Fitness | Kinesiology and Nutrition | BS in Kinesiology | 120 |

for graduation. A student must complete at least one-half of the course work required for their major field, excluding collateral course requirements, in enrollment residence at the University of Illinois at Chicago. The major course work completed in enrollment residence must include 12 hours at the advanced level. Students enrolled in professional programs, Health Information Management and Nutrition, must complete all of their professional course work at the University of Illinois at Chicago. Upon successful completion of a proficiency examination, exceptions may be made to the major requirement for students in the Health Information program who are currently Registered Health Information Technicians (RHIT).

Work taken at the Springfield and Urbana-Champaign campuses of the University of Illinois does not satisfy enrollment residence requirements. Credit earned through proficiency examinations including the College Level Examination Program (CLEP), UIC extension courses, and Urbana-Champaign distance-learning courses does not apply toward the minimum 30-semester hour enrollment residence requirement. Study abroad and distance-learning courses that have been approved by the student's major department and by the college are not considered an interruption of enrollment residence for students.

Full-Time Enrollment

The Nutrition—Coordinated Program is a full-time, day program. The Health Information Management program is available on a full- or part-time basis. This is a day program with classes from morning to early afternoon. Enrollment is limited. Although health information technology course credits do not count toward the required 60 semester or 90 quarter hours of prerequisites, an RHIT can attempt to competency test out of the specific courses during the junior year. The Kinesiology and Nutrition—Nutrition Science programs can be completed on a part-time basis.

Grade Point Average (GPA) Requirement

Certain academic programs may require a minimum grade of C in selected, specific courses or a higher overall GPA. Students are informed of such requirements in writing at the beginning of the first term they are registered in the college (through program handbooks). All candidates for a degree must have a GPA of at least 2.00/4.00 for all UIC credits counted for graduation requirements and at least 2.00 for the combined transfer and UIC credits counted for graduation requirements. A minimum GPA of 2.00/4.00 for all courses in the major field is also required. Some academic programs within the college require a higher GPA for graduation. Refer to the student handbook for each program's specific requirements.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in

which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Students in the Department of Kinesiology and Nutrition must also declare their intent to graduate with their academic advisor at least one term prior to their intended graduation date.

Transfer Credit

When transferring credit from a community college after attaining junior status, a student must earn at least 60 hours from the University or another approved four-year college or university after attaining junior standing. Students are obligated to report all work from other institutions once enrolled at UIC.

Transfer Credit for Continuing Students

Continuing students who would like to take a course at another institution must petition their academic department for approval prior to enrolling in the course.

College Policies

The following statements define general academic policies of the College of Applied Health Sciences, and include the procedures involving determination of academic probation and failure and channels for appeal of adverse decisions. Students should refer to their program handbooks for specific information.

Academic Load

Students registered for 12 or more hours during the fall or spring terms or for 6 hours or more in the summer term are considered full time. Students must request permission from their academic department to exceed 18 hours of enrolled course work.

Academic Performance

It is required that students of the college achieve a minimum level of academic performance, which is assessed periodically during the prescribed course of study. Academic programs may require a minimum grade of C in selected, specific courses or a higher overall GPA. A student who receives a grade below C in any required academic course may be dismissed from the program, even if not on academic probation. Refer to the specific program student handbook. Students must complete all required courses with a grade of C or better prior to progression to clinical instruction and practice. Courses with clinical components must be completed with a satisfactory grade.

Academic Probation and Dismissal Rules

Probation Rules

Academic probation designates the status of a student who has failed to attain the acceptable level of academic achievement as defined below:^a

1. An overall grade point average of 2.00/4.00 in all courses designated as professional course work or an academic major offered by the department in which the student is enrolled;
2. A grade point average of 2.00/4.00 for each semester completed in the College of Applied Health Sciences;
3. A cumulative grade point average of 2.00/4.00 following matriculation into the College of Applied Health Sciences;
4. Satisfactory attainment of competencies prescribed and published for any particular course.

Removal from probationary status is dependent upon earning a minimum 2.00 grade point average (GPA) during the probation semester, and in subsequent terms achieving a grade point average that is sufficiently above 2.00 to maintain a GPA of 2.00 or above for all work in the College of Applied Health Sciences.

^a The probation guidelines described above apply to the Kinesiology, Nutrition Science, and Health Information Management programs. Students enrolled in the Nutrition Coordinated program must maintain a 3.00/4.00 for professional/major, UIC, semester, and cumulative grade point averages.

Dismissal Rules

The College of Applied Health Sciences reserves the right to terminate a student's enrollment. Continuation in the professional programs is also contingent upon maintaining additional standards as outlined in the specific program student handbook. Such action will be initiated when the faculty of the program in which the student is enrolled deems it inadvisable for the student to continue toward completion of the course of study. The conditions contributing to this determination by the faculty may include but are not limited to:

1. Failure to meet the college's minimum grade point average standard 2.00/4.00, or the program minimum requirements which can include a higher overall GPA (refer to program student handbook);
2. Inadequate achievement and maintenance of professional performance, including performance during instruction in clinical sequences, personal deportment, and character deemed inconsistent with ethical standards of behavior for members of the health professions;
3. Unsatisfactory progress toward completion of the degree requirements.

Change of Course Schedule—Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program.

College of Applied Health Sciences students should contact their individual programs, at the following locations, to make changes to their schedule: Health Information Management, Room 250 AHSB, (312) 996-3530; Kinesiology and Nutrition, for Kinesiology programs, Room 337 PEB, (312) 996-4600, and for Nutrition programs, Room 647 AHSB, (312) 355-1908. Since W grades will impact a student's completion ratio for financial aid, it is recommended that they consult their financial aid counselor to determine the financial implications of dropping a class.

Change of Major

In order for a student to be admitted to professional programs in the college, a student must complete supplemental application materials available in the individual departments prior to the specified deadline dates. Students are only admitted into the Nutrition and Health Information Management programs in the fall term. Students are admitted to the Kinesiology program in the fall and spring terms. Students who would like to change their major to Kinesiology should meet with the academic advisor in the Kinesiology program and, if available, bring with them a completed Change of College/Curriculum form which can be found on the AHS Web site <http://www.ahs.uic.edu>.

Class Attendance

It is expected that students will attend all lectures and laboratory sessions. Prompt and regular attendance is required for all scheduled activities. An absence may be excused if it is unavoidable or justified. The student is responsible for notifying the academic program and clinic each day that he or she will be absent from class or clinic, preferably prior to the absence when possible. Excused absences will be given if a student has a serious illness or if there is a death of a family member.

Unexcused absences may be reflected in the course grade in a manner determined by the course instructors and in accordance with the policies of the University. Students with unexcused absences may be asked to leave the program.

Course Prerequisites

Students must complete all prerequisite course work prior to beginning their professional programs in Health Information Management and Nutrition. In exceptional cases, a department may waive prerequisite course work for a student. In some cases, a proficiency examination will be given.

Credit/No Credit Option

The credit/no credit option will not be accepted for required course work as specified by the department. Grades for credit/no credit are not used in the computation of the grade point average. Students must apply at their college office no later than the tenth day of the term (first Wednesday of Summer Session 1 or first Friday of Summer Session 2) to have a course designated for credit/no credit grading option.

Declaring a Major

Admission to the Health Information Management and Nutrition programs provides automatic declaration of a major. Students in the Kinesiology programs must make an appointment with an academic advisor in the department to declare their major. A student must declare a major no later than upon completion of 60 semester hours. Transfer students entering with 60 semester hours or more must declare a major by the end of their first term at UIC. However, earlier declaration is recommended.

Double Major, Double Degrees, and Second Bachelor's Degree**Double Major**

This option is not available in the College of Applied Health Sciences. Students interested in completing degrees in both Kinesiology and Nutrition should follow the instructions under the *Double Degrees* section below.

Double Degrees

Double degrees consist of two bachelor's degrees completed concurrently. Students seeking two bachelor's degrees concurrently must formally request acceptance into the second degree program. Students must complete a minimum of 30 semester hours beyond those required for the first degree and all requirements for each of the degree programs as specified by the college and major department. All students interested in double degrees should discuss this option with an advisor.

Double degrees are not permitted when there is substantial course overlap between the first and second degrees.

Students who plan to earn two degrees concurrently in separate colleges must choose a primary college (the college of record), enroll at the University through that college, and then follow one of the relevant procedures below.

1. For the Kinesiology program, students should obtain written acceptance into the program by submitting the Double Degrees request form to the Department of Kinesiology and Nutrition office in Room 337 PEB. This form can be found online at the following link (<http://www.ahs.uic.edu/students/kn/>).
2. For the Health Information Management or Nutrition programs, students should apply to and be admitted to the program following the same procedures as all other applicants. Acceptance will be for the fall term only.

AHS students who want to complete a second degree in another college should consult that college to determine the options available and applicable rules. AHS students who want to complete a second degree in AHS should follow one of the procedures listed above.

Students who obtain double degrees receive a diploma for each degree. No more than two bachelor's degrees may be awarded concurrently.

Second Bachelor's Degree

Students who have already earned a bachelor's degree at UIC or another institution are required to follow the same application procedures as all other applicants in order to pursue a second bachelor's degree. Students must complete all requirements for the second degree as specified by the college and the major department, including a minimum of 30 semester hours beyond those required for the first degree. The UIC enrollment residence requirement must also be met, i.e., the last 30 semester hours for the second degree must be taken at UIC. A second bachelor's degree is not permitted when there is substantial course overlap between the first and second degrees.

Graduate-Level Courses for Undergraduate Credit

With department approval, an undergraduate student may enroll in a graduate-level course (500-level) for undergraduate credit. Students should obtain approval from their department and the instructor prior to enrollment. Graduate-level courses taken by an undergraduate student are generally not applicable toward a graduate degree.

Independent Study

Undergraduates are encouraged to participate in research programs. Students must consult with the faculty member offering the independent study prior to registering for the section. A student can register for a range of hours depending on the Independent Study. Students in the Kinesiology programs who would like to participate in the Senior

Research Seminar and Project must achieve a grade point average of 3.25/4.00 by their senior year of study. Students are required to register for two semesters of research seminar to participate.

Petition Procedure

Students may file a written petition with their individual department to request an exception to college policies. The department will make a recommendation to the college for granting or denying the request. Petitions are generally only approved for exceptional cases. The general petition form is available on the AHS Web site <http://www.ahs.uic.edu>.

Proficiency Examinations

The Kinesiology program offers proficiency examinations for some of its courses. The Health Information Management Program (HIM) offers proficiency examinations for some of its professional courses. Students interested in proficiency examinations should contact the respective department.

Progression to Clinical Fieldwork

Students must complete required course work prior to assignment to clinical/fieldwork experience. They must show readiness for the experience by having achieved performance levels that are related to the clinical fieldwork and are consistent with safety and technical standards defined in specific program objectives.

Prompt and regular attendance is required for all clinical fieldwork experiences. All time lost must be made up. The affiliation clinical supervisor and the faculty member must be notified when a student cannot attend.

The broad range of learning experiences required to prepare for careers in the applied health sciences involves some work in various community settings and healthcare facilities. Some of the assignments for these learning experiences are in the Chicago metropolitan area; others are outside the Chicago area. Students should plan for additional living expenses and transportation for assignments outside the Chicago area. Every effort is made to make the assignments equitable, to meet individual student requests, and to provide appropriate instructions for safe conduct. With the limited resources available and the number of students to be accommodated among all the professions represented, it is not always possible to offer alternate choices.

Registration Approval

Students in their first year of enrollment at UIC or those on probation must meet with an academic advisor prior to registering for the next term. Students in professional programs must complete their courses in the sequence prescribed by their academic department. Failure to complete the appropriate course work in a given term could result in dismissal from the program.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. The College of Applied Health Sciences requires students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. Normally, courses with a C grade may not be repeated. Courses with D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the

transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college dean. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course **is not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Student Health

Students enrolled in the College of Applied Health Sciences participate in a rigorous course of academic and clinical instruction. The students' successful participation in the instructional programs requires maintenance of a level of physical and mental well-being sufficient to achieve course objectives. Should the faculty of a given program find that a student's mental or physical well-being is a contributing factor to substandard achievement, they are obligated to counsel the student to seek help from the Health Service, Counseling Services, or private services. The faculty shall refer the case to the dean if the student resists such counseling. The dean shall determine the course of further action. Recommendations resulting from the Health Service or Counseling Services evaluation of the student's health and well-being may be considered in overall assessment of a student's capacity to participate in the instructional program. The student may accept the faculty's assessment, or appeal to the dean, who will determine the course of further action.

Transferring

Intercollege Transfer Students

UIC students from other colleges may apply to College of Applied Health Sciences programs. Students who would like to transfer to either of the Kinesiology programs should go to the program advising office in 337 PEB to request an Intercollege Transfer form. Intercollege transfer requests received prior to the eighth week of the term generally take effect the term following the request. Once a student has

registered for a term, however, a change of curriculum will not be processed until the next subsequent term. Final approval of intercollege transfers is contingent upon good academic standing and minimum GPA requirements.

All other AHS programs require a program-specific application form and admission is competitive and offered only in the fall term. These forms are available in the Office of Admissions and from the individual departments. Intercollege transfer students should consult the college and academic department sections of the catalog for admission requirements.

Transfer Students from Other Colleges and Universities

Interested transfer students should consult the admissions, college, and department sections of the catalog for admission requirements.

Selection of All Applicants

All applicants who meet the admission requirements and have completed applicant files are considered for admission. Application files are used to determine the position of each applicant in a selection system based on both academic and nonacademic criteria.

The Admissions Committee may waive specific course prerequisites for applicants who can demonstrate that they already possess appropriate knowledge or skills that would be gained through taking the required courses. The Admissions Committee reserves the right to waive other specific nonessential requirements when indicated by unusual circumstances.

Transferring Out of the College

Students who would like to transfer out of the College of Applied Health Sciences should schedule an exit interview with their academic advisor. Students should then meet with an academic advisor in their new college to request a change of curriculum.

Preprofessional Studies

Preprofessional studies in the College of Applied Health Sciences are designed for students who intend to pursue their undergraduate or graduate education in professional programs of the AHS College. Preprofessional students in AHS typically are Kinesiology majors. Advisors for students in pre-occupational therapy and pre-physical therapy are available in the AHS College Office of Student Affairs and the department offices. Students are also encouraged to participate in the preadmission information sessions which are held monthly within the OT and PT departments. Scheduling information for these sessions can be found on the AHS Web site <http://www.ahs.uic.edu>.

Completion of the required course work or attainment of the minimum grade point average does not guarantee admission to a professional program. Pre-OT and pre-PT students must complete all the requirements for a bachelor's degree, including a major, in addition to the preprofessional studies.

Pre-Occupational Therapy

Occupational therapists provide services to maximize the function and satisfaction of persons whose daily life performance has been interrupted and jeopardized by disease, disability, life stress, and other factors. The occupational therapist provides the individual with opportunities for involvement in carefully chosen work, play, or self-care activities. The occupational therapist also uses various methods of mutual problem solving, environmental modification, adaptive devices, technology, and biomechanical and sensorimotor treatment methods to support and enhance performance.

Many occupational therapists work within hospital settings, but there is growing emphasis on prevention and treatment of the disabled in nonclinical settings. As a result, many new areas of employment are now available. For example, occupational therapists are increasingly employed in school systems where they work with handicapped children, enhancing their ability to perform as students. Working with in-home health organizations, occupational therapists help individuals and families function more adequately at daily tasks. In industrial settings, they aid disabled or injured workers' return to gainful employment. In addition, occupational therapists have developed private practices.

The preprofessional course work listed below prepares students to apply to the professional program in the Department of Occupational Therapy in the College of Applied Health Sciences after completion of the undergraduate degree. Students should contact OTDept@uic.edu or (312) 413-0124 for further information.

Pre-occupational therapy students may choose any major but should work with an advisor to plan a course of study that fulfills pre-occupational therapy studies requirements as well as the requirements for the major.

The pre-occupational therapy requirements follow and should be completed as part of the undergraduate degree program. The courses listed below must be completed with a grade of C or better.

| Courses^a | Hours |
|--|--------------|
| BIOS 100—Biology of Cells and Organisms ^b | 5 |
| KN 251—Human Physiological Anatomy I ^{cd} | 5 |
| KN 252—Human Physiological Anatomy II ^{cd} | 5 |
| PSCH 100—Introduction to Psychology ^e | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| PSCH 270—Abnormal Psychology ^{de} | 3 |
| PSCH 320—Developmental Psychology ^d | 3 |
| PSCH 343—Statistical Methods in Behavioral Science | 4 |
| One course in anthropology or sociology | 3 |

Although not required, it is recommended that students complete a medical terminology course. Alternatively, students are expected to complete a self-study computerized course in medical terminology upon acceptance.

Total Hours—Pre-Occupational Therapy 35

^a Students completing an undergraduate degree at UIC must complete the General Education requirements. Students should consult the General Education section and their college/department sections of the catalog for more information on fulfilling these requirements.

^b This course is approved for the Analyzing the Natural World General Education category.

^c KN 251/252 sequence begins in the fall semester only.

^d These courses must be taken within five years of admission to the program.

^e This course is approved for the Understanding the Individual and Society General Education category.

Other minimum admissions requirements include an earned bachelor's degree in any field, CPR (cardiopulmonary resuscitation) certification with Health Providers Status, 3.00/4.00 GPA for the last 60 semester hours earned for the baccalaureate degree, Graduate Record Examination (GRE) score of at least 1000 combined verbal and quantitative parts, three letters of recommendation, and a personal statement. Applicants with a GPA of below 3.00 or GRE score below 1000 who display strengths in other areas may be considered for admission. Students must apply for admission to the program approximately one year before planned enrollment.

Pre-Physical Therapy

Physical therapy is a health profession whose primary purpose is the promotion of optimal human health and function through the application of scientific principles to prevent, identify, assess, correct, or alleviate acute or prolonged movement dysfunction. Physical therapy encompasses areas of specialized competence and includes the development of new principles and applications to more effectively meet existing and emerging health needs. Other professional activities that serve the purpose of physical therapy are research, education, consultation, and administration.

The physical therapist, working in cooperation with other health professionals, serves the individual needs of the client and the health needs of society. The physical therapy profession depends heavily on knowledge and application of the basic medical and behavioral sciences, coupled with specialized knowledge and skills in the clinical arts and sciences.

Physical therapists may work as staff, supervisors, or self-employed practitioners who serve clients directly; as administrators of clinical departments, health agencies, or educational programs; as healthcare agency consultants; as clinical or academic teachers; or as researchers.

They may work in hospitals, clinics, rehabilitation centers, schools for handicapped children, neighborhood health centers, physicians' offices, nursing homes and convalescent centers, private and public health agencies, sports settings, and universities.

Pre-physical therapy students may choose any major but should work with an advisor to plan a course of study that fulfills the pre-physical therapy studies requirements as well as the requirements for the major. Students are advised to declare an educational goal of pre-physical therapy upon entering UIC which will alert them to specific workshops and other pertinent information.

The pre-physical therapy requirements follow and should be completed as part of the undergraduate degree program.

| Courses ^a | Hours |
|---|-----------|
| BIOS 100—Biology of Cells and Organisms ^b | 5 |
| One of the following general chemistry sequences: | 10 |
| CHEM 112—General College Chemistry I (5) ^b | |
| CHEM 114—General College Chemistry II (5) ^b | |
| OR | |
| CHEM 116—Honors General Chemistry I (5) ^b | |
| CHEM 118—Honors General Chemistry II (5) ^b | |
| MATH 180—Calculus I | 5 |
| PHYS 105—Introductory Physics I—Lecture ^{bc} | 4 |
| PHYS 106—Introductory Physics I—Laboratory ^{bc} | 1 |
| PHYS 107—Introductory Physics II—Lecture ^{bc} | 4 |
| PHYS 108—Introductory Physics II—Laboratory ^{bc} | 1 |
| PSCH 100—Introduction to Psychology ^d | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| One course in developmental or abnormal psychology, choose from the following: | 3 |
| PSCH 270—Abnormal Psychology (3) ^d | |
| PSCH 320—Developmental Psychology (3) | |
| KN 251—Human Physiological Anatomy I ^e | 5 |
| KN 252—Human Physiological Anatomy II ^e | 5 |
| Total Hours—Pre-Physical Therapy | 50 |

^a Students completing an undergraduate degree at UIC must complete the General Education requirements. Students should consult the General Education section and their college/department sections of the catalog for more information on fulfilling these requirements.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Each of the following pairs of courses will be considered one course in meeting the LAS General Education requirements: PHYS 105/106; PHYS 107/108.

^d This course is approved for the Understanding the Individual and Society General Education category.

^e KN 251/252 sequence begins in the fall semester only.

In addition, applicants must complete a minimum of 45 hours of documented volunteer or observation experiences in three different physical therapy facilities; at least 15 hours must be completed at each facility. Current certification in CPR (cardiopulmonary resuscitation) with Health Provider Status is recommended prior to beginning the professional program. Students must also have earned a bachelor's degree prior to enrolling in the program.

The minimum GPA for application to the program in physical therapy is 2.50/4.00 in science and nonscience courses. The competitive GPA, however, is considerably above this level. The Graduate Record Examination (GRE) must be taken within five years of the date of application. Students must apply for admission to the program approximately one year before planned enrollment.

There are two parts to the application: the online application and a supplemental set of materials. Applicants to the DPT program must apply online using the Physical Therapist Centralized Application Service (PTCAS). Applicants can begin their PTCAS application in August. The PT program application deadline is October 15th. The supplemental materials must be sent directly to the Department of Physical Therapy and postmarked by the October 15 deadline. To learn more about the PTCAS application process, please visit the PTCAS web site at <http://www.ptcas.org>.

Minors

The College of Applied Health Sciences offers a minor in Kinesiology and a minor in Nutrition. Both minors are open to majors from other departments and colleges. Refer to the list of eligibility requirements in the Department of Kinesiology and Nutrition section of the catalog.

| Minor | Department | Hours |
|-------------|---------------------------|--------------------|
| Kinesiology | Kinesiology and Nutrition | 19–20 ^a |
| Nutrition | Kinesiology and Nutrition | 18 ^a |

^a One-half of the hours required for the minor must be completed in enrollment residence at UIC.

Academic Advising

Academic advising is provided at the department level. Students should contact their unit's program coordinator or academic advisor for more information on advising.

Advising Policy

All Applied Health Sciences students are required to meet with their academic advisor once each term, or as specified in their program handbook. Students on academic probation are required to meet with their academic advisor prior to registering for the next term. Students interested in applying to professional programs in the College of Applied Health Sciences are encouraged to schedule an advising appointment at least one year prior to their expected admission date. Monthly advising sessions are offered for most professional programs in the college. Some programs assign a faculty advisor during the year of matriculation. Students should contact their individual departments or the Office of Student Affairs for further details.

Academic Honors

College Honors

The college recognizes and conforms with the campuswide honors program. University Honors are awarded to graduating students whose cumulative grade point average falls within the following honors categories:

Summa cum laude: 3.90 and above

Magna cum laude: 3.75 to 3.89

Cum laude: 3.50 to 3.74

Transfer students must have earned a minimum of 42 hours at the University of Illinois at Chicago at the end of the term prior to the term of graduation and have a minimum of 60 hours completed at UIC upon graduation.

In addition, transfer students must have an institutional (UIC) grade point average of 3.50 in order to qualify for University Honors.

Dean's List

Each semester the Dean's List honors the academic excellence of students enrolled in the college's undergraduate programs. Students must be full time and earn at least 12 semester hours in his or her respective department to be eligible. Students must also earn a semester grade point average of 3.50/4.00 or higher.

Student Organizations

Applied Health Sciences students have a variety of student organizations available to them, ranging from student government to professional societies and organizations to groups organized around a specific focus. Involvement in student organizations is encouraged as experiences gained can enhance learning and contribute to development of valuable leadership skills. All students, upon admission, become members of the Urban Allied Health Academy. Students can also serve on various college committees.

Abbreviated Listing:

Urban Allied Health Academy
AHS Student Council
Disabled Students Union
Disability History and Culture Club
Health Professions Student Council
Kinesiology Club
Occupational, Physical Therapy and Nutrition Students Organization (OPTNS)
Pre-Physical Therapy Club
Student Nutrition Association

DEPARTMENT OF BIOMEDICAL AND HEALTH INFORMATION SCIENCES

250 Applied Health Sciences Building (AHSB)
(312) 996-3530

bhis@uic.edu

<http://www.bhis.uic.edu>

Administration: Interim Department Head, June Wencel-Drake

Program Director, Health Information Management,
Karen Patena

Office of Student Affairs College of Applied Health
Sciences: Renee Pleshar

Academic Advisor: Contact the Program Director, Karen Patena

The mission of Biomedical and Health Information Sciences is to advance the quality and efficiency of healthcare through improved information management, communication, and the generation of new forms of biomedical

and other healthcare data. The goals of the department are leadership, innovation, initiative, and quality with strong focus on the unique arena of health informatics at the University of Illinois at Chicago.

The department actively supports the central mission of the College of Applied Health Sciences by facilitating innovative educational and research programs, providing leadership within department disciplines to meet current industry challenges, and ensuring that graduates have a competitive edge in the increasingly demanding health informatics marketplace. The department strives to produce healthcare professionals who can effectively partner with and/or lead information technology professionals in the problem-solving activities of their organizations.

The Department of Biomedical and Health Information Sciences offers an undergraduate program leading to the Bachelor of Science in Health Information Management. The undergraduate brochure for Health Information Management is available online <http://www.bhis.uic.edu>.

Accreditation

The Bachelor of Science in Health Information Management program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

BS in Health Information Management

The Health Information Management undergraduate degree program provides skilled instruction in the management and use of information and information systems for healthcare planning, provision, resource allocation, and executive decision making. The undergraduate program, established in 1965, maintains a reputation of excellence and consistently produces graduates who become leaders in the field.

Within the world of health information management, registered health information administrators (RHIAs) are responsible for the management of health information systems consistent with the medical, administrative, ethical, and legal requirements of the healthcare delivery system. RHIAs often have opportunities to develop information systems for quality patient care, facility reimbursement, medical research, health planning, and healthcare evaluation. Administrative duties of the RHIA encompass responsibility for personnel, capital equipment selection, systems design and analysis, hospital committee activities, and budget management. RHIAs also provide health information to qualified users and safeguard confidential patient data. The job forecast for RHIAs is positive, not only in hospitals but also in other healthcare settings, such as home health agencies, hospice programs, nursing homes, and ambulatory care facilities. Employment opportunities also exist in education, research, consulting, sales, insurance companies, and with state and national healthcare organizations.

The Health Information Management program is available on a full- or part-time basis and begins with the fall semester. Although health information technician course credits do not count toward the required 60 semester or 90 quarter hours of prerequisites, registered health information technicians (RHITs) with passing scores on required validation examinations administered by department faculty are not required to enroll in certain courses.

Graduates receive a Bachelor of Science in Health Information Management degree and are eligible to register for the national RHIA credential examination offered by AHIMA.

Transfer Admission Requirements

Students seeking admission to the Bachelor of Science in Health Information Management program must meet these minimum requirements:

- Junior standing with 60 semester or 90 quarter credit hours at an accredited college/university.
- Successful completion of Pre-Health Information Management courses offered by the College of Liberal Arts and Sciences or the equivalent.
- Cumulative grade point average of 2.00/4.00 for all completed undergraduate courses.
- International students must have a Test of English as a Foreign Language (TOEFL) score of 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 on the Internet-based test (iBT).
- Demonstrated reading and writing proficiency; ability to convey maturity; desire to work with people; and ability to direct work of others.
- Completion of application process, including a personal interview with department faculty and submission of three references.
- Thorough understanding of the professional health information manager's role and responsibilities.

Degree Requirements

To earn a Bachelor of Science in Health Information Management degree from UIC, students need to complete University, college, and department degree requirements. The Department of Biomedical and Health Information Sciences degree requirements are outlined below. Students should consult the *College of Applied Health Sciences* section for additional degree requirements and college academic policies.

| BS in Health Information Management Degree Requirements | |
|---|------------|
| Courses | Hours |
| Pre-Health Information Management Required Courses | 60 |
| Health Information Management Required Courses | 62 |
| Total Hours—BS in Health Information Management | 122 |

Pre-Health Information Management Course Requirements

| Courses | Hours |
|---|----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| BIOS 100—Biology of Cells and Organisms ^a | 5 |
| Additional Analyzing the Natural World course ^b | 3–5 |
| KN 251—Human Physiological Anatomy I ^c | 5 |
| KN 252—Human Physiological Anatomy II ^c | 5 |
| Choose one of the following courses: | 5 |
| MATH 118—Mathematical Reasoning (5) | |
| MATH 121—Precalculus Mathematics (5) | |
| PSCH 100—Introduction to Psychology ^d | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| Exploring World Cultures course ^b | 3 |
| Understanding the Creative Arts course ^b | 3 |
| Understanding the Past course ^b | 3 |
| Understanding U.S. Society course ^b | 3 |
| IDS 200—Introduction to Management Information Systems | 4 |

Electives—To complete the required total of 60 hours of Pre-Health Information Management courses.

6–8

Total Hours—Pre-Health Information Management Requirements

60

^a This course is approved for the Analyzing the Natural World General Education category.

^b Students should consult the General Education section of the catalog for a list approved courses in this category.

^c KN 251/252 sequence begins in the fall term only.

^d This course is approved for the Understanding the Individual and Society General Education category.

Health Information Management Required Courses

| Courses | Hours |
|---|-----------|
| HIM 410—Introduction to the Healthcare System | 3 |
| HIM 317—Principles of Health Information Management | 4 |
| HIM 319—Alternative Health Records | 4 |
| HIM 320—Technical Affiliation | 2 |
| HIM 329—Legal Aspects of Health Information Management | 3 |
| HIM 432—Coding and Classification Systems | 3 |
| HIM 433—Coding and Reimbursement Systems | 4 |
| HIM 337—Analysis of Healthcare Data | 4 |
| HIM 343—Quality Evaluation and Management | 3 |
| HIM 361—Human Resources Management | 4 |
| HIM 367—Systems Analysis | 3 |
| HIM 374—Health Information Research | 3 |
| HIM 377—Current Issues in Health Information Management | 2 |
| HIM 481—Financial Management | 2 |
| HIM 384—Clinical Practicum | 5 |
| BHIS 405—Medical Sciences and Human Pathophysiology | 4 |
| BHIS 410—Health Data Structures and Management | 3 |
| BHIS 460—Introduction to Health Informatics | 1 |
| BHIS 461—Information Systems for Health Information Management | 2 |
| BHIS 480—Management and Business Practices | 3 |
| Total Hours—Health Information Management Required Courses | 62 |

Sample Course Schedule

Junior Year

| Fall Semester | Hours |
|--|-----------|
| HIM 410—Introduction to the Healthcare System | 3 |
| HIM 317—Principles of Health Information Management | 4 |
| BHIS 405—Medical Sciences and Human Pathophysiology | 4 |
| BHIS 460—Introduction to Health Informatics | 1 |
| BHIS 461—Information Systems for Health Information Management | 2 |
| BHIS 480—Management and Business Practices | 3 |
| Total Hours | 17 |

Spring Semester

| Spring Semester | Hours |
|--|-----------|
| HIM 319—Alternative Health Records | 4 |
| HIM 320—Technical Affiliation | 2 |
| HIM 329—Legal Aspects of Health Information Management | 3 |
| HIM 432—Coding and Classification Systems | 3 |
| HIM 337—Analysis of Healthcare Data | 4 |
| Total Hours | 16 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| HIM 433—Coding and Reimbursement Systems | 4 |
| HIM 343—Quality Evaluation and Management | 3 |
| HIM 361—Human Resources Management | 4 |
| HIM 381—Financial Management | 2 |
| BHIS 410—Health Data Structures and Management | 3 |
| Total Hours | 16 |
| Spring Semester | Hours |
| HIM 367—Systems Analysis | 3 |
| HIM 374—Health Information Research | 3 |
| HIM 377—Current Issues in Health Information Management | 2 |
| HIM 384—Clinical Practicum | 5 |
| Total Hours | 13 |

DEPARTMENT OF KINESIOLOGY AND NUTRITION

650 Applied Health Sciences Building (AHSB)

Administration: Main Office, (312) 996-8055

kndept@uic.edu

<http://www.ahs.uic.edu/kn>

Interim Head, Charles Walter, PhD

East Campus Student Office, (312) 996-4600

337 Physical Education Building (PEB)

Director of Undergraduate Studies, Mary Lou Bareither, PhD

Director of Accredited Nutrition Programs, Jamie Sutton
Shifley, MS, RD, LDN

Academic Advisor, Emily Walker

The Department of Kinesiology and Nutrition offers four major concentrations that lead to the Bachelor of Science degree in either Kinesiology or Nutrition.

Bachelor of Science in Kinesiology:

- Movement Science
- Exercise and Fitness

Bachelor of Science in Nutrition:

- Coordinated Program
- Nutrition Science

BS in Kinesiology

The Bachelor of Science program offers two areas of concentration: Movement Science, and Exercise and Fitness. The focus of the concentration in Movement Science is to prepare students for graduate and professional programs in the health sciences, including medicine, movement sciences, nursing, pharmacy, physical therapy, and occupational therapy, among others. The concentration in Exercise and Fitness prepares students for careers in clinical, corporate, and community health and fitness settings. It provides the fundamental background required to develop exercise and fitness programs for persons of all ages both healthy and disabled. This concentration assists students in becoming certified as health/fitness professionals.

Transfer Admission Requirements

Students seeking admission to the department as a transfer student must have earned a minimum of 36 semester hours (54 quarter hours) or more at another college or university and must meet the entrance requirements that are specified for transfer students. The minimum transfer grade point average for admission is 2.50/4.00. No more than 60 semester hours (90 quarter hours) of credit may be accepted as transfer work from a two-year college or

university. Complete transcripts from all postsecondary institutions must be submitted in order to be considered for admission. International students must have a Test of English as a Foreign Language (TOEFL) score of 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 on the Internet-based TOEFL (iBT).

Degree Requirements—Both Concentrations

To earn a Bachelor of Science in Kinesiology degree from UIC, students need to complete University, college, and department degree requirements. The Department of Kinesiology and Nutrition degree requirements are outlined below. Students should consult the *College of Applied Health Sciences* section for additional degree requirements and college academic policies.

University Writing Requirement

| Courses | Hours |
|---|----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Total Hours—University Writing Requirement | 6 |

Kinesiology Common Core

| Courses | Hours |
|--|-----------|
| KN 100—Kinesiology and Nutrition: First-Year Seminar | 2 |
| KN 251—Human Physiological Anatomy I | 5 |
| KN 252—Human Physiological Anatomy II | 5 |
| KN 261—Applied Musculoskeletal Anatomy | 3 |
| KN 335—Exercise Psychology | 3 |
| KN 352—Physiology of Exercise | 4 |
| KN 361—Biomechanics: Introduction to the Human Machine | 3 |
| KN 372—Motor Control and Learning | 3 |
| HN 196—Nutrition | 3 |
| Total Hours—Kinesiology Common Core | 31 |

Degree Requirements—Concentration in Movement Science

| BS in Kinesiology, Concentration in Movement Science Degree Requirements | Hours |
|---|------------|
| University Writing Requirement | 6 |
| Kinesiology Common Core | 31 |
| General Education Core Requirements | 21 |
| Concentration Required Courses | 44 |
| Electives | 18 |
| Total Hours—BS in Kinesiology, Concentration in Movement Science | 120 |

University Writing Requirement and Kinesiology Common Core

See previous section *Degree Requirements—Both Concentrations*.

General Education Core Requirements

| Courses | Hours |
|--|-----------|
| BIOS 100—Biology of Cells and Organisms ^a | 5 |
| PSCH 100—Introduction to Psychology ^b | 4 |
| Exploring World Cultures course ^c | 3 |
| Understanding the Creative Arts course ^c | 3 |
| Understanding the Past course ^c | 3 |
| Understanding U.S. Society course ^c | 3 |
| Total Hours—General Education Core Requirements^d | 21 |

^a This course is approved for the *Analyzing the Natural World General Education* category.

^b This course is approved for the Understanding the Individual and Society General Education category.

^c Students should consult the General Education section of the catalog for a list of approved courses in this category.

^d Some of the Concentration Required Courses count toward the University minimum of 24 semester hours in General Education Core courses. Please see the course list that follows.

Concentration in Movement Science—Required Courses

| Courses | Hours |
|---|-----------|
| BIOS 101—Biology of Populations and Communities ^a | 5 |
| BIOS 220—Mendelian Genetics | 3 |
| CHEM 112—General College Chemistry I ^a | 5 |
| CHEM 114—General College Chemistry II ^a | 5 |
| CHEM 232—Organic Chemistry I | 4 |
| MATH 180—Calculus I ^a | 5 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| Choose one of the following two-course sequences: | 5 |
| PHYS 105—Introductory Physics I—Lecture (4) ^a | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^a | |
| OR | |
| PHYS 141—General Physics I (4) ^a | |
| PHYS 144—Problem-Solving Workshop for General Physics I (1) | |
| KN 452—Advanced Exercise Physiology | 3 |
| KN 465—Biomechanics of the Neuromusculoskeletal Systems | 3 |
| KN 472—Movement Neuroscience | 3 |
| Total Hours—Concentration in Movement Science Required Courses | 44 |

^a This course is approved for the Analyzing the Natural World General Education category.

Concentration in Movement Science—Electives

| Courses | Hours |
|--|-----------|
| Electives ^a —Upper-level Kinesiology courses (300- or 400-level courses). | 9 |
| Free Electives | 9 |
| Total Hours—Concentration in Movement Science—Electives | 18 |

^a Students with a cumulative GPA of 3.25/4.00 or greater are encouraged to complete the following courses in their senior year as part of the elective course work:

- KN 398—Senior Research Seminar (3 Hours)
- KN 399—Senior Research Project (3 Hours)

Sample Course Schedule—Concentration in Movement Science

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| BIOS 100—Biology of Cells and Organisms | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| KN 100—Kinesiology and Nutrition: First-Year Seminar | 2 |
| PSCH 100—Introduction to Psychology | 4 |
| Total Hours | 14 |
| Spring Semester | Hours |
| BIOS 101—Biology of Populations and Communities | 5 |
| ENGL 161—Academic Writing I: Writing for Inquiry and Research | 3 |
| General Elective | 3 |
| HN 196—Nutrition | 3 |
| Total Hours | 14 |

Sophomore Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| CHEM 112—General College Chemistry I | 5 |
| KN 251—Human Physiological Anatomy I | 5 |
| MATH 180—Calculus I | 5 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| CHEM 114—General College Chemistry II | 5 |
| KN 252—Human Physiological Anatomy II | 5 |
| KN 261—Applied Musculoskeletal Anatomy | 3 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| Total Hours | 16 |

Junior Year

| Fall Semester | Hours |
|---|-----------|
| KN 335—Exercise Psychology | 3 |
| KN 352—Physiology of Exercise | 4 |
| PHYS 105—Introductory Physics I | |
| PHYS 106—Intro Physics Lab I | |
| OR | |
| PHYS 141—General Physics I | |
| PHYS 144—Problem-Solving Workshop for General Physics I | 5 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| CHEM 232—Organic Chemistry I | 4 |
| KN 361—Biomechanics: Introduction to the Human Machine | 3 |
| KN 372—Motor Control and Learning | 3 |
| General Education Core course | 3 |
| General Elective | 3 |
| Total Hours | 16 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| BIOS 220—Mendelian Genetics | 3 |
| KN 465—Biomechanics of the Neuromusculoskeletal Systems | 3 |
| KN Elective 300- or 400-level course | 3 |
| KN Elective 300- or 400-level course | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--------------------------------------|-----------|
| KN 452—Advanced Exercise Physiology | 3 |
| KN 472—Movement Neuroscience | 3 |
| KN Elective 300- or 400-level course | 3 |
| General Education Core course | 3 |
| General Elective | 3 |
| Total Hours | 15 |

Degree Requirements—Concentration in Exercise and Fitness

| BS in Kinesiology, Concentration in Exercise and Fitness Degree Requirements | Hours |
|--|------------|
| University Writing Requirement | 6 |
| Kinesiology Common Core | 31 |
| General Education Core Requirements | 24–26 |
| Concentration Required Courses | 47 |
| Electives | 10–12 |
| Total Hours—BS in Kinesiology, Concentration in Exercise and Fitness | 120 |

University Writing Requirement and Kinesiology Common Core

See previous section *Degree Requirements—Both Concentrations*.

General Education Core Requirements

| Courses | Hours |
|---|--------------|
| BIOS 100—Biology of Cells and Organisms ^a | 5 |
| PSCH 100—Introduction to Psychology ^b | 4 |
| Exploring World Cultures course ^c | 3 |
| Understanding the Creative Arts course ^c | 3 |
| Understanding the Past course ^c | 3 |
| Understanding U.S. Society course ^c | 3 |
| One additional Analyzing the Natural World course ^{cd} | 3–5 |
| Total Hours—General Education Core Requirements | 24–26 |

^a This course is approved for the *Analyzing the Natural World General Education* category.

^b This course is approved for the *Understanding the Individual and Society General Education* category.

^c Students should consult the *General Education* section of the catalog for a list of approved courses in this category.

^d A laboratory course is recommended.

Concentration in Exercise and Fitness—Required Courses

| Courses | Hours |
|---|-----------|
| MATH 121—Precalculus Mathematics | 5 |
| KN 200—Statistical Methods in Kinesiology and Nutrition | 3 |
| KN 240—Instructional Techniques in Fitness | 3 |
| KN 243—Basic Fitness Assessment | 3 |
| KN 331—Sport and Exercise Injury Management | 3 |
| KN 343—Advanced Fitness Assessment | 3 |
| KN 345—Exercise Programming | 3 |
| KN 348—Modifications in Exercise Programming | 3 |
| KN 400—Business Principles for the Fitness Professional | 3 |
| KN 410—Aging and the Neuromusculoskeletal Systems | 3 |
| KN 441—Principles of Resistance Training | 3 |
| KN 442—Principles of ECG Interpretation | 3 |
| KN 460—Neuromechanical Basis of Human Movement | 3 |
| Choose one of the following: | 6 |
| KN 393—Undergraduate Internship in Kinesiology | |
| OR | |
| Upper-level Kinesiology Electives | |
| Total Hours—Concentration in Exercise and Fitness Required Courses | 47 |

Concentration in Exercise and Fitness—Electives

| Courses | Hours |
|--|--------------|
| Electives ^a | 10–12 |
| Total Hours—Concentration in Exercise and Fitness Electives | 10–12 |

^a Students with a cumulative GPA of 3.25/4.00 or greater are encouraged to complete the following courses in their senior year as part of the elective course work:

- KN 398—Senior Research Seminar (3 Hours)
- KN 399—Senior Research Project (3 Hours)

Sample Course Schedule—Concentration in Exercise and Fitness

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| BIOS 100—Biology of Cells and Organisms | 5 |
| KN 100—Kinesiology and Nutrition: First-Year Seminar | 2 |
| General Elective | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|--------------|
| ENGL 161—Academic Writing II: Writing for Academic and Public Contexts | 3 |
| HN 196—Nutrition | 3 |
| Analyzing the Natural World Elective | 3–5 |
| MATH 121—Precalculus Mathematics | 5 |
| Total Hours | 14–16 |

Sophomore Year

| Fall Semester | Hours |
|---|-----------|
| PSCH 100—Introduction to Psychology | 4 |
| KN 200—Statistical Methods in Kinesiology and Nutrition | 3 |
| KN 243—Basic Fitness Assessment | 3 |
| KN 251—Human Physiological Anatomy I | 5 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| KN 240—Instructional Techniques in Fitness | 3 |
| KN 252—Human Physiological Anatomy II | 5 |
| KN 261—Applied Musculoskeletal Anatomy | 3 |
| KN 335—Exercise Psychology | 3 |
| Total Hours | 14 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| KN 331—Sport and Exercise Injury Management | 3 |
| KN 352—Physiology of Exercise | 4 |
| KN 372—Motor Control and Learning | 3 |
| KN 460—Neuromechanical Basis of Human Movement | 3 |
| General Elective | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|-----------|
| KN 345—Exercise Programming | 3 |
| KN 361—Biomechanics: Introduction to the Human Machine | 3 |
| KN 441—Principles of Resistance Training | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| KN 343—Advanced Fitness Assessment | 3 |
| KN 348—Modifications in Exercise Programming | 3 |
| KN 400—Business Principles for the Fitness Professional | 3 |
| KN 442—Principles of ECG Interpretation | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| KN 410—Aging and the Neuromusculoskeletal Systems | 3 |
| KN 393—Undergraduate Internship in Kinesiology | |
| OR | |
| KN Electives 300- or 400-level courses | 6 |
| General Elective | 3 |
| General Elective | 3 |
| Total Hours | 15 |

Minor in Kinesiology

The Minor in Kinesiology is open to Nutrition majors and to majors from other units and colleges. Students will be allowed to complete the minor area of study within Kinesiology if they meet the minimum GPA of 2.50/4.00 at the time of application. Students must submit a request form in room 337 PEB and obtain approval. Students outside the College of Applied Health Sciences must also consult their home colleges about acceptability and applicability of Kinesiology course credit toward their degree. Registration for all KN courses is restricted to students in the College of Applied Health Sciences; therefore, students outside the College of Applied Health Sciences seeking a minor will need to register for the courses needed through the academic advisor in the Department of Kinesiology and Nutrition. A minimum GPA of 2.00/4.00 is required for the minor field.

| Prerequisites for the Minor | Hours |
|--|----------|
| BIOS 100—Biology of Cells and Organisms | 5 |
| Total Hours—Prerequisites for the Minor | 5 |

| Required Courses for Minor in Kinesiology | Hours |
|--|-------|
| KN 251—Human Physiological Anatomy I ^a | 5 |
| KN 252—Human Physiological Anatomy II ^a | 5 |
| KN 261—Applied Musculoskeletal Anatomy | 3 |

A minimum of two courses from the following selected with an advisor:

| | |
|---|-----|
| KN 243—Basic Fitness Assessment (3) | 6–7 |
| KN 331—Sport and Exercise Injury Management (3) | |
| KN 335—Exercise Psychology (3) | |
| KN 345—Exercise Programming (3) | |
| KN 348—Modifications in Exercise Programming (3) | |
| KN 352—Physiology of Exercise (4) | |
| KN 361—Biomechanics: Introduction to the Human Machine (3) | |
| KN 372—Motor Control and Learning (3) | |
| KN 410—Aging and the Neuromusculoskeletal System (3) | |
| KN 441—Muscle Physiology (3) | |
| KN 452—Advanced Exercise Physiology (3) | |
| KN 460—Neuromechanical Basis of Human Movement (3) | |
| KN 465—Biomechanics of the Neuromusculoskeletal Systems (3) | |
| KN 472—Movement Neuroscience (3) | |
| KN 475—Movement Disorders (3) | |

| | |
|---|--------------|
| Total Hours—Minor in Kinesiology | 19–20 |
|---|--------------|

^a These courses are required for the BS in Nutrition; Nutrition majors must take substitute courses selected with an advisor to meet the minimum number of Kinesiology course hours required for the minor.

Enrollment Residence Requirements for the Minor

A student must complete at least one-half of the course work required for the minor field in enrollment residence at the University of Illinois at Chicago.

BS in Nutrition

The Coordinated Program in Nutrition combines the Commission on Accreditation for Dietetics Education required didactic course work with the required supervised practice hours that prepare graduates to take the

Commission on Dietetic Registration examination to become registered dietitians. The Nutrition Science program provides students with the Commission on Accreditation for Dietetics Education required didactic course work. Upon completion of the Nutrition Science Program, students are eligible to apply for an accredited dietetic internship at another institution. After successfully completing a dietetic internship, students are eligible to sit for the Commission on Dietetic Registration examination to become registered dietitians. This program is also for students who do not wish to become registered dietitians, but instead plan to pursue advanced degrees in nutritional sciences, public health, allied health, or a professional degree in medicine.

Coordinated Program Concentration

Currently granted accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association (120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995; phone: (312) 899-0040, ext. 5400; <http://www.eatright.org>), the Coordinated Program requires students to complete six semesters of full-time study, which includes didactic classroom work in conjunction with supervised practice experiences provided at a variety of locations throughout the Chicagoland area.

The Coordinated Program prepares graduates for entry-level positions as dietitians in a variety of employment settings, such as healthcare institutions, government organizations, business, industry, and community health agencies. With experience or advanced education, career opportunities can be found in research, education, or private practice. The employment outlook for dietitians is projected to grow in the twenty-first century.

Dietitians provide nutritional care to people in health and disease throughout the life cycle in accordance with their nutritional requirements and food habits. Dietitians' activities include the provision of direct inpatient and outpatient services as well as community program planning and evaluation, clinical protocol development, food service management, and research. Therefore, a dietitian must be knowledgeable in the biological and physical sciences, psychology, sociology, education, and management and must have expertise in food habits, food composition, food service, science of food and nutrition, energy and nutrient needs, program development and evaluation, and research methods. Dietitians counsel clients, as well as work with other members of the healthcare team in providing nutritional care in the clinical setting, and work with consumers in wellness programs and community agencies. Management of personnel, budgets, food operations, and consumer-oriented services in the food or healthcare industry are other areas for dietitians.

Nutrition Science Concentration

The Nutrition Science concentration prepares students for a future career as a registered dietitian, as well as for graduate study in nutrition, medicine, public health, other allied health fields, and dentistry. It is currently granted initial accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association (120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995; phone: (312) 899-0040, ext. 5400; <http://www.eatright.org>) as a Didactic Program in Dietetics. The research and teaching is focused on the sciences of nutrition, physiology, biochemistry, and molecular biology and the application of knowledge in these disciplines to the maintenance of health and well-being of humans throughout their lives. The curriculum offers a wide range of courses on the nutritional, epidemiological, and behavioral aspects of human diseases, a broad perspective on human biology (including cultural factors), and a strong clinical

orientation. Students who intend to become dietitians may choose to apply for an accredited dietetic internship outside of UIC to be completed post graduation.

Transfer Admission Requirements

Students seeking admission to the Bachelor of Science in Nutrition programs must meet these minimum requirements:

- Sixty semester or 90 quarter hours of acceptable academic credit
- Minimum cumulative grade point average of 2.50/4.00 (However, currently the average GPA of students accepted into the Coordinated Program is 3.60/4.00, while the average GPA of students accepted into the Nutrition Science program is 3.40/4.00.)
- Successful completion of the required prerequisite courses

The applicant's personal characteristics, motivation, academic background, and work experiences are factors evaluated in selecting candidates for admission into the Coordinated Program through recommendations as well as written and face-to-face interviews.

Degree Requirements—Both Concentrations

To earn a Bachelor of Science in Nutrition degree from UIC, students need to complete University, college, and department degree requirements. The Department of Kinesiology and Nutrition offers two major concentrations in Nutrition:

- Coordinated Program
- Nutrition Science

The Department of Kinesiology and Nutrition degree requirements for both Nutrition concentrations are outlined below. Students should consult the *College of Applied Health Sciences* section for additional degree requirements and college academic policies.

Note: Students who do not place into certain courses or do not carefully plan sequential course work should expect to take summer session courses or possibly take longer than two years to complete the pre-nutrition course work. Students should seek advising from the Department of Kinesiology and Nutrition for advice on course planning.

Pre-Nutrition Course Requirements

| Courses | Hours |
|--|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Academic and Public Contexts | 3 |
| COMM 100—Fundamentals of Human Communication ^a | 3 |
| Understanding the Creative Arts course ^b | 3 |
| Understanding the Past course ^b | 3 |
| PSCH 100—Introduction to Psychology ^a | 4 |
| SOC 100—Introduction to Sociology ^{ac} | 3 |
| SOC 201—Introductory Sociological Statistics | 4 |
| CHEM 112—General College Chemistry I ^d | 5 |
| CHEM 114—General College Chemistry II ^d | 5 |
| CHEM 232—Organic Chemistry I ^{de} | 4 |
| CHEM/BIOS 352—Introductory Biochemistry | 3 |
| BIOS 100—Biology of Cells and Organisms ^d | 5 |
| BIOS 350—General Microbiology ^e | 3 |
| BIOS 351—Microbiology Laboratory ^e | 2 |
| MATH 121—Precalculus Mathematics ^f | 5 |

| | |
|--|-----------|
| HN 110—Foods | 3 |
| HN 196—Nutrition | 3 |
| Total Hours—Pre-Nutrition Course Requirements | 64 |

^a This course is approved for the Understanding the Individual and Society General Education category.

^b Students should consult the General Education section of the catalog for a list approved courses in this category.

^c This course is approved for the Understanding U.S. Society General Education category.

^d This course is approved for the Analyzing the Natural World General Education category.

^e Students are required to complete or be concurrently enrolled in CHEM 130 or CHEM 232 as a prerequisite for these courses. See CHEM 232 course description for more details.

^f Completion of MATH 121 may be satisfied through placement exam or CLEP.

Degree Requirements—Coordinated Program Concentration

| BS in Nutrition—Coordinated Program Degree Requirements | Hours |
|---|------------|
| Pre-Nutrition Course Requirements | 64 |
| Coordinated Program Required Courses | 76 |
| Total Hours—BS in Nutrition—Coordinated Program | 140 |

Pre-Nutrition Course Requirements

See previous section *Pre-Nutrition Course Requirements* for a list of courses to meet this requirement.

Coordinated Program Required Courses

| Courses | Hours |
|--|-----------|
| HN 200—Nutritional Assessment | 3 |
| HN 202—Culture and Food ^a | 2 |
| HN 300—Science of Foods | 3 |
| HN 306—Nutrition Education | 4 |
| HN 308—Nutrition Science I | 3 |
| HN 309—Nutrition Science II | 3 |
| HN 311—Nutrition during the Life Cycle | 3 |
| HN 312—Nutrition during the Life Cycle Practicum | 2 |
| HN 318—Genetic, Molecular, and Cellular Mechanisms of Chronic Diseases | 3 |
| HN 320—Clinical Nutrition I | 4 |
| HN 321—Clinical Practice I | 2 |
| HN 330—Quantity Food Production | 3 |
| HN 332—Food Service Management | 2 |
| HN 335—Food Service Practice | 4 |
| HN 340—Seminar | 1 |
| HN 341—The Research Process | 2 |
| HN 413—Principles of Delivering Public Health Nutrition Services | 3 |
| HN 420—Clinical Nutrition II | 2 |
| HN 421—Clinical Practice II | 4 |
| HN 422—Clinical Nutrition III | 2 |
| HN 423—Clinical Practice III | 5 |
| HN 450—Professional Practice | 6 |
| KN 251—Human Physiological Anatomy I | 5 |
| KN 252—Human Physiological Anatomy II | 5 |
| Total Hours—Coordinated Program Required Courses | 76 |

^a This course is approved for the Exploring World Cultures General Education category.

Sample Course Schedule—Coordinated Program

Junior Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| HN 190—Introduction to Dietetics | 1 |
| KN 251—Human Physiological Anatomy I | 5 |
| HN 200—Nutritional Assessment | 3 |
| HN 308—Nutrition Science I | 3 |
| Total Hours | 12 |

| Spring Semester | Hours |
|---|-----------|
| KN 252—Human Physiological Anatomy II | 5 |
| HN 309—Nutrition Science II | 3 |
| HN 330—Quantity Food Production | 3 |
| HN 413—Principles of Delivery of Public Health Nutrition | 3 |
| HN 318—Genetic, Molecular, and Cellular Mechanisms of Chronic Disease | 3 |
| Total Hours | 17 |

Senior Year

| Fall Semester | Hours |
|--|-----------|
| HN 300—Science of Food | 3 |
| HN 202—Culture and Food | 2 |
| HN 311—Nutrition during the Life Cycle | 3 |
| HN 320—Clinical Nutrition I | 4 |
| HN 332—Food Service Management | 2 |
| Total Hours | 14 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| HN 306—Nutrition Education | 4 |
| HN 335—Food Service Practice | 4 |
| HN 340—Seminar | 1 |
| HN 341—The Research Process | 2 |
| HN 420—Clinical Nutrition II | 2 |
| HN 422—Clinical Nutrition III | 2 |
| Total Hours | 15 |

| Summer Session: | Hours |
|---------------------------------------|----------|
| HN 321—Clinical Nutrition Practice I | 2 |
| HN 421—Clinical Nutrition Practice II | 4 |
| Total Hours | 6 |

| Fall Semester: | Hours |
|--|-----------|
| HN 312—Nutrition during the Life Cycle Practicum | 2 |
| HN 423—Clinical Nutrition Practice III | 5 |
| HN 450—Professional Practice | 6 |
| Total Hours | 13 |

Degree Requirements—Nutrition Science Concentration

| BS in Nutrition—Nutrition Science Degree Requirements | Hours |
|---|------------|
| Pre-Nutrition Course Requirements | 64 |
| Nutrition Science Required Courses | 56 |
| Total Hours—BS in Nutrition—Nutrition Science | 120 |

Pre-Nutrition Course Requirements

See previous section *Pre-Nutrition Course Requirements* for a list of courses to meet this requirement.

Nutrition Science Required Courses

| Courses | Hours |
|--|-----------|
| HN 200—Nutritional Assessment | 3 |
| HN 202—Culture and Food ^a | 2 |
| HN 300—Science of Foods | 3 |
| HN 308—Nutrition Science I | 3 |
| HN 309—Nutrition Science II | 3 |
| HN 311—Nutrition during the Life Cycle | 3 |
| HN 318—Genetic, Molecular, and Cellular Mechanisms of Chronic Diseases | 3 |
| HN 320—Clinical Nutrition I | 4 |
| HN 340—Seminar | 1 |
| HN 341—The Research Process | 2 |
| HN 413—Principles of Delivering Public Health Nutrition Services | 3 |
| HN 420—Clinical Nutrition II | 2 |
| KN 251—Human Physiological Anatomy I | 5 |
| KN 252—Human Physiological Anatomy II | 5 |
| Electives ^b | 14 |
| Total Hours—Nutrition Science Required Courses | 56 |

^a This course is approved for the Exploring World Cultures General Education category

^b Elective courses will depend upon students' postgraduation goals.

Sample Course Schedule—Nutrition Science

Junior Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| KN 251—Human Physiological Anatomy I | 5 |
| HN 200—Nutritional Assessment | 3 |
| HN 308—Nutrition Science I | 3 |
| Electives | 3 |
| Total Hours | 14 |

| Spring Semester | Hours |
|---|-----------|
| KN 252—Human Physiological Anatomy II | 5 |
| HN 309—Nutrition Science II | 3 |
| HN 413—Principles of Delivery of Public Health Nutrition | 3 |
| HN 318—Genetic, Molecular, and Cellular Mechanisms of Chronic Disease | 3 |
| Total Hours | 14 |

Senior Year

| Fall Semester | Hours |
|--|-----------|
| HN 202—Culture and Food | 2 |
| HN 300—Science of Food | 3 |
| HN 311—Nutrition during the Life Cycle | 3 |
| HN 320—Clinical Nutrition I | 4 |
| Electives | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|------------------------------|-----------|
| HN 340—Seminar | 1 |
| HN 341—The Research Process | 2 |
| HN 420—Clinical Nutrition II | 2 |
| Electives | 8 |
| Total Hours | 13 |

Minor in Nutrition

The Minor in Nutrition is open to majors from other units and colleges, including those in the BS in Kinesiology program, but not those students enrolled in the BS in Nutrition program. Students will be allowed to complete the minor area of study within Nutrition if they meet the transfer-eligibility criteria at the time of application (minimum GPA of 2.50/4.00). Students must submit a request form to the department (AHSB, Room 650). Students must also consult their home colleges about the acceptability and applicability of Nutrition course credit toward their degree. Registration for most HN courses is restricted to students in the department; therefore, students must register through a departmental academic advisor. A minimum cumulative GPA of 2.50/4.00 is required for the minor field.

Students must take the following courses for a minimum of 18 semester hours:

| Nutrition Minor Required Courses | Hours |
|---|-----------|
| HN 110—Foods | 3 |
| HN 196—Nutrition | 3 |
| HN 200—Nutritional Assessment ^a | 3 |
| NH 296—Nutrition and Physical Activity ^a | 3 |
| HN 307—Human Nutrition and Metabolism ^b | 3 |
| HN 311—Nutrition during the Life Cycle ^c | 3 |
| Total Minimum Hours—Nutrition Minor | 18 |

Students enrolled in the BS in Kinesiology, which already requires HN 196, must choose one of the following courses to replace the hours for HN 196:

HN 300—Science of Foods (3)^d
HN 202—Culture and Food (2)^e

^a The prerequisite for HN 200 and 296 is HN 196.

^b The prerequisite for HN 307 is HN 196 and one semester of college chemistry.

^c The prerequisite for HN 311 is HN 307.

^d The prerequisite for HN 300 is HN 110.

^e This course is approved for the Exploring World Cultures General Education category.

Enrollment Residence Requirement for the Minor

A student must complete at least one-half of the course work required for the minor field in enrollment residence at the University of Illinois at Chicago.

Undergraduate Research

Undergraduate students are strongly encouraged to participate in the research programs of their chosen area of concentration. A guided research project in either concentration can be one of the most valuable experiences of a college education. The Department of Kinesiology and Nutrition offers the following opportunities:

Independent Study

KN 396—Independent Study in Kinesiology is designed to be a flexible course allowing juniors and seniors to gain experience in Movement Sciences-related research. Taken for 1–3 hours, KN 396 requires close interaction with one or more faculty members over the course of one semester.

Senior Research Seminar and Project

The Senior Research Seminar and Project is offered as a capstone experience to students in both concentrations who have achieved a grade point average of 3.25/4.00 by their senior year of study. Eligible students complete the two-semester sequence by taking KN 398—Senior Research Seminar and KN 399—Senior Research Project. Typically, the first semester is devoted to developing and proposing a topic and obtaining any necessary approvals for the study (e.g., Institutional Review Board approval to work with human subjects). The second semester consists of implementing, writing, and presenting of the research project. Students earn six semester hours of graduation credit. In addition to the grade point average requirement, all Senior Research Seminars and Projects require a faculty mentor.

Summer Research Scholarship

Promising students of sophomore standing or above who have demonstrated an interest in the research of Kinesiology faculty may apply to receive a Summer Research Scholarship. Recipients of the award will work closely with a principal investigator and graduate students in a Kinesiology laboratory on a project designed by the student and faculty member. Depending on the length and nature of the research experience, the fellowship may include a stipend, tuition waiver, graduation credit, or some combination of the three. If the student and faculty member desire, the work accomplished during this experience may be later developed into the student's Senior Research Seminar and Project.

Professional Certifications

Courses in the Exercise and Fitness concentration have been developed to assist students in becoming certified as health/fitness professionals by organizations such as the American College of Sports Medicine, National Strength and Conditioning Association, and the American Council on Exercise. For information on certification, please see each organization's Web site.

College of Architecture and the Arts

Dean, Judith Russi Kirshner

103 Jefferson Hall (JH)

(312) 996-3351

<http://www.aa.uic.edu>

Administration: 303 JH

Student Services and Academic Advising: 208 JH

Departments/Schools: Architecture, Art and Design,

Art History, and

Performing Arts

Introduction

The College of Architecture and the Arts is a unique group of schools, departments, and centers whose programs focus on the exploration, analysis, and representation of our physical, social, and sensory environments. The college embraces all the visual and performing arts as well as architecture and art history, and occupies a unique position in Chicago as the only place where one can prepare for a career in the arts within a major research university. Instruction in the college is enriched by a faculty of practicing architects, artists, designers, art historians, musicians, directors, and theatrical designers. This faculty adds dimensions of professional experience, current issues, and ongoing research to the traditional concepts of disciplinary areas within the college.

The college promotes collaborations and integration among its different programs, and is strongly committed to interdisciplinary education breaking new ground in the arts and arts research. Its diverse programs emphasize urban engagement and are informed by current thinking in the use of new technologies for artistic expression and instruction. The College of Architecture and the Arts has been extending the traditional boundaries of education in order to meet the contemporary challenges of a global economy. Faculty and students alike realize that the next generation of graduates must be equipped to engage creatively and knowledgeably in the current global cultural arena and become familiar with international standards, artistic concerns, and procedures. The college has developed a number of faculty and student international exchange programs in Argentina, Austria, Brazil, Canada, France, Germany, Italy, The Netherlands, Mexico, Russia, Sweden, and Switzerland.

Through its many educational programs and collaborations, the college has become a formidable educational resource in community development and in the changing modern urban environment. Developing connections with a wide range of programs and resources in the university, the College of Architecture and the Arts is engaged as a leader in visual and performing arts education and research in the city of Chicago, the nation, and the world.

The College of Architecture and the Arts is composed of the School of Architecture, the School of Art and Design, the Department of Art History, the Department of Performing Arts, the City Design Center, and the Jane Addams Hull-House Museum. Curricula are offered in architecture, art and design, art history, and performing arts (music and theatre) leading to the baccalaureate in those fields. In the fields of architecture and art, the major emphases are on creative processes and studio work with a variety of supportive lectures and seminar programs. In art history, the emphasis is on scholarly study of the arts of the past; lectures, seminars, and independent research are conducted on campus and in museums and libraries

throughout the Chicago area. Music emphasizes skills and knowledge that are fundamental to the entire discipline: music theory, music history, performance, aural and keyboard training, orchestration, composition, conducting, and ensemble participation. Theatre majors study the arts that contribute to theatre production—acting, directing, and design—as well as drama in its critical and historical context.

All work submitted by students for credit in any course in the college belongs to the Board of Trustees of the University of Illinois; the University reserves the right to retain, copyright, use, exhibit, reproduce, and publish any work so submitted.

For information on the College of Architecture and the Arts, see the Web page <http://www.aa.uic.edu>.

Accreditation

The Bachelor of Fine Arts programs in Graphic Design and Industrial Design are accredited by the National Association of Schools of Art and Design (NASAD).

Qualified graduates from the Bachelor of Science in Architecture program may apply for advanced standing in the School's professional Master of Architecture degree program, or at other accredited schools of architecture. The University of Illinois at Chicago's Master of Architecture program is accredited by the National Architectural Accrediting Board (NAAB). Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. Although oriented to NAAB criteria, UIC's undergraduate preprofessional degree is not an accredited professional degree.

Degree Requirements

To earn a College of Architecture and the Arts degree from UIC, students need to complete University, college, and department/school degree requirements. University and college degree requirements for all College of Architecture and the Arts students are outlined below. Students should consult their department or school section for additional degree requirements.

Semester Hour Requirement (see next page)

Course Requirements

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. Students are required to complete a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses for each General Education Core category, students should consult the *General Education* section of the catalog. Information on meeting the General Education Core requirements for each degree program is provided in the College of Architecture and the Arts department sections.

Semester Hour Requirement

The College of Architecture and the Arts semester hour requirement varies by degree program.

| Major | School/Department | Degree Conferred | Total Hours |
|---|-------------------|---------------------------------|-------------|
| Architecture | Architecture | BS in Architecture | 130 |
| Art Education | Art and Design | BFA in Art Education | 130 |
| Art History | Art History | BA in Art History | 120 |
| Electronic Visualization ^a | Art and Design | BFA in Electronic Visualization | 134 |
| Graphic Design | Art and Design | BFA in Graphic Design | 134 |
| Industrial Design | Art and Design | BFA in Industrial Design | 134 |
| Moving Image | Art and Design | BFA in Moving Image | 130 |
| Music—Basic, Performance, and Jazz Studies Concentrations | Performing Arts | BA in Music | 120 |
| Performance | Performing Arts | BFA in Performance | 120 |
| Photography | Art and Design | BFA in Photography | 130 |
| Studio Arts—Painting and Sculpture Concentrations | Art and Design | BFA in Studio Arts | 130 |
| Theatre—Performance and Directing/Design Concentrations | Performing Arts | BA in Theatre | 120 |

^a **Note:** Until further notice the BFA in Electronic Visualization program is not accepting applications for admission.

General Education Proficiencies—University Writing Requirement

College of Architecture and the Arts students meet the requirement by achieving a passing grade in English 160 and 161.

Foundation Course Requirements

Each school and department in the college has a different set of foundation and major course requirements. Students must fulfill all the foundation and major course requirements outlined for their degree program.

Other Requirements

Course Level Requirement

Each school or department in the College of Architecture and the Arts has specific upper-level requirements for their degree programs. Students should consult the individual unit for details on required 200-, 300-, or 400-level course work.

Course Work Limitations

Course work that duplicates previous credit does not count toward graduation; no credit is given for a course in which a failing grade is received.

Credit earned in ESL 050 and 060, Mathematics 070 and 090, and English 070 and 071 will not fulfill college degree requirements. (By exception, students may earn 3 semester hours of credit in English 070 or 071 and receive a waiver of English 160 for the term in which they receive written authorization from the Department of English.)

Students whose placement test results require taking several courses that carry no graduation credit should plan on additional terms of enrollment to complete the required curriculum. All courses are included, however, for determining a student's full-time/part-time status; for computing cumulative grade point averages (except for 000-level courses); and in determining probation, dismissal, and Dean's List statuses.

Elective Credit

The University, college, and department degree requirements may not provide all the hours required for graduation. The remaining credits are completed through elective courses, whose careful selection should serve to enrich students' knowledge and understanding. Elective courses should always be chosen for educational ends and not for the sake of convenience.

Full-Time Enrollment

Students in the college are expected to carry a full-time load in order to make satisfactory progress toward their degree. Students should consult with their school/department advisor if they enroll in a part-time schedule to determine their degree progress and projected graduation date.

Grade Point Average (GPA) Requirement

College of Architecture and the Arts students cannot graduate with less than a 2.00/4.00 GPA in all work taken at UIC, in all work taken in the major field, and in all work accepted for transfer by the University (transfer work plus work taken at UIC).

Graduation Declaration/Filing to Graduate

Students who are within two terms of graduation should first contact their school or department and the college office for a complete check of their progress toward the degree. A diploma cannot be ordered until a student has completed this graduation check.

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Enrollment Residence Requirement

Either the first 90 or last 30 credit hours of degree work must be completed in continuous, uninterrupted enrollment residence at UIC. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement for graduation. Students who transfer from an accredited community college must earn at least 60 credit hours at an approved four-year institution and must meet the enrollment residence requirement of earning the last 30 semester hours at UIC.

Transfer Credit

No more than 60 semester hours (90 quarter hours) of credit may be accepted as transfer work from a community

or junior college. Transfer students from community or junior colleges should consult with the major department or school to discuss transfer credit. All final acceptance of transfer credit will be determined by the college upon review of recommendations by the school or department.

Transfer Credit for Continuing Students

Continuing students in the College of Architecture and the Arts must submit a petition in order to take courses at other universities for credit toward the baccalaureate degree.

College Policies

Academic Load

During the fall and spring semesters, a full-time program is from 12 to 18 hours. Above 18 semester hours is considered an overload and may only be taken if a student is recommended by a school or department advisor and approved in the college office. For Summer Session 1 (Four-Week) and Summer Session 2 (Eight-Week), UIC considers a total aggregate of 6 semester hours as the minimum number necessary to constitute full-time enrollment, and a program of more than 14 hours must be approved.

Academic Probation and Dismissal Rules

Students on academic probation are notified by letter to see a college advisor for counseling. Counseling is viewed by the college as an important determinant in the retention of students. Students may be referred to the Counseling Center or other campus offices as deemed appropriate for retention purposes. Counseling may be made part of the conditions of academic probation.

Probationary status is determined by letter grades earned at the end of any term. Grades of I (incomplete) do not exempt a student from probationary and dismissal regulations.

Probation Rules

Academic Probation. A student whose term grade point average or UIC cumulative grade point average or combined UIC and transfer grade point average is below 2.00/4.00 is placed on academic probation and advised to enroll full-time for a minimum of 12 semester hours of credit and earn grades of B or better the next term in residence, excluding the summer session. Students unable to maintain a minimum of 12 semester hours of enrollment should consult with a college advisor to establish a plan for satisfactory progress.

Terminal Probation. A student who is on probationary status for two consecutive terms is placed on terminal probation. The student is required to make an appointment to see an advisor in the college office during the third and fourth weeks of the following semester. Students on terminal probation may be dismissed for poor academic progress and are jeopardizing their enrollment in the University.

Dismissal Rules

A student on academic or terminal probation may be dismissed from the University under one of the following conditions:

1. Failure to earn at least a 2.00/4.00 (C) average while on academic probation.
2. Failure to meet any special conditions stated at the time of probation.
3. Failure to earn at least 3 hours of credit and whose term grade point average is 1.00/4.00.
4. Failure to make progress towards completion of the degree requirements of the college.

Students should follow the advice in the letter sent to them.

Beginning Freshman Admission

Admission to the college is highly selective and competitive, and admission standards are much higher than the minimum ACT/SAT and HSPR for the campus. Due to the high demand for limited spaces in the college's programs, it is recommended applicants submit their credentials as early as possible in their senior year in order to have the best chance for admission. All admission decisions are final due to the demand for space in all programs. All programs require international applicants to present a minimum Test of English as a Foreign Language (TOEFL) score of 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 (Internet-based).

Change of Course Schedule—Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program. College of Architecture and the Arts students must complete a request form in 208 JH.

Change of Major

Students wishing to change majors within the college should consult the individual school or department advisor(s) and complete an application in the college student affairs office, 208 JH.

Class Attendance

Students are expected to attend all lectures, discussions, and laboratory/studio sessions. School or department faculty may establish minimum attendance requirements.

Closed Courses

No student may be admitted to a closed course in the college unless the director or chairperson has approved an increase in capacity, which is usually restricted by educational policies, budget, and maximum room capacities.

Course Prerequisites

Course prerequisites are listed in both the *Undergraduate Catalog* and the semester *Schedule of Classes*. Only the director or chairperson may waive a prerequisite, if given evidence that the student is adequately prepared to pursue the subject area.

Credit/No Credit Option

Students may elect to take a course under the credit/no credit option according to the following provisions:

1. The student must be in good standing. Students on probation or whose status is undetermined at the time in which they elect the option are not eligible.
2. A maximum of 21 semester hours of credit may be earned at UIC under the credit/no credit option. If a student withdraws from a credit/no credit course before the end of the last day of instruction in the sixth week of the term, the credit hours the course carries will not count toward the total of 21 authorized.
3. No more than one course per term may be taken under this option.

4. This option may not be used in any course required for the major or a minor, including prerequisite and collateral courses. This includes any course specifically listed by rubric or course number as a requirement in a student's curriculum.
5. Under certain conditions, electives may be taken under credit/no credit; courses being used for specific graduation requirements (such as art history electives) must be taken for a letter grade. For specific credit/no credit rules for prerequisite and collateral courses in the Bachelor of Science in Architecture and Bachelor of Fine Arts degrees, see the *Student Handbook* for the School of Architecture and School of Art and Design.
6. This option may not be used for English 160 and 161.
7. Students may not use credit/no credit to satisfy foreign language requirements in college programs requiring one- or two-year sequences.
8. Students must apply at their college office no later than the tenth day of the term (first Wednesday of Summer Session 1 or first Friday of Summer Session 2) to have a course designated for credit/no credit grading option. Students must report to 208 JH to complete a credit/no credit request form.
9. The credit/no credit option cannot be revoked after the close of the tenth day of instruction in the term.
10. Instructors are not informed that the option has been elected but assign a letter grade in the usual manner.
11. For courses taken under the credit/no credit option, a grade of CR is recorded on the transcript if a letter grade of A, B, C, or D is earned. If the letter grade F is assigned, an NC is entered on the transcript. I and DF grades are replaced by CR or NC upon completion of the courses or converted to NC if the course completion deadline for an I is not met.
12. The grades of CR and NC are not used in the computation of the grade point average. It is the responsibility of the student to determine eligibility under the credit/no credit option. Students will not be notified if they are ineligible for the credit/no credit option.

Declaring a Major

Students who have completed the foundation program in Art and Design and/or who have earned at least 60 semester hours must declare a major with their school.

Double Major, Double Degrees, and Second Bachelor's Degree

Double Major

This option is not available in the College of Architecture and the Arts.

Double Degrees

A student may receive two degrees concurrently from the College of Architecture and the Arts. The student must complete a minimum of 30 semester hours of credit beyond the requirements of the first degree in courses not offered for the first degree. The student must additionally meet all the requirements for the second degree specified by the college and the major. Students seeking double degrees should contact the appropriate school or department for a curriculum evaluation and then make a declaration for double degrees in the college office.

Second Bachelor's Degree

Students who have already earned a bachelor's degree from UIC or another institution may receive a second bachelor's degree from the College of Architecture and the Arts. Students seeking a second bachelor's degree must formally apply to the program. The student must complete a mini-

mum of 30 semester hours of credit beyond the requirements of the first degree in courses not offered for the first degree. The student must additionally meet all the requirements for the second degree specified by the college and the major.

Full-Time Enrollment

Students in the college are expected to carry a full-time load in order to make satisfactory progress toward their degree. Students should consult with their school/department advisor if they enroll in a part-time schedule to determine the consequences to their degree program and projected graduation date.

Graduate-Level Courses for Undergraduate Credit

With school or department approval, an undergraduate student may enroll in a course in the Graduate College (500-level) for undergraduate elective credit. Students should obtain approval prior to enrollment.

Students should understand, however, that graduate courses do not automatically apply toward an undergraduate degree. Additionally, graduate-level courses taken by an undergraduate student are generally not applicable toward a graduate degree.

Independent Study

The college offers courses entitled Independent Study, in which a student's special interests may be pursued under the direction of a faculty member. To enroll in such a course, the student must obtain consent of the instructor and the school or department offering the course.

Petition Procedure

Any rule, regulation, or action of the college may be appealed through the use of a student petition. Petitions are available in the college office. It is the student's responsibility to obtain all necessary approvals on the form before submitting it to the college office for review. Turning in the form does not guarantee approval of the request. Students will be notified of a decision, but they should inquire on the status of their petition after ten working days.

Proficiency Examinations

Students interested in earning proficiency credit should contact the school or department directly for information concerning eligibility. A student who earns proficiency credit is given the amount of credit toward graduation regularly allowed in the course. Proficiency credit is not considered an interruption of enrollment residence for graduation, nor does it apply toward satisfying the minimum requirement of the degree if the last 30 semester hours must be earned in enrollment residence.

Registration Approval

Students in the Department of Art History and the Department of Performing Arts must consult with an advisor for registration. An advising hold will be placed on each registration and will only be released upon verification of department advising.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. Some colleges require students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. Normally, courses with a C grade may not be repeated. Courses with

D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college dean. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course is **not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Transferring

Intercollege Transfer Students

UIC students interested in admission to one of the majors offered in the college must complete an intercollegiate application available in the college office, 208 Jefferson Hall. All applicants must be in good standing, not on academic probation or undetermined status. Eligibility varies by department and school.

| Department/School | Minimum GPA |
|-------------------|-------------|
| Architecture | 2.75/4.00 |
| Art and Design | 2.75/4.00 |
| Art History | 2.75/4.00 |
| Performing Arts | 2.50/4.00 |

Admission to the college is selective and competitive and admissions standards are higher than the minimum grade point average requirement.

Transfer Students from Other Colleges and Universities

The minimum transfer grade point average for admission to the College of Architecture and the Arts varies with each school or department. Admission and placement in the School of Architecture and the School of Art and Design are highly competitive, and admission is determined by the availability of space in the level of program appropriate for

the transfer student. All admission decisions are final due to the demand for space in all programs. Students should refer to the requirements listed for each program.

| Department/School | Portfolio/Audition | Minimum GPA |
|-------------------|---|-------------|
| Architecture | Portfolio for advanced placement | 2.75/4.00 |
| Art and Design | N/A | 2.75/4.00 |
| Art History | Writing Sample | 2.75/4.00 |
| Performing Arts | Audition for Performance options Interview for Directing/Design option | 2.50/4.00 |

All programs require international applicants to present a minimum Test of English as a Foreign Language (TOEFL) score of 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 (Internet-based).

School of Architecture. Students who have completed at least one full year of architectural design work at another university or college are eligible to apply for advanced placement in the School of Architecture. Applicants wishing to apply for advanced placement must submit a portfolio of design work to the academic advisor in the school. For more information on the portfolio requirement, please visit http://www.arch.uic.edu/admissions/ug_transfer.php

Advanced placement is a competitive process that is limited to spaces available in the level of program appropriate for the transfer student. Acceptance into the school does not guarantee advanced placement.

School of Art and Design. Students who have taken art and design courses at a community college should be aware that for certain majors these courses will be credited as electives only. Art and design courses from other colleges and universities will be assessed for credit, pending portfolio review, by the faculty of that major. Because courses are structured around specific goals, the school strongly encourages potential majors to complete their first-year program requirements at UIC's School of Art and Design. **PLEASE NOTE:** All areas will require a portfolio review upon completion of the first-year program before entry into a major. Portfolios will be reviewed in April, and students will be admitted into the major during the fall semester only. Please contact the department via e-mail at artinfo@uic.edu or go to the Web site <http://adweb.aa.uic.edu/web> for information regarding the dates and times for this review.

Department of Art History. Admission to the Department of Art History is selective and competitive; admissions standards are typically higher than the stated minimum grade point average. A writing sample is required of all applicants.

Department of Performing Arts. For advanced placement in the Bachelor of Arts in Music or Bachelor of Arts in Theatre programs, introductory music courses require a minimum grade of C and introductory theatre courses require a minimum grade of B. Performance options require an audition. Also, music transfer students will be required to take a placement test in music theory to determine the correct level in which to place them.

Transferring Out of the College

A student in the College of Architecture and the Arts who wants to transfer into another college must follow the new college's application procedure.

Minors

The College of Architecture and the Arts offers the following minors.

| Minor | Department/School | Hours |
|-------------|-------------------|-------|
| Art History | Art History | 20 |
| Music | Performing Arts | 21 |
| Studio Arts | Art and Design | 24 |
| Theatre | Performing Arts | 18 |

Academic Advising

Advising Policy

Students in the college are required to see an advisor for registration and enrollment. Advisors are generally assigned to students during the academic year.

Contact Information

Both the School of Architecture and the School of Art and Design post advisor assignments. Students in Art History should check with the departmental office for assignment of advisors. Students in the Department of Performing Arts should consult the department for specific instructions concerning the assignment of faculty advisors.

Academic Honors

College Honors

College Honors will be awarded at the time of graduation to students who have earned a GPA of at least 3.40/4.00 for all work presented for the degree, and who rank among the top 15 percent of the students graduating in the college.

Dean's List

Outstanding academic achievement in the College of Architecture and the Arts is recognized by inclusion on the Dean's List. Eligibility is based on a 3.50/4.00 term GPA with a program of 12 semester hours of letter grades in a regular semester or 8 semester hours of letter grades in the summer session. If any course is taken on a credit/no credit basis, a grade of CR must be earned.

Student Organizations

American Center for Design (Graphic Design) (ACD)
 American Institute of Architects (Student Chapter) (AIAS)
 American Institute of Graphic Artists (AIGA)
 Arquitectos (Student Chapter) (ARQ)
 Chicago Circle Players (Theater)
 Concert Band
 F-Stop (Photography)
 Industrial Design Society of America (Student Chapter) (IDSA)
 National Organization of Minority Architects (Student Chapter) (NOMAS)
 UIC Choirs

SCHOOL OF ARCHITECTURE

3100 Art and Architecture Building (AA)
 (312) 996-3335
arch@uic.edu
<http://www.arch.uic.edu>
 Administration: Director, Robert Somol
 Academic Advisor: Maria Tolbert

BS in Architecture

The four-year Bachelor of Science in Architecture program provides a preprofessional education in architecture within the broader context of liberal arts courses provided by the University. The broad-based knowledge and skills provided by a liberal arts education assures graduates that they can adapt to the complex demands of a rapidly changing profession and environment.

The preprofessional degree is useful for those who want a foundation in the field of architecture as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.

Qualified graduates from the BS in Architecture program may apply for advanced standing in a professional Master of Architecture degree program such as that offered at the University of Illinois at Chicago or at other accredited schools of architecture. Graduates who do not choose to continue into a professional degree program may work in related architectural careers or apply for advanced degrees in landscape architecture, urban design and planning, law, public policy, history/theory of architecture, or business.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. For details on the graduate program, please refer to the School of Architecture Web site and the UIC *Graduate Catalog*.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which when earned sequentially comprise an accredited professional education. However, the preprofessional degree is not by itself recognized as an accredited degree.

Degree Requirements

To earn a Bachelor of Science in Architecture degree from UIC, students need to complete University, college, and school degree requirements. The School of Architecture degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies. In addition to college and University GPA requirements, students must maintain a C average in studio each year.

| BS in Architecture Degree Requirements | Hours |
|--|------------|
| Core Courses | 94 |
| Distribution Requirements | 30 |
| Additional Electives | 6 |
| Total Hours—BS in Architecture | 130 |

Core Courses

The core courses in the curriculum provide a foundation in the discipline of architecture through the study of the visual and verbal languages of architectural form and the materials and techniques of architectural production. Courses in math and the natural sciences, art and architectural history, humanities, and the social sciences as well as the profession of architecture enable students to make rational decisions about career options relative to their personal strengths and weaknesses.

| Courses | Hours |
|---|-----------|
| ARCH 105—Design Foundations: Visual Studies | 4 |
| ARCH 106—Design Foundations: Physical Studies | 4 |
| ARCH 205—Building Design I | 4 |
| ARCH 206—Building Design II | 4 |
| ARCH 251—Architectural Analysis | 3 |
| ARCH 252—Beginnings of Modern Architectural Theory | 3 |
| ARCH 359—Building Science I | 4 |
| ARCH 360—Building Science II | 4 |
| ARCH 365—Building Design Studio III | 6 |
| ARCH 366—Building Design Studio IV | 6 |
| ARCH 371—Design and the Environment | 3 |
| ARCH 372—Design and the City | 3 |
| ARCH 470—Structures I | 4 |
| ARCH 471—Structures II | 3 |
| ARCH 414—Professional Practices | 3 |
| ARCH 465—Comprehensive Studio | 6 |
| ARCH 466—Option Studio | 6 |
| MATH 180—Calculus I ^a | 5 |
| PHYS 105—Introductory Physics I Lecture ^a | 4 |
| PHYS 106—Introductory Physics I Laboratory ^a | 1 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| AH 110—Art History I ^b | 4 |
| AH 111—Art History II ^b | 4 |
| Total Hours—Core Courses | 94 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b This course is approved for the Understanding the Creative Arts General Education category.

Distribution Requirements

| Courses | Hours |
|--|-----------|
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Two courses in Art History | 6 |
| Liberal Arts courses | 12 |
| Total Hours—Distribution Requirements^a | 30 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

Additional Electives

| Courses | Hours |
|---|----------|
| Free Electives | 6 |
| Total hours—Additional Electives | 6 |

Sample Course Schedule

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| ARCH 105—Design Foundations: Visual Studies | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Understanding the Past course | 3 |
| Understanding the Individual and Society course | 3 |
| LAS Elective (choose any Liberal Arts and Sciences course) | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|-----------|
| ARCH 106—Design Foundations: Physical Studies | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course | 3 |
| Understanding U.S. Society course | 3 |
| LAS Elective (choose any LAS course) | 3 |
| Total Hours | 16 |

Sophomore Year

| Fall Semester | Hours |
|---------------------------------|-----------|
| ARCH 205—Building Design I | 4 |
| ARCH 251—Architectural Analysis | 3 |
| MATH 180—Calculus I | 5 |
| AH 110—Art History I | 4 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|-----------|
| ARCH 206—Building Design II | 4 |
| ARCH 252—Beginnings of Modern Architectural Theory | 3 |
| PHYS 105—Introductory Physics I—Lecture | 4 |
| PHYS 106—Introductory Physics I—Laboratory | 1 |
| AH 111—Art History II | 4 |
| Total Hours | 16 |

Junior Year

| Fall Semester | Hours |
|---|-----------|
| ARCH 365—Building Design Studio III | 6 |
| ARCH 359—Introduction to Building Science I | 4 |
| ARCH 371—Design and the Environment | 3 |
| AH Elective (choose any Art History course at the 200-level or higher) ^a | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|-----------|
| ARCH 366—Building Design Studio IV | 6 |
| ARCH 360—Introduction to Building Science II | 4 |
| ARCH 372—Design and the City | 3 |
| Elective (choose any course offered at UIC) | 3 |
| Total Hours | 16 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| ARCH 465—Comprehensive Studio | 6 |
| ARCH 414—Professional Practices | 3 |
| ARCH 470—Structures I | 4 |
| Elective (choose any course offered at UIC) | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|---|-----------|
| ARCH 466—Option Studio | 6 |
| ARCH 471—Structures II | 3 |
| AH Elective (choose any Art History course at the 200-level or higher) ^a | 3 |
| LAS Elective (choose any LAS course) | 3 |
| Elective (choose any course offered at UIC) | 3 |
| Total Hours | 18 |

^a For this requirement, students can choose any Art History course at the 200-level or higher. For those students planning to go to graduate school in architecture at UIC or elsewhere, History of Architecture courses within the Art History sequence are highly recommended.

Distinction

Distinction in architecture is awarded to students who qualify as described below.

Distinction: A grade point average of at least 3.30/4.00 in all Architecture courses.

High Distinction: A grade point average of at least 3.50/4.00 in all Architecture courses.

Highest Distinction: A grade point average of at least 3.70/4.00 in all Architecture courses.

Study Abroad

The School of Architecture offers several study abroad options. Further details are available from the School of Architecture.

SCHOOL OF ART AND DESIGN

106 Jefferson Hall (JH)

(312) 996-3337

artinfo@uic.edu

<http://www.uic.edu/aa/artd/>

Administration: Director, Marcia Lausen

Student Services: Coordinator, Rashmi Mariyappa,
Annabelle Clark

Academic Advisors: Erin Brady, Emily Anderson

The programs of the School of Art and Design provide students with the aesthetic and critical perspectives vital for careers in art and design. Central to the UIC approach are studio courses which engage students in the development of significant creative works as well as independent research using the entire University and city as a base for learning. All courses include comprehensive exposure to a wide range of possibilities for creative expression and problem solving.

The first-year program introduces students to a wide range of possibilities for creative expression and problem solving. After completion of the first-year program, students will participate in an all-School portfolio review to gain acceptance into one of seven areas of concentration. The majors in the School of Art and Design are: Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, Studio Arts, and Art Education. By the senior year, students in the programs based in Art and Design Hall (Moving Image, Photography, and Studio Arts) are working together in an advanced interdisciplinary program. Likewise, students in the programs based in Art and Architecture Building (Electronic Visualization, Graphic Design, and Industrial Design) are encouraged to collaborate in interdisciplinary projects and to share an advanced Design Colloquium. Areas of collaborative study include the UIC Interdisciplinary Product Development program, which teams design students with students in the College of Business and the College of Engineering. Senior

level professional practice courses offer additional opportunities to engage in projects with industry and government.

Electronic Visualization educates artists and designers in the technologies of advanced computer and video interactivity, and empowers students with a solid knowledge of the history and theories of responsive arts. Program curriculum introduces responsive technologies and their basic application processes in an incremental, lab-based approach. Students become effective programmers, using computer technology to create new visual statements and electronic forms of communication. Audiovisual tools are used as a vehicle for personal and aesthetic expression with applications across a wide range of professional career opportunities, including animation, motion graphics, new media art production, scientific and industrial visualization, and broad based visualization research and development.

Graphic Design can be described as the process of visually communicating ideas and information through the use of signs, symbols, and images. The Graphic Design curriculum prepares students for professional careers in a variety of disciplines that constitute contemporary practice. Through structured practical and theoretical exercises, the program seeks to develop in its students a broad visual vocabulary and wide range of analytical, organizational, and technical skills that encompass the entire scope of visual communications. The program utilizes contemporary technology in print, film, video, and digital computers to expose students to a wide range of design possibilities.

Industrial Design emphasizes the development of concepts and prototypes for a range of product design applications. Curriculum focuses on design processes and research and materials and methods for a wide range of design applications that focus on improving people's lives. Students experience a unique learning opportunity that takes advantage of the University's interdisciplinary programs in a dynamic urban center. Ties to Chicago area industry allow for experience with collaborative and practical research and development. Collaborating area organizations include: Chicago Mercantile Exchange, Copco, Design for Democracy, Rehco, Motorola, and Whirlpool.

Moving Image places focus on creative and alternate approaches to both experimental and documentary forms in the filmmaking process. The program includes production courses, seminars, and independent study in film, video, and digital animation. Video courses encourage the use of electronic media as a tool for personal expression. Animation is considered in the broadest sense of single-frame motion design, synthesizing multiple approaches and techniques. Screenings of work by nationally and internationally recognized artists introduce students to a wide variety of formal and conceptual concerns. On the introductory level, basic production and editing skills are emphasized, while the advanced students can deepen their experience through directed projects.

Photography is a medium for recording, communication, and personal expression. Students are expected to explore the social, cultural, and aesthetic possibilities of the medium within an interdisciplinary art program. Study leads to professional careers in a variety of disciplines that constitute contemporary photographic practice, including art, documentation, and education. The program includes production courses that develop needed skills in both analog and digital photographic processes, interdisciplinary seminars that explore the cultural, theoretical, and aesthetic potential of the medium, and advanced studio critique courses leading to a BFA thesis exhibition.

Studio Arts is a unique program, set in a research institution within a vital urban environment, which prepares students for a career in contemporary art practice or for

advanced graduate study. Students may concentrate in painting or sculpture within the context of current art disciplines. In addition to studio courses, students participate in seminars on the practice and theory of contemporary art. Seminars and advanced studio classes are interdisciplinary in nature and include students from Photography and Moving Image. Before graduating, each student is required to produce and document a final BFA thesis exhibition in the galleries of Art and Design Hall.

Art education at UIC provides the requirements for Illinois state teacher certification, and the education needed for students to become effective teachers/artists and teachers/researchers at the high school and middle school levels. The curriculum is based on the premise that an understanding of art theory, technical competence in art making, and skill in effective communication, supported by a broad background in the liberal arts and sciences, is vital to proficient and inspiring teaching. Upon completion of the program, students are eligible for secondary teacher certification (Type 09) after evaluation by the Illinois State Teacher Certification Board.

All entering students are required to buy a laptop computer through our Laptop Purchase Program, which provides hardware and software required for each major at a discounted rate.

Accreditation

The Bachelor of Fine Arts programs in Graphic Design and Industrial Design are accredited by the National Association of Schools of Art and Design (NASAD).

School of Art and Design Degree Requirements

Students are expected to attend all scheduled studio classes and are expected to spend a minimum of six additional studio hours per week outside of scheduled class time in completion of assignments. In addition, students must engage in significant extracurricular creative work and independent research including, but not limited to, attendance at special seminars, tutorials, lectures, and scheduled trips to Chicago's galleries and museums.

To earn a Bachelor of Fine Arts degree from the School of Art and Design, students need to complete University, college, and school degree requirements. The School of Art and Design degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

First-Year Program for All Art and Design Degree Programs

The first-year program is included in all art and design degree programs. Appropriate placement in the program is made for transfer students who have completed equivalent course work. The following courses are to be completed before students begin taking courses in the major.

| Courses | Hours |
|---|-----------|
| AD 102—Drawing I | 4 |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | 4 |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | 4 |
| AD 170—Introduction to Time-Based Visual Arts | 4 |
| Total Hours—First-Year Program | 24 |

BFA in Art Education

For the degree of Bachelor of Fine Arts in Art Education, a total of 130 semester hours is required. The Secondary Certificate (Type 09) is not automatically awarded upon successful completion of degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the UIC Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. See the *Council on Teacher Education Handbook* available in 3015 EPASW for more information. Also, see the *College of Education* section of this catalog.

Middle School Endorsement (grades 6, 7, and 8) to the Secondary Certificate additionally requires the completion of CI 484 (3 hours) and EPSY 466 (3 hours).

After completing the School of Art and Design First-Year Program, students who meet or exceed a minimum 2.50/4.00 cumulative GPA and a 3.00/4.00 GPA in Art and Design courses may submit an application and portfolio to the Pre-Art Education Program.

Admission into the Pre-Art Education Program does not guarantee placement in the Art Education Professional Core sequence. At the end of the sophomore year at UIC (or transfer students who have completed first-year course work and have a minimum of 60 or more hours applicable to the Art Education degree), students submit an application and portfolio as well as complete an interview with the coordinator of Art Education. Successful applicants will be enrolled in the Professional Art Education Core sequence.

Students are required to apply for certification candidacy with the UIC Council on Teacher Education at the same time they apply to the Professional Art Education Core sequence. The Basic Skills Test must be passed before applying for candidacy. The Content Area Test (Art 6–12) must be passed before the candidate is allowed into practice teaching. The Assessment of Professional Teaching must be passed prior to granting certification. For information on application procedures and testing schedules, contact the Council on Teacher Education located in 3015 EPASW. Also, see the *College of Education* section of the catalog.

Students are required to maintain a 2.50/4.00 cumulative GPA and 3.00/4.00 Art and Design GPA throughout the curriculum. For information on admission to the Art Education major, current portfolio deadlines, and submitting a successful portfolio, see the *UIC School of Art and Design Handbook*, the *Program Guide for Teacher Education in Art*, and meet with a School of Art and Design advisor.

Degree Requirements—Art Education

To earn a Bachelor of Fine Arts in Art Education degree from UIC, students need to complete University, college, and school degree requirements. The Art Education degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

| BFA in Art Education Degree Requirements ^a | Hours |
|---|------------|
| First-Year Program | 24 |
| General Education and Foundation Courses | 36 |
| Professional Core | 37 |
| Art Education Major Courses | 32 |
| Free Elective (if required) | 1 |
| Total Hours—BFA in Art Education | 130 |

^a Students must achieve a grade of Credit or C or higher for courses to count toward degree requirements. English 160 and 161, Art and Design, Education, and Art History courses may not be taken credit/no credit.

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| THTR 161—Introduction to Acting I | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Analyzing the Natural World course ^{ab} | 4 |
| Understanding the Past course ^a | 3 |

One course in Art History at the 200-level or above chosen from the following:

| | |
|--|---|
| AH 263 —Latin American Colonial Art (3) ^c | 3 |
| AH 264—African American Art History (3) ^c | 3 |
| AH 269—Art and Archaeology of South America (3) ^c | 3 |
| AH 270—African Art (3) ^c | 3 |
| AH 271—Native American Art (3) ^c | 3 |
| AH 273—Pre-Columbian Art of South America (3) ^c | 3 |
| AH 274—Pre-Columbian Art of Mesoamerica (3) ^c | 3 |
| AH 275—South Asian Visual Cultures (3) ^c | 3 |
| AH 110—Art History I ^d | 4 |
| AH 111—Art History II ^d | 4 |
| AH 160—Trends in International Contemporary Art since 1960 | 3 |

Total Hours—General Education and Foundation Courses 36

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b Students who select a course worth less than 4 hours from the Analyzing the Natural World list will need to take an additional General Education Core course as part of their electives.

^c This course is approved for the Exploring World Cultures General Education category.

^d This course is approved for the Understanding the Creative Arts General Education category.

Professional Core

| Courses ^a | Hours |
|--|-----------|
| ED 200—Education Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction, Evaluation | 4 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| AD 281—Foundations of Art Education | 4 |
| AD 382—Art Education Practicum | 4 |
| AD 482—Visual and Verbal Literacy | 4 |
| AD 484—Educational Practice with Seminar I ^b | 6 |
| AD 485—Educational Practice with Seminar II ^b | 6 |
| Total Hours—Professional Core | 37 |

^a Students must earn a cumulative 3.00/4.00 in their Education sequence (ED 200, 210, 330, and SPED 410) and they must earn a 3.00/4.00 in their Art Education Sequence (AD 281, 382, 482) in order to be eligible for student teaching. GPAs for Art Education and for Education are calculated separately. GPA for Art Education is calculated separately from GPA for Art Student Teaching.

^b A grade of B or higher in practice teaching is required for certification.

Art Education Major Courses

| Courses ^a | Hours |
|---|-----------|
| AD 203—Topics in Drawing Studio I | 4 |
| AD 205—Introduction to Computer Graphics | 4 |
| AD 230—Painting I | 4 |
| AD 290—Interdisciplinary Seminar I | 4 |
| Eight hours selected from one of the following areas: | 8 |
| Painting: AD 332, Repeat for credit | |
| OR | |
| Sculpture: AD 342, Repeat for credit | |
| OR | |
| Photography: AD 261, AD 262, AD 267, AD 268, AD 360, AD 362 | |
| OR | |
| Moving Image: AD 271, AD 274, AD 278, AD 371, AD 374, AD 378 | |
| AD electives chosen from any area of the School of Art and Design | 8 |
| Total Hours—Art Education Major Courses | 32 |

^a Students must earn a cumulative GPA of 3.00/4.00 in all of these courses with no grade less than C.

Free Electives

| Courses | Hours |
|--|----------|
| An elective hour may be required to reach the 130 total hours required for the degree. | 1 |
| Total Hours—Free Electives | 1 |

Sample Course Schedule—Art Education**Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| THTR 161—Introduction to Acting I | 3 |
| Total Hours | 18 |
| Spring Semester | Hours |
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| AH 160—Trends in International Contemporary Art since 1960 | 3 |
| Total Hours | 18 |

Sophomore Year

| Fall Semester | Hours |
|--|-----------|
| AH 110—Art History I | 4 |
| General Education Core course | 4 |
| AD Studio Arts, Photography, Moving Image, or Electronic Visualization | 4 |
| AD 203—Drawing II | 4 |
| Total Hours | 16 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| AH 111—Art History II | 4 |
| AD 230—Painting I | 4 |
| Art and Design Elective | 4 |
| AH Elective | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| ED 200—Education Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| AD 290—Studio Seminar I | 4 |
| General Education Core course | 3 |
| AD Studio Arts, Photography, Moving Image, or Electronic Visualization | 4 |
| Total Hours | 17 |

| Spring Semester | Hours |
|--|-----------|
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| AD 281—Foundations of Art Education | 4 |
| General Education Core course | 3 |
| AD 205—Introduction to Computer Graphics | 4 |
| AD Elective | 4 |
| Total Hours | 18 |

Senior Year

| Fall Semester | Hours |
|--|-----------|
| ED 330—Curriculum, Instruction, and Evaluation in Secondary School | 4 |
| AD 382—Art Education Practicum | 4 |
| AD 482—Visual and Verbal Literacy | 4 |
| AD Elective | 1 |
| Total Hours | 13 |

| Spring Semester | Hours |
|---|-----------|
| AD 484—Educational Practice with Seminar I | 6 |
| AD 485—Educational Practice with Seminar II | 6 |
| Total Hours | 12 |

Degree Requirements for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts**General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs**

| Courses ^a | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Analyzing the Natural World course ^{ab} | 4 |
| Understanding the Past course ^a | 3 |
| Exploring World Cultures course ^a | 3 |
| AH 110—Art History I ^c | 4 |
| AH 111—Art History II ^c | 4 |
| AH 160—Trends in International Contemporary Art since 1960 ^d | 3 |
| Total Hours—General Education and Foundation Courses | 33 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b Students who select a course worth less than 4 hours from the Analyzing the Natural World list will need to take an additional General Education Core course as part of their electives.

^c This course is approved for the Understanding the Creative Arts General Education category.

^d Students in Moving Image, Photography, and Studio Arts must take AH 160 as a foundation course. Students in Electronic Visualization, Graphic Design, and Industrial Design may take AH 160 or an additional elective course.

BFA in Electronic Visualization

To earn a Bachelor of Fine Arts in Electronic Visualization degree from UIC, students need to complete University, college, and school degree requirements. The Electronic Visualization degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies. A portfolio review is required prior to acceptance as a major in the Electronic Visualization curriculum.

Degree Requirements—Electronic Visualization

Note: Until further notice, the BFA in Electronic Visualization is not accepting applications for admission.

| BFA in Electronic Visualization Degree Requirements | Hours |
|---|------------|
| First-Year Program | 24 |
| General Education and Foundation Courses | 33 |
| Electronic Visualization Major Requirements | 66 |
| Electives outside the School of Art and Design | 11 |
| Total Hours—BFA in Electronic Visualization | 134 |

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

See previous section *General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs* for a list of courses to meet this requirement.

Electronic Visualization Major Requirements

| Courses | Hours |
|---|-------|
| AD 205—Introduction to Computer Graphics | 4 |
| AD 206—Intermediate Computer Graphics | 4 |
| AD 305—Electronic Visualization I | 4 |
| AD 307—Electronic Visualization II | 4 |
| AD 308—3-D Modeling: Alias | 4 |
| AD 309—Advanced 3-D Modeling/Animation | 4 |
| AD 415—Design Colloquium | 4 |
| AD 405—Smart Art: Physical Computing | 4 |
| AD 407—Virtual Reality I | 4 |
| AD 408—Virtual Reality II | 4 |
| AD 409—Electronic Visualization: Senior Project | 4 |
| AD electives chosen in consultation with the student's advisor ^a | 16 |

AH electives chosen with advisor's approval from the following:

| | |
|--|---|
| AH 204—Greek Art and Archaeology (3) | 6 |
| AH 230—History of Photography I—The Nineteenth Century (3) | |
| AH 231—History of Photography II—The Twentieth Century (3) | |
| AH 232—History of Film I: 1890 to World War II (3) | |
| AH 233—History of Film II: World War II to the Present (3) | |
| AH 404—Topics in Architecture, Art, and Design (3) | |
| AH 430—Contemporary Photography (3) | |
| AH 432—Topics in Film and Video (3) | |

Total Hours—Electronic Visualization Major Requirements 66

^a Students are strongly encouraged to take AD 322—Interactive Product Design and AD 425—Design Visualization as part of their 16-hour elective requirement to prepare them for working in this highly technical field.

Electives outside the School of Art and Design

| Courses | Hours |
|---|-----------|
| Total Hours—Electives outside the School of Art and Design | 11 |

**Sample Course Schedule—
Electronic Visualization****Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

Sophomore Year

| Fall Semester | Hours |
|--|-----------|
| AD 205—Introduction to Computer Graphics | 4 |
| AH 110—Art History I | 4 |
| AD Elective | 4 |
| General Education Core course (recommend COMM 103) | 3 |
| Elective (recommend CS 101) | 3 |
| Total Hours | 18 |

| Spring Semester | Hours |
|--|-----------|
| AD 206—Intermediate Computer Graphics | 4 |
| AH 111—Art History II | 4 |
| General Education Core course (recommend MATH 180) | 5 |
| Elective (recommend CS 102) | 3 |
| General Education Core course | 2 |
| Total Hours | 18 |

Junior Year

| Fall Semester | Hours |
|-------------------------------------|-----------|
| AD 308—3-D Modeling: Alias | 4 |
| AD 322—Interactive Product Design I | |
| OR | |
| AD Elective | 4 |
| AD 305—Electronic Visualization I | 4 |
| Elective (recommend MCS 360) | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

| Spring Semester | Hours |
|--|-----------|
| AD 309—Advanced 3-D Modeling/Animation | 4 |
| AD 425—Design Visualization | |
| OR | |
| AD Elective | 4 |
| AD 307—Electronic Visualization II | 4 |
| Elective (recommend MATH 181) | 5 |
| Total Hours | 17 |

Senior Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| AD 405—Smart Art: Physical Computing | 4 |
| AD 407—Virtual Reality I | 4 |
| AH Major | 3 |
| AD Elective | 4 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| AD 408—Virtual Reality II | 4 |
| AD 409—Electronic Visualization: Senior Project | 4 |
| AD 415—Design Colloquium | 4 |
| AH Major | 3 |
| Total Hours | 15 |

BFA in Graphic Design

To earn a Bachelor of Fine Arts in Graphic Design degree from UIC, students need to complete University, college, and school degree requirements. The School of Art and Design degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies. A portfolio review is required prior to acceptance as a major in the Graphic Design curriculum.

Degree Requirements—Graphic Design

| BFA in Graphic Design Degree Requirements | Hours |
|--|------------|
| First-Year Program | 24 |
| General Education and Foundation Courses | 33 |
| Graphic Design Major Requirements | 66 |
| Electives outside the School of Art and Design | 11 |
| Total Hours—BFA in Graphic Design | 134 |

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

See previous section *General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs* for a list of courses to meet this requirement.

Graphic Design Major Requirements

| Courses | Hours |
|---|-----------|
| AD 205—Introduction to Computer Graphics | 4 |
| AD 210—Graphic Design II | 4 |
| AD 211—Graphic Design III | 4 |
| AD 219—Typography I | 4 |
| AD 314—Graphic Design IV | 4 |
| AD 315—Graphic Design V | 4 |
| AD 317—Digital Media in Graphic Design | 4 |
| AD 411—Graphic Design Professional Practice | 4 |
| AD 412—Graphic Design Thesis | 4 |
| AD 415—Design Colloquium | 4 |
| AD 209—Color Theory | 4 |
| One of the following courses: | 4 |
| AD 267—Methods and Techniques of Digital Photography (4) | |
| AD 268—Methods and Techniques of Analog Photography (4) | |
| AD 274—Motion Graphics (4) | |
| AH 235—History of Design I: 1760–1925 | 3 |
| AH 236—History of Design II: 1925 to the Present | 3 |
| AD electives chosen from any area within the School of Art and Design | 12 |
| Total hours—Graphic Design Major Requirements | 66 |

Electives outside the School of Art and Design

| Courses | Hours |
|---|-----------|
| Total Hours—Electives outside the School of Art and Design | 11 |

Sample Course Schedule—Graphic Design

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

Sophomore Year

| Fall Semester | Hours |
|--|-----------|
| AH 110—Art History I | 4 |
| Elective | |
| OR | |
| AD 219—Typography I | 4 |
| AD 210—Graphic Design II | 4 |
| AD 205—Introduction to Computer Graphics | |
| OR | |
| AD 209—Color Theory | 4 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|-----------|
| AH 111—Art History II | 4 |
| Elective | |
| OR | |
| AD 219—Typography I | 4 |
| AD 211—Graphic Design III | 4 |
| AD 205—Introduction to Computer Graphics | |
| OR | |
| AD 209—Color Theory | 4 |
| Total Hours | 16 |

Junior Year

| Fall Semester | Hours |
|--|--------------|
| AD 314—Graphic Design IV | 4 |
| AD 260—Photography II | |
| OR | |
| AD 317—Digital Media | 4 |
| AH 235—History of Design I: 1760–1925 | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Total Hours | 17 |
| Spring Semester | Hours |
| AD 315—Graphic Design V | 4 |
| AD 260—Photography II | |
| OR | |
| AD 317—Digital Media | 4 |
| AH 236—History of Design II: 1925 to the Present | 3 |
| General Education Core course | 5 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---|--------------|
| AD 411—Graphic Design Professional Practice | 4 |
| Elective | 3 |
| AD Elective | 4 |
| AD Elective | 4 |
| General Education Core course | 3 |
| Total Hours | 18 |
| Spring Semester | Hours |
| AD 412—Graphic Design Thesis | 4 |
| AD 415—Design Colloquium | 4 |
| AD Elective | 4 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 18 |

BFA in Industrial Design

To earn a Bachelor of Fine Arts in Industrial Design degree from UIC, students need to complete University, college, and school degree requirements. The School of Art and Design degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies. A portfolio review is required prior to acceptance as a major in the Industrial Design curriculum.

Degree Requirements—Industrial Design

| BFA in Industrial Design Degree Requirements | Hours |
|---|--------------|
| First-Year Program | 24 |
| General Education Requirements | 33 |
| Industrial Design Major Requirements | 66 |
| Electives outside the School of Art and Design | 11 |
| Total Hours—BFA in Industrial Design | 134 |

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

See previous section *General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs* for a list of courses to meet this requirement.

Industrial Design Major Requirements

| Courses | Hours |
|---|--------------|
| AD 205—Introduction to Computer Graphics | 4 |
| AD 220—Industrial Design II | 4 |
| AD 221—Industrial Design III | 4 |
| AD 223—Drawing for Designers | 4 |
| AD 320—Industrial Design IV | 4 |
| AD 321—Industrial Design V | 4 |
| AD 322—Interactive Product Design I | 4 |
| AD 326—Materials and Methods | 4 |
| AD 415—Design Colloquium | 4 |
| AD 420—Interdisciplinary Product Design I | 4 |
| AD 421—Interdisciplinary Product Design II | 4 |
| AD 422—Interactive Product Design II | 4 |
| AD 423—Industrial Design Thesis | 4 |
| AH 235—History of Design I: 1760–1925 | 3 |
| AH 236—History of Design II: 1925 to the Present | 3 |
| AD 425—Design Visualization | |
| OR | |
| AD Elective | 8 |
| Total hours—Industrial Design Major Requirements | 66 |

Electives outside the School of Art and Design

| Courses | Hours |
|---|--------------|
| Total Hours—Electives outside the School of Art and Design | 11 |

Sample Course Schedule—Industrial Design**Freshman Year**

| Fall Semester | Hours |
|---|--------------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 15 |
| Spring Semester | Hours |
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

Sophomore Year

| Fall Semester | Hours |
|--|-----------|
| AD 220—Industrial Design II | 4 |
| AH 110—Art History I | 4 |
| AD 223—Drawing for Designers | 4 |
| AD 205—Introduction to Computer Graphics | 4 |
| Total Hours | 16 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| AD 221—Industrial Design III | 4 |
| AH 111—Art History II | 4 |
| AD Elective | 4 |
| Elective | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

Junior Year

| Fall Semester | Hours |
|---------------------------------------|-----------|
| AD 320—Industrial Design IV | 4 |
| AD 326—Materials and Methods | 4 |
| AH 235—History of Design I: 1760–1925 | 3 |
| General Education Core course | 5 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| AD 321—Industrial Design V | 4 |
| AH 236—History of Design II: 1925 to the Present | 3 |
| AD 322—Interactive Product Design I | 4 |
| Elective | 4 |
| General Education Core course | 3 |
| Total Hours | 18 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| AD 420—Interdisciplinary Product Design I | 4 |
| AD 422—Interactive Product Design II | 4 |
| Elective | 3 |
| Elective | 3 |
| General Education Core course | 3 |
| Total Hours | 17 |

| Spring Semester | Hours |
|--|-----------|
| AD 421—Interdisciplinary Product Design II | 4 |
| AD 423—Industrial Design Thesis | 4 |
| AD 415—Design Colloquium | 4 |
| AD 425—Design Visualization | |
| OR | |
| AD Elective | 4 |
| Total Hours | 16 |

BFA in Moving Image

To earn a Bachelor of Fine Arts in Moving Image degree from UIC, students need to complete University, college, and school degree requirements. The Moving Image degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies. A portfolio review is required prior to acceptance as a major in the Moving Image curriculum.

Degree Requirements—Moving Image

| BFA in Moving Image Degree Requirements | Hours |
|--|------------|
| First-Year Program | 24 |
| General Education and Foundation Courses | 33 |
| Moving Image Major Requirements | 62 |
| Electives outside the School of Art and Design | 11 |
| Total Hours—BFA in Moving Image | 130 |

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

See previous section *General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs* for a list of courses to meet this requirement.

Moving Image Major Requirements

| Courses | Hours |
|--------------------------|-------|
| AD 278—Moving Image I | 4 |
| AD 362—Documentary Media | 4 |
| AD 378—Moving Image II | 4 |

Two courses chosen in consultation with the student's advisor from the following:

| | |
|--|-----------|
| AD 271—16mm Film Production I (4) | 8 |
| AD 274—Motion Graphics I (4) | |
| AD 275—Writing for Moving Image (4) | |
| AD 276—Audio (4) | |
| AD 371—16mm Film Production II (4) | |
| OR | |
| AD 374—Motion Graphics II (4) | |
| AD 290—Interdisciplinary Seminar I | 4 |
| AD 391—Interdisciplinary Seminar II | 4 |
| AD 462—Advanced Art/Studio Critique | 6 |
| AD 463—Art/Studio Thesis | 6 |
| AD electives chosen in consultation with the student's advisor | 16 |
| AH 232—History of Film I: 1890 to World War II | 3 |
| AH 233—History of Film II: World War II to the Present | 3 |
| Total Hours—Moving Image Major Requirements | 62 |

Electives outside the School of Art and Design

| Courses | Hours |
|---|-----------|
| Total Hours—Electives outside the School of Art and Design | 11 |

Sample Course Schedule—Moving Image**Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|------------------------------------|-----------|
| AH 110—Art History I | 4 |
| AD 290—Interdisciplinary Seminar I | 4 |
| AD 271—16mm Film Production I | |
| OR | |
| AD 274—Motion Graphics I | |
| OR | |
| AD 278—Moving Image I | 4 |
| Elective | 5 |
| Total Hours | 17 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| AH 111—Art History II | 4 |
| General Education Core Course | 3 |
| General Education Core Course | 3 |
| AD 278—Moving Image I | |
| OR | |
| AD 274—Motion Graphics I | 4 |
| AD Elective | 4 |
| Total Hours | 18 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| Elective | 3 |
| AH 232—History of Film I: 1890 to World War II | 3 |
| AD 275—Writing for Moving Image | 4 |
| AD 391—Interdisciplinary Seminar II | 4 |
| AD 378—Moving Image II | 4 |
| Total Hours | 18 |

| Spring Semester | Hours |
|--|-----------|
| AH 160—Trends in International Contemporary Art since 1960 | 3 |
| AH 233—History of Film II: World War II to the Present | 3 |
| AD 276—Audio | 4 |
| AD 362—Documentary Media | 4 |
| AD 371—16mm Film Production II | |
| OR | |
| AD 374—Motion Graphics II | 4 |
| Total Hours | 18 |

Senior Year

| Fall Semester | Hours |
|-------------------------------------|-----------|
| General Education Core course | 4 |
| General Education Core course | 3 |
| AD 462—Advanced Art/Studio Critique | 6 |
| AD Elective | 4 |
| Total Hours | 17 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| Elective | 3 |
| General Education Core course | 3 |
| AD 463—Art/Studio Thesis | 6 |
| AD Elective | 4 |
| Total Hours | 16 |

BFA in Photography

To earn a Bachelor of Fine Arts in Photography degree from UIC, students need to complete University, college, and school degree requirements. The Photography degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies. A portfolio review is required prior to acceptance as a major in the Photography curriculum.

Degree Requirements—Photography

| BFA in Photography Degree Requirements | Hours |
|--|------------|
| First-Year Program | 24 |
| General Education and Foundation Courses | 33 |
| Photography Major Requirements | 62 |
| Electives outside the School of Art and Design | 11 |
| Total Hours—BFA in Photography | 130 |

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

See previous section *General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs* for a list of courses to meet this requirement.

Photography Major Requirements

| Courses | Hours |
|--|-------|
| AD 261—Color Photography | 4 |
| AD 262—View Camera Photography | 4 |
| AD 267—Methods and Techniques of Digital Photography | 4 |
| AD 268—Methods and Techniques of Analog Photography | 4 |
| AD 360—Projects in Digital Media | 4 |
| AD 362—Documentary Media | 4 |
| AD 290—Interdisciplinary Seminar I | 4 |
| AD 391—Interdisciplinary Seminar II | 4 |
| AD 462—Advanced Art/Studio Critique | 6 |
| AD 463—Art/Studio Thesis | 6 |
| AD 209—Color Theory | 4 |
| AD Elective | 4 |
| AD Elective | 4 |

AH electives chosen with advisor's approval from the following (AH 230, 231, or 430 preferred):

| | |
|--|-----------|
| AH 204—Greek Art and Archaeology (3) | 6 |
| AH 230—History of Photography I—The Nineteenth Century (3) | |
| AH 231—History of Photography II—The Twentieth Century (3) | |
| AH 232—History of Film I: 1890 to World War II (3) | |
| AH 233—History of Film II: World War II to the Present (3) | |
| AH 404—Topics in Architecture, Art, and Design (3) | |
| AH 430—Contemporary Photography (3) | |
| AH 432—Topics in Film and Video (3) | |
| Total Hours—Photography Major Requirements | 62 |

Electives outside the School of Art and Design

| Courses | Hours |
|---|-----------|
| Total Hours—Electives outside the School of Art and Design | 11 |

Sample Course Schedule—Photography**Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| AD 102—Drawing I <i>OR</i> | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I <i>OR</i> | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I <i>OR</i> | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 15 |
| Spring Semester | Hours |
| AD 102—Drawing I <i>OR</i> | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I <i>OR</i> | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I <i>OR</i> | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|---|-----------|
| AH 110—Art History I | 4 |
| General Education Core course | 3 |
| Elective | 3 |
| AD 290—Interdisciplinary Seminar I | 4 |
| AD 267—Methods and Techniques of Digital Photography <i>OR</i> | |
| AD 268—Methods and Techniques of Analog Photography | 4 |
| Total Hours | 18 |
| Spring Semester | Hours |
| AH 160—Trends in International Contemporary Art since 1960 | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| AD 209—Color Theory | 4 |
| AD 267—Methods and Techniques of Digital Photography <i>OR</i> | |
| AD 268—Methods and Techniques of Analog Photography | 4 |
| Total Hours | 17 |

Junior Year

| Fall Semester | Hours |
|---|-----------|
| AD 391—Interdisciplinary Seminar II | 4 |
| AD 262—View Camera/Studio Lighting | 4 |
| AD 360—Advanced Projects in Digital Media | 4 |
| General Education Core course | 4 |
| Total Hours | 16 |
| Spring Semester | Hours |
| AH 111—Art History II | 4 |
| AD 261—Color Photography | 4 |
| AD 362—Documentary Media | 4 |
| Elective | 5 |
| Total Hours | 17 |

Senior Year

| Fall Semester | Hours |
|-------------------------------------|-----------|
| General Education Core course | 3 |
| AH Major | 3 |
| AD 462—Advanced Art/Studio Critique | 6 |
| AD Elective | 4 |
| Total Hours | 16 |
| Spring Semester | Hours |
| General Education Core course | 3 |
| AH Major | 3 |
| AD 463—Art/Studio Thesis | 6 |
| AD Elective | 4 |
| Total Hours | 16 |

BFA in Studio Arts—Painting and Sculpture

To earn a Bachelor of Fine Arts in Studio Arts degree from UIC, students need to complete University, college, and school degree requirements. The Studio Arts degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

Degree Requirements—Studio Arts

| BFA in Studio Arts Degree Requirements | Hours |
|--|------------|
| First-Year Program | 24 |
| General Education and Foundation Courses | 33 |
| Studio Arts Major Requirements | 62 |
| Electives outside the School of Art and Design | 11 |
| Total Hours—BFA in Studio Arts | 130 |

First-Year Program

See previous section *First-Year Program for All Art and Design Degree Programs* for a list of courses to meet this requirement.

General Education and Foundation Courses

See previous section *General Education and Foundation Courses for Electronic Visualization, Graphic Design, Industrial Design, Moving Image, Photography, and Studio Arts Degree Programs* for a list of courses to meet this requirement.

Studio Arts Major Requirements

Students may concentrate in one area (painting or sculpture) or may explore both studio disciplines.

| Courses | Hours |
|---|-----------|
| AD 203—Topics in Drawing Studio I | 4 |
| AD 209—Color Theory | 4 |
| AD 290—Interdisciplinary Seminar I | 4 |
| AD 391—Interdisciplinary Seminar II | 4 |
| AD 230—Painting I: Beginning | 4 |
| AD 251—Topics in Seriality and Replication | 4 |
| Eight hours chosen from the following (each of which may be repeated to fulfill the requirement): | 8 |
| AD 332—Topics in Painting Studio (4) | |
| AD 342—Topics in Sculpture Studio (4) | |
| AD 462—Advanced Art/Studio Critique | 6 |
| AD 463—Art/Studio Thesis | 6 |
| Six hours of AH electives at the 200- or 300-level related to the major area of concentration chosen with the approval of the advisor | 6 |
| AD Electives | 12 |
| Total Hours—Studio Arts Major Requirements | 62 |

Electives outside the School of Art and Design

| Courses | Hours |
|---|-----------|
| Total Hours—Electives outside the School of Art and Design | 11 |

Sample Course Schedule—Studio Arts**Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 15 |
| Spring Semester | Hours |
| AD 102—Drawing I | |
| OR | |
| AD 110—Graphic Design I | 4 |
| AD 120—Industrial Design I | |
| OR | |
| AD 140—Sculpture I | 4 |
| AD 160—Photography I | |
| OR | |
| AD 170—Time-Based Visual Arts | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|-------------------------------|-------|
| AH 110—Art History I | 3 |
| General Education Core course | 4 |
| Elective | 3 |

| | |
|--|-----------|
| AD 290—Interdisciplinary Seminar I | 4 |
| AD 203—Topics in Drawing Studio I | |
| OR | |
| AD 230—Painting I: Beginning | |
| OR | |
| AD 251—Topics in Seriality and Replication | 4 |
| Total Hours | 18 |

| Spring Semester | Hours |
|--|-----------|
| AH 160—Trends in International Contemporary Art since 1960 | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| AD 209—Color Theory | 4 |
| AD 203—Topics in Drawing Studio I | |
| OR | |
| AD 230—Painting I: Beginning | |
| OR | |
| AD 251—Topics in Seriality and Replication | 4 |
| Total Hours | 17 |

Junior Year

| Fall Semester | Hours |
|-------------------------------------|-----------|
| General Education Core course | 4 |
| AD 391—Interdisciplinary Seminar II | 4 |
| AD 332—Topics in Painting Studio | |
| OR | |
| AD 342—Topics in Sculpture Studio | |
| OR | |
| AD Elective | 4 |
| AD 304—Topics in Drawing Studio II | |
| OR | |
| AD Elective | 4 |
| Total Hours | 16 |

| Spring Semester | Hours |
|------------------------------------|-----------|
| Elective | 5 |
| AH 111—Art History II | 4 |
| AD 332—Topics in Painting Studio | |
| OR | |
| AD 342—Topics in Sculpture Studio | |
| OR | |
| AD Elective | 4 |
| AD 304—Topics in Drawing Studio II | |
| OR | |
| AD Elective | 4 |
| Total Hours | 17 |

Senior Year

| Fall Semester | Hours |
|-------------------------------------|-----------|
| General Education Core course | 3 |
| AH Major | 3 |
| AD 462—Advanced Art/Studio Critique | 6 |
| AD Elective | 4 |
| Total Hours | 16 |
| Spring Semester | Hours |
| General Education Core course | 3 |
| AH Major | 3 |
| AD 463—Art/Studio Thesis | 6 |
| AD Elective | 4 |
| Total Hours | 16 |

Minor in Studio Arts

Students from other disciplines who wish to minor in Studio Arts must complete a minimum of 24 semester hours distributed as follows.

| Required Courses—Studio Arts Minor | Hours |
|---|-----------|
| AD 102—Drawing I: Beginning | 4 |
| AD 140—Sculpture I: Beginning | 4 |
| AD 230—Painting I: Beginning | 4 |
| AD 251—Topics in Seriality and Replication | 4 |
| AD 290—Studio Seminar I | 4 |
| One additional course at the 200-, 300-, or 400-level chosen from the following, depending on student's area of interest | 4 |
| AD 203—Drawing II: Intermediate (4) | |
| AD 209—Color Theory (4) | |
| AD 231—Painting II: Intermediate (4) | |
| AD 241—Sculpture II: Intermediate (4) | |
| AD 252—Printmaking II: Intermediate (4) | |
| AD 304—Drawing III: Advanced (4) | |
| AD 351—Printmaking III: Advanced (4) | |
| AD 432—Painting III: Advanced (4) | |
| AD 442—Sculpture III: Advanced (4) | |
| Total Hours—Studio Arts Minor | 24 |

Cooperative Education Program

Positions are available in the cooperative education program for students with junior standing and a cumulative grade point average of at least 3.00/4.00. Portfolio review and approval of the faculty are required. Students gain valuable employment experience through parallel work placement and a full-time or part-time course of study. Program participation may lead to permanent employment opportunities following graduation.

Distinction

Distinction in Art and Design is awarded to students who obtain a grade point average of at least 3.75/4.00 in all AD courses.

DEPARTMENT OF ART HISTORY

302 Henry Hall (HH)
(312) 996-3303

<http://www.uic.edu/depts/arch/ah/>

Administration: Chairperson, Peter B. Hales
Student Services: Director of Undergraduate Studies, Robert Munman

The program in the Department of Art History introduces the student to the study of both the built environment and the various forms of art: painting, sculpture, graphics, decorative arts, and design. A large selection of courses covers all periods of history and most of the world's cultures. Various subjects and approaches are introduced: visual and stylistic analysis, criticism, iconography, historiography, and methodology. The architecture of Chicago and its suburbs and the many local museums and galleries are a living part of the general curriculum and are specific components in specialized courses.

While many art history graduates pursue graduate education toward scholarly careers in teaching and museum work, others are attracted to positions with foundations, architectural and art periodicals, or freelance research. Many students combine study in this discipline with

graduate work in other fields, such as business administration, history, and urban planning; and still others find themselves in a variety of related professions such as editorial work and arts management.

For information on the Department of Art History at UIC, see the Web page <http://www.uic.edu/depts/arch/ah>.

BA in Art History

Degree Requirements

To earn a Bachelor of Arts in Art History degree from UIC, students need to complete University, college, and department degree requirements. The Department of Art History degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

| BA in Art History Degree Requirements | Hours |
|--|------------|
| General Education and Foundation Courses | 36 |
| Foreign Language Requirement | 0–16 |
| Major Course Requirements | 36 |
| Electives | 32–48 |
| Total Hours—BA in Art History | 120 |

General Education and Foundation Courses

| Courses | Hours |
|--|-----------|
| AH 110—Art History I ^a | 4 |
| AH 111—Art History II ^a | 4 |
| Six hours of studio courses selected from among the offerings of the School of Architecture and the School of Art and Design, chosen with the approval of an advisor | 6 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Understanding the Past course ^b | 3 |
| Exploring World Cultures course ^b | 3 |
| Analyzing the Natural World course ^{bc} | 4 |
| Understanding the Individual and Society course ^b | 3 |
| Understanding U.S. Society course ^b | 3 |
| Total Hours—General Education and Foundation Courses | 36 |

^a This course is approved for the Understanding the Creative Arts General Education category.

^b Students should consult the General Education section of the catalog for a list of approved courses in this category.

^c Students who select a course worth fewer than 4 hours from the Analyzing the Natural World list will need to take an additional General Education Core course as part of their electives.

Foreign Language Requirement

Knowledge of a foreign language is required, most commonly French, German, Italian, or Spanish, and should usually be attained by the end of the junior year. The requirement may be met by taking four years of high school language courses, two years of college language courses, or by passing a proficiency examination.

| Courses | Hours |
|--|-------------|
| Four semesters of college language courses or the equivalent | 0–16 |
| Total Hours | 0–16 |

Major Course Requirements

A minimum of 36 semester hours in art history courses at the 200-, 300-, and 400-levels, of which at least two courses (6 semester hours) must be at the 400-level. The major includes the following specific requirements:

| Courses | Hours |
|---|----------------|
| AH 200—Theories and Methods in Art History | 3 |
| At least six semester hours at the 400-level,^a of which at least 3 hours must be selected from the following courses: | 6 ^a |
| AH 404—Topics in Architecture, Art, and Design (3) | |
| AH 422—Topics in the Literature of Architecture (3) | |
| AH 430—Contemporary Photography (3) | |
| AH 432—Topics in Film and Video (3) | |
| AH 434—Women and Film (3) | |
| AH 435—Topics in Modern and Contemporary Design (3) | |
| AH 441—Topics in Medieval Art and Architecture (3) | |
| AH 450—Topics in Renaissance Art (3) | |
| AH 460—Topics in Modern and Contemporary Art (3) | |
| AH 463—Topics in North American Art and Architecture (3) | |
| AH 470—Topics in Non-Western Art and Architecture (3) | |
| AH 471—Topics in Asian Art and Architecture (3) | |
| Six semester hours in courses in Western art covering material primarily before 1700 | 6 |
| Six semester hours of courses covering non-Western architecture and art | 6 |
| AH Electives | 15 |
| Total Hours—Major Course Requirements | 36 |

^a 400-level courses in non-Western art and architecture and 400-level courses in Western art and architecture covering material primarily before 1700 can count toward fulfilling both the 400-level requirement and the non-Western and pre-1700 requirements.

Electives

| Courses | Hours |
|------------------------------|--------------|
| Total Hours—Electives | 32–48 |

Sample Course Schedule—Art History**Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| AH 110—Art History I | 4 |
| Foreign language | 4 |
| General Education Core course | 3 |
| Total Hours | 14 |

| Spring Semester | Hours |
|--|-----------|
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| AH 111—Art History II | 4 |
| Foreign language | 4 |
| General Education Core course | 3 |
| Total Hours | 14 |

Sophomore Year

| Fall Semester | Hours |
|--|-----------|
| AH 200—Theories and Methods in Art History | 3 |
| Art History before 1700 | 3 |
| Foreign language | 4 |
| General Education Core course | 4 |
| Total Hours | 14 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| Art History—non-Western | 3 |
| Art History before 1700 | 3 |
| Foreign language | 4 |
| General Education Core course | 6 |
| Total Hours | 16 |

Junior Year

| Fall Semester | Hours |
|-------------------------------|-----------|
| Art History—non-Western | 3 |
| Art History Elective | 3 |
| Art History 400-level | 3 |
| General Education Core Course | 4 |
| Elective | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|-----------------------|-----------|
| Art History 400-level | 3 |
| Art History Electives | 6 |
| Electives | 6 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|----------------------|-----------|
| Art History Elective | 3 |
| Electives | 12 |
| Total Hours | 15 |

| Spring Semester | Hours |
|----------------------|-----------|
| Art History Elective | 3 |
| Electives | 12 |
| Total Hours | 15 |

Minor in Art History

A minimum of 20 semester hours in Art History courses, of which at least 10 hours must be taken at the University of Illinois at Chicago, distributed as follows:

| Required Courses | Hours |
|--|-----------|
| AH 110—Art History I | 4 |
| AH 111—Art History II | 4 |
| Twelve hours of AH courses at the 200-, 300-, or 400-level | 12 |
| Total Hours—Art History Minor | 20 |

Except for AH 110 and 111, courses taken to fulfill the requirements in the student's major may not be counted towards the minor. A minimum grade point average of 2.25/4.00 is required for the minor.

Departmental Distinction

To be eligible for Departmental Distinction, a student must have done the following:

1. Attended UIC for at least three semesters.
2. Attained a university cumulative GPA of 3.50/4.00.
3. Completed 21 semester hours at UIC in courses required for the major.
4. Attained a GPA of 3.75/4.00 in courses in Art History.
5. Written a thesis that either expands work represented in a seminar or which grows out of an AH 492—Readings in Art and Architecture History course.

The Department of Art History's Thesis Requirements are as follows:

1. Applicants for graduation with Distinction must take AH 490—Honors Thesis for three hours of credit.
2. Students must enroll in AH 490 in their penultimate semester of course work.
3. The completed thesis must be acceptable to a committee of two faculty members from the Department of Art History.
4. The grading of the thesis and the grade in the course is either Satisfactory or Unsatisfactory. Students must receive a grade of Satisfactory in order to graduate with Distinction.
5. Completion of AH 490 must be in addition to the 36 semester hours required for the major.

DEPARTMENT OF PERFORMING ARTS

L017/L018 Education, Performing Arts,
and Social Work Building (EPASW)
(312) 996-2977

<http://www.uic.edu/depts/adpa/>

Administration: Chairperson, Michael J. Anderson

The Department of Performing Arts offers programs leading to the Bachelor of Arts in Music, the Bachelor of Arts in Theatre, and the Bachelor of Fine Arts in Performance.

BA in Music

Because the music profession is so diverse, the major curriculum at the University of Illinois at Chicago emphasizes skills and knowledge that are fundamental to the entire discipline: music theory, music history, performance, aural and keyboard training, orchestration, composition, conducting, and ensemble participation. Music study at UIC includes two years of work in theory, aural skills, and piano, five semesters of history and literature, and courses in counterpoint and analysis. Majors should also plan on at least two years of participation in one of the program's performing organizations, which include concert band, jazz ensemble, and three choral groups.

For those who qualify for the performance track, the program offers opportunities for private study in piano, organ, voice, and orchestral instruments with some of Chicago's most outstanding artist-teachers.

Many of the program's graduates have gone on to pursue advanced degrees in music. Others have found employment as performers, teachers, or composers in a wide variety of settings. A minimum of 120 semester hours is required for graduation. Students choose the Basic Concentration, the Performance Concentration, or the Jazz Studies Concentration.

General Education Requirements for Basic, Performance, and Jazz Studies Concentrations

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Analyzing the Natural World course ^a | 3–5 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Past course ^a | 3 |

Understanding U.S. Society course^a 3

Additional General Education Core courses from any category^{ab} 4–6^b

Total Hours—General Education Requirements^c 24

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b Students in the Basic, Performance, and Jazz Studies Concentrations take two additional courses from any General Education categories for a total of 4–6 hours to reach the required 24 hours in the General Education Core.

^c The Understanding the Creative Arts and Exploring World Cultures General Education requirements are met by courses within the major.

Degree Requirements—Basic Concentration

To earn a Bachelor of Arts in Music—Basic Concentration degree from UIC, students need to complete University, college, and department degree requirements. The Department of Performing Arts degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

BA in Music—Basic Concentration

| Degree Requirements | Hours |
|--|------------|
| General Education Requirements | 24 |
| Major Course Requirements | 58–66 |
| Electives | 30–38 |
| Total Hours—BA in Music—Basic Concentration | 120 |

General Education Requirements

See previous section *General Education Requirements for Basic, Performance, and Jazz Studies Concentrations* for a list of courses to meet this requirement.

Basic Concentration Major Course Requirements

For the Basic Concentration, 58–66 semester hours distributed as follows:

| Courses | Hours |
|---|-------|
| MUS 101—Music Theory I | 3 |
| MUS 102—Music Theory II | 3 |
| MUS 103—Ear Training I | 1 |
| MUS 104—Ear Training II | 1 |
| MUS 110—Convocation/Recital ^a | 0 |
| MUS 201—Theory of Music III | 3 |
| MUS 202—Theory of Music IV | 3 |
| MUS 203—Ear Training III | 1 |
| MUS 204—Ear Training IV | 1 |
| MUS 170—Keyboard Skills I | 2 |
| MUS 171—Keyboard Skills II | 2 |
| MUS 270—Keyboard Skills III | 2 |
| MUS 271—Keyboard Skills IV | 2 |
| MUS 230—Music History I | 3 |
| MUS 231—Music History II | 3 |
| MUS 232—Music History III | 3 |
| MUS 300—Counterpoint | 3 |
| MUS 301—Analytic Techniques | 3 |
| MUS 227—Music Cultures of the World ^{bc} | 3 |

Six hours of music electives chosen from the following:

| | |
|---|---|
| MUS 113—Art Song (3) ^b | 6 |
| MUS 114—Jazz History (3) ^b | |
| MUS 115—Opera (3) ^b | |
| MUS 117—Music for Symphony Orchestra (3) ^b | |
| MUS 119—Music for the Piano (3) ^b | |
| | |

Six hours of music electives chosen from the following: 6

| | |
|--|--|
| MUS 302—Composition I (3) | |
| MUS 303—Composition II (3) | |
| MUS 304—Conducting (3) | |
| MUS 306—Orchestration and Arranging I (3) | |
| MUS 307—Orchestration and Arranging II (3) | |

Four hours of music^d chosen from the following: 4

| | |
|-------------------------------------|--|
| MUS 151—Concert Band (1) | |
| MUS 152—Instrumental Ensembles (1) | |
| MUS 153—University Choir (1) | |
| MUS 154—Chamber Choir (1) | |
| MUS 155—Women's Choral Ensemble (1) | |
| MUS 157—String Ensemble (1) | |
| MUS 159—Jazz Ensemble (1) | |

Foreign language^e 0–8**Total Hours—Basic Concentration****Major Course Requirements 58–66**^a Students must register for MUS 110 for four terms.^b This course is approved for the Understanding the Creative Arts General Education category.^c This course is approved for the Exploring World Cultures General Education category.^d No more than one hour of credit earned in any term may apply towards this four-hour requirement.^e Usually one year of French, German, or Italian at the college level. With consent of the department, students may substitute other languages. Two years of foreign language study is strongly recommended.**Electives**

| Courses | Hours |
|------------------------------|--------------|
| Total Hours—Electives | 30–38 |

Sample Course Schedule—Basic Concentration**Freshman Year**

| Fall Semester | Hours |
|---|-----------|
| MUS 101—Music Theory I | 3 |
| MUS 103—Ear Training I | 1 |
| MUS 110—Convocation | 0 |
| MUS 170—Keyboard Skills I | 2 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Foreign Language | 4 |
| Electives | 2 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| MUS 102—Music Theory II | 3 |
| MUS 104—Ear Training II | 1 |
| MUS 110—Convocation | 0 |
| MUS 171—Keyboard Skills II | 2 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign Language | 4 |
| Electives | 2 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|-------------------------------|-----------|
| MUS 110—Convocation | 0 |
| MUS 201—Music Theory III | 3 |
| MUS 203—Ear Training III | 1 |
| MUS 270—Keyboard Skills III | 2 |
| General Education Core course | 5 |
| Elective | 4 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| MUS 110—Convocation | 0 |
| MUS 202—Music Theory IV | 3 |
| MUS 204—Ear Training IV | 1 |
| MUS 271—Keyboard Skills IV | 2 |
| MUS 230—Music History I | 3 |
| Art Song, Jazz, Opera, Music for Symphony Orchestra, or Music for the Piano (MUS 113, 114, 115, 117, or 119) | 3 |
| Ensemble (MUS 151, 152, 153, 154, 155, 157, or 159) | 1 |
| Elective | 2 |
| Total Hours | 15 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| MUS 231—Music History II | 3 |
| MUS 300—Counterpoint | 3 |
| One additional course chosen from MUS 113, 114, 115, 117, or 119 | 3 |
| Ensemble (see above) | 1 |
| Composition, Conducting, or Orchestration (MUS 302, 304, or 306) | 3 |
| Elective | 2 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| MUS 232—Music History III | 3 |
| MUS 301—Analytic Techniques | 3 |
| Ensemble (see above) | 1 |
| One additional course chosen from Composition, Conducting, or Orchestration | 3 |
| Electives | 5 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|-------------------------------------|-----------|
| General Education Core course | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Ensemble (see above) | 1 |
| MUS 227—Music Cultures of the World | 3 |
| Electives | 2 |
| Total Hours | 15 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| General Education Core course | 3 |
| General Education Core course | 3 |
| Electives | 9 |
| Total Hours | 15 |

Degree Requirements—Performance Concentration

To earn a Bachelor of Arts in Music—Performance Concentration degree from UIC, students need to complete University, college, and department degree requirements. The Department of Performing Arts degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

| BA in Music—Performance Concentration Degree Requirements | Hours |
|---|------------|
| General Education Requirements | 24 |
| Major Course Requirements | 72–74 |
| Electives | 22–24 |
| Total Hours—BA in Music—Performance Concentration | 120 |

General Education Requirements

See previous section *General Education Requirements for Basic, Performance, and Jazz Studies Concentrations* for a list of courses to meet this requirement.

Performance Concentration Major Course Requirements

For the Performance Concentration, 72–74 semester hours distributed as follows:

| Courses | Hours |
|--|-------|
| MUS 101—Music Theory I | 3 |
| MUS 102—Music Theory II | 3 |
| MUS 103—Ear Training I | 1 |
| MUS 104—Ear Training II | 1 |
| MUS 110—Convocation/Recital ^a | 0 |
| MUS 201—Theory of Music III | 3 |
| MUS 202—Theory of Music IV | 3 |
| MUS 203—Ear Training III | 1 |
| MUS 204—Ear Training IV | 1 |
| MUS 170—Keyboard Skills I | 2 |
| MUS 171—Keyboard Skills II | 2 |
| MUS 270—Keyboard Skills III | 2 |
| MUS 271—Keyboard Skills IV | 2 |
| MUS 230—Music History I | 3 |
| MUS 231—Music History II | 3 |
| MUS 232—Music History III | 3 |
| MUS 300—Counterpoint | 3 |
| MUS 301—Analytic Techniques | 3 |
| MUS 111—Master Class in Performance ^b | 0 |
| MUS 227—Music Cultures of the World ^{c,d} | 3 |

| | |
|--|----------|
| Six hours of music electives chosen from the following: | 6 |
| MUS 113—Art Song (3) ^c | |
| MUS 114—Jazz History (3) ^c | |
| MUS 115—Opera (3) ^c | |
| MUS 117—Music for Symphony Orchestra (3) ^c | |
| MUS 119—Music for the Piano (3) ^c | |

| | |
|--|----------|
| Six hours of music electives chosen from the following: | 6 |
| MUS 302—Composition I (3) | |
| MUS 303—Composition II (3) | |
| MUS 304—Conducting (3) | |
| MUS 306—Orchestration and Arranging I (3) | |
| MUS 307—Orchestration and Arranging II (3) | |

| | |
|--|------------|
| Two to four hours of music^e chosen from the following: | 2–4 |
| MUS 151—Concert Band (1) | |
| MUS 153—University Choir (1) | |
| MUS 157—String Ensemble (1) | |
| MUS 159—Jazz Ensemble (1) | |

| | |
|--|----------|
| Two hours of music^e chosen from the following: | 2 |
| MUS 152—Instrumental Ensembles (1) | |
| MUS 154—Chamber Choir (1) | |
| MUS 155—Women's Choral Ensemble (1) | |
| MUS 160—Small Jazz Ensemble (1) | |

| | |
|---|----------|
| Eight hours chosen from the following: | 8 |
| MUS 180—Private Instrumental Lessons (2) ^f | |
| MUS 182—Private Voice Lessons (2) ^f | |

| | |
|--|----------|
| Six hours chosen from the following: | 8 |
| MUS 280—Advanced Private Instrumental Lessons (3) ^g | |
| MUS 282—Advanced Private Voice Lessons (3) ^g | |

| | |
|--|--------------|
| Total Hours—Performance Concentration Major Course Requirements | 72–74 |
|--|--------------|

^a Students must register for MUS 110 for four terms.

^b Students must register for MUS 111 for four terms and perform in one master class in two of those terms.

^c This course is approved for the Understanding the Creative Arts General Education category.

^d This course is approved for the Exploring World Cultures General Education category.

^e Vocalists must choose four hours of 153 and two hours of 154 or 155; wind and percussion students must choose four hours between 151 and 159, and two hours between 152 and 160; piano, classical guitar, and organ students must complete two hours from 152, and two hours of a large ensemble; string students must choose four hours of 157 and two hours of 152.

^f Students must register for MUS 180 or 182 for at least four terms. Both courses require juries or half-recitals; a minimum grade of B is required to remain in the concentration.

^g Students must register for MUS 280 or 282 for two terms. MUS 280 requires one full recital; and MUS 282 requires one jury and one full recital. A minimum grade of B in the first term is required to remain in the concentration.

Electives

| Courses | Hours |
|------------------------------|--------------|
| Total Hours—Electives | 22–24 |

Sample Course Schedule—Performance Concentration

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| MUS 180—Private Instrumental Lessons | 2 |
| MUS 101—Music Theory I | 3 |
| MUS 103—Ear Training I | 1 |
| Ensemble (MUS 151, 152, 153, 154, 155, 157, or 159) | 1 |
| MUS 110—Convocation | 0 |
| MUS 170—Keyboard Skills I | 2 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| MUS 180—Private Instrumental Lessons | 2 |
| MUS 102—Music Theory II | 3 |
| MUS 104—Ear Training II | 1 |
| MUS 110—Convocation | 0 |
| Ensemble (see above) | 1 |
| MUS 171—Keyboard Skills II | 2 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| MUS 180—Private Instrumental Lessons | 2 |
| MUS 110—Convocation | 0 |
| MUS 201—Music Theory III | 3 |
| MUS 203—Ear Training III | 1 |
| MUS 270—Keyboard Skills III | 2 |
| General Education Core course | 5 |
| Elective | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--------------------------------------|-----------|
| MUS 180—Private Instrumental Lessons | 2 |
| MUS 110—Convocation | 0 |
| MUS 202—Music Theory IV | 3 |
| MUS 204—Ear Training IV | 1 |
| MUS 271—Keyboard Skills IV | 2 |
| MUS 230—Music History I | 3 |
| Ensemble (see above) | 1 |
| Elective | 3 |
| Total Hours | 15 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| MUS 111—Master Class in Performance | 0 |
| MUS 180—Private Instrumental Lessons | 2 |
| MUS 231—Music History II | 3 |
| MUS 300—Counterpoint | 3 |
| One course chosen from MUS 113, 114, 115, 117, or 119 | 3 |
| Ensemble (see above) | 1 |
| Composition, Conducting, or Orchestration (MUS 302, 304, or 306) | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| MUS 111—Master Class in Performance | 0 |
| MUS 180—Private Instrumental Lessons | 2 |
| MUS 232—Music History III | 3 |
| MUS 301—Analytic Techniques | 3 |
| Ensemble (see above) | 1 |
| One additional course chosen from Composition, Conducting, or Orchestration | 3 |
| Electives | 2 |
| Total Hours | 14 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| MUS 111—Master Class in Performance | 0 |
| MUS 280—Advanced Private Instrumental Lessons | 3 |
| General Education Core course | 3 |
| General Education Core course | 4 |
| MUS 227—Music Cultures of the World | 3 |
| Elective | 2 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| MUS 111—Master Class in Performance | 0 |
| MUS 280—Advanced Private Instrumental Lessons | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Electives | 6 |
| Total Hours | 15 |

Degree Requirements— Jazz Studies Concentration

To earn a Bachelor of Arts in Music—Jazz Studies Concentration degree from UIC, students need to complete University, college, and department degree requirements. The Department of Performing Arts degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

| BA in Music—Jazz Studies Concentration Degree Requirements | Hours |
|--|------------|
| General Education Requirements | 24 |
| Major Course Requirements | 93 |
| Electives | 3 |
| Total Hours—BA in Music— Jazz Studies Concentration | 120 |

General Education Requirements

See previous section *General Education Requirements for Basic, Performance, and Jazz Studies Concentrations* for a list of courses to meet this requirement.

Jazz Studies Concentration Major Course Requirements

For the Jazz Studies Concentration, 93 semester hours distributed as follows:

| Courses | Hours |
|--|-------|
| MUS 101—Music Theory I | 3 |
| MUS 102—Music Theory II | 3 |
| MUS 103—Ear Training I | 1 |
| MUS 104—Ear Training II | 1 |
| MUS 110—Convocation/Recital ^a | 0 |
| MUS 201—Theory of Music III | 3 |
| MUS 202—Theory of Music IV | 3 |
| MUS 203—Ear Training III | 1 |
| MUS 204—Ear Training IV | 1 |
| MUS 170—Keyboard Skills I | 2 |
| MUS 171—Keyboard Skills II | 2 |
| MUS 270—Keyboard Skills III | 2 |
| MUS 271—Keyboard Skills IV | 2 |
| MUS 230—Music History I | 3 |
| MUS 231—Music History II | 3 |

| | |
|-----------------------------------|---|
| MUS 232—Music History III | 3 |
| MUS 301—Analytic Techniques | 3 |
| MUS 114—Jazz History ^b | 3 |
| MUS 120—Jazz Improvisation I | 3 |

Choose one of the following for at least two semesters: 2–3

| | |
|--|-----|
| MUS 150—Vocal Jazz Ensemble (1) ^g | |
| MUS 159—Jazz Ensemble (1) ^g | |
| MUS 160—Small Jazz Ensemble (1) ^g (for at least two semesters) | 2–3 |
| MUS 227—Music Cultures of the World ^{bc} | 3 |
| MUS 111—Master Class in Performance ^d | 0 |
| MUS 220—Jazz Aesthetics | 3 |
| MUS 221—Jazz Improvisation II | 3 |
| MUS 222—Musical Notation/Copying | 1 |
| MUS 310—Jazz Theory and Keyboard I | 3 |
| MUS 311—Jazz Theory and Keyboard II | 3 |
| MUS 306—Orchestration and Arranging I | 3 |
| MUS 312—Jazz Arranging I | 3 |

Three hours of music electives chosen from the following: 3

| | |
|---|--|
| MUS 113—Art Song (3) ^b | |
| MUS 115—Opera (3) ^b | |
| MUS 117—Music for Symphony Orchestra (3) ^b | |
| MUS 119—Music for the Piano (3) ^b | |

Three hours of music electives chosen from the following: 3

| | |
|--|--|
| MUS 302—Composition I (3) | |
| MUS 303—Composition II (3) | |
| MUS 304—Conducting (3) | |
| MUS 307—Orchestration and Arranging II (3) | |
| MUS 313—Jazz Arranging II (3) | |

Twelve hours chosen from the following: 12

| | |
|--|--|
| MUS 180—Private Instrumental Lessons(2) ^e | |
| MUS 182—Private Voice Lessons(2) ^e | |

Six hours chosen from the following: 6

| | |
|---|--|
| MUS 280—Advanced Private Instrumental Lessons(3) ^f | |
| MUS 282—Advanced Private Voice Lessons(3) ^f | |

**Total Hours—Jazz Studies Concentration
Major Course Requirements** 93

^a Students must register for MUS 110 for four terms.

^b This course is approved for the Understanding the Creative Arts General Education category.

^c This course is approved for the Exploring World Cultures General Education category.

^d Students must register for MUS 111 for four terms and perform in one master class in two of those terms.

^e Students must register for MUS 180 or 182 for at least six terms. Both courses require juries or half-recitals; a minimum grade of B is required to remain in the concentration.

^f Students must register for MUS 280 or 282 for two terms. MUS 280 requires one full recital; and MUS 282 requires one jury and one full recital. A minimum grade of B in the first term is required to remain in the concentration.

^g MUS 150 is required for singers; MUS 159 is required for instrumentalists. Students must enroll for a total of 5 hours in a combination of MUS 150/160 (for singers) or MUS 159/160 (for instrumentalists). A minimum of two hours is required in any one of these courses.

Electives

| Courses | Hours |
|------------------------------|----------|
| Total Hours—Electives | 3 |

Sample Course Schedule— Jazz Studies Concentration

Freshman Year

| Fall Semester | Hours |
|--|-----------|
| MUS 101—Music Theory I | 3 |
| MUS 103—Ear Training I | 1 |
| MUS 110—Convocation | 0 |
| MUS 170—Keyboard Skills I | 2 |
| MUS 180—Private Instrumental Lessons OR | |
| MUS 182—Private Voice Lessons | 2 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| Total Hours | 14 |

| Spring Semester | Hours |
|--|-----------|
| MUS 102—Music Theory II | 3 |
| MUS 104—Ear Training II | 1 |
| MUS 110—Convocation | 0 |
| MUS 171—Keyboard Skills II | 2 |
| MUS 180—Private Instrumental Lessons OR | |
| MUS 182—Private Voice Lessons | 2 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 14 |

Sophomore Year

| Fall Semester | Hours |
|---|-----------|
| MUS 120—Jazz Improvisation | 3 |
| MUS 180—Private Instrumental Lessons OR | |
| MUS 182—Private Voice Lessons | 2 |
| MUS 110—Convocation | 0 |
| MUS 201—Music Theory III | 3 |
| MUS 203—Ear Training III | 1 |
| MUS 270—Keyboard Skills III | 2 |
| General Education Core course | 5 |
| Total Hours | 16 |

| Spring Semester | Hours |
|---|-----------|
| MUS 114—Jazz History | 3 |
| MUS 180—Private Instrumental Lessons OR | |
| MUS 182—Private Voice Lessons | 2 |
| MUS 110—Convocation | 0 |
| MUS 202—Music Theory IV | 3 |
| MUS 204—Ear Training IV | 1 |
| MUS 271—Keyboard Skills IV | 2 |
| MUS 230—Music History I | 3 |
| MUS 150—Vocal Jazz Ensemble OR | |
| MUS 159—Jazz Ensemble | 1 |
| Total Hours | 15 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| MUS 111—Master Class in Performance | 0 |
| MUS 180—Private Instrumental Lessons | |
| OR | |
| MUS 182—Private Voice Lessons | 2 |
| MUS 231—Music History II | 3 |
| One course chosen from MUS 113, 115, 117, or 119 | 3 |
| MUS 150—Vocal Jazz Ensemble | |
| OR | |
| MUS 159—Jazz Ensemble | 1 |
| Composition I or II, Conducting, or Orchestration II (MUS 302, 303, 304, or 307) | 3 |
| MUS 310—Jazz Theory and Keyboard I | 3 |
| Total Hours | 15 |
| Spring Semester | Hours |
| MUS 111—Master Class in Performance | 0 |
| MUS 180—Private Instrumental Lessons | |
| OR | |
| MUS 182—Private Voice Lessons | 2 |
| MUS 221—Jazz improvisation II | 3 |
| MUS 232—Music History III | 3 |
| MUS 301—Analytic Techniques | 3 |
| MUS 160—Small Jazz Ensemble | 1 |
| MUS 306—Orchestration and Arranging I | 3 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| MUS 111—Master Class in Performance | 0 |
| MUS 150—Vocal Jazz Ensemble | |
| OR | |
| MUS 159—Jazz Ensemble | 1 |
| MUS 160—Small Jazz Ensemble | 1 |
| MUS 220—Jazz Aesthetics | 3 |
| MUS 227—Music Cultures of the World | 3 |
| MUS 280—Advanced Private Instrumental Lessons | |
| OR | |
| MUS 282—Advanced Private Voice Lessons | 3 |
| General Education Core course | 4 |
| Total Hours | 15 |
| Spring Semester | Hours |
| MUS 111—Master Class in Performance | 0 |
| MUS 280—Advanced Private Instrumental Lessons | |
| OR | |
| MUS 282—Advanced Private Voice Lessons | 3 |
| MUS 311—Jazz Theory and Keyboard II | 3 |
| MUS 312—Jazz Arranging | 3 |
| MUS 222—Musical Notation and Copying | 1 |
| General Education Core course | 3 |
| Electives | 3 |
| Total Hours | 16 |

Minor in Music

| Required Courses | Hours |
|-------------------------|-------|
| MUS 101—Music Theory I | 3 |
| MUS 102—Music Theory II | 3 |
| MUS 103—Ear Training I | 1 |
| MUS 104—Ear Training II | 1 |

| | |
|---|-----------|
| MUS 170—Keyboard Skills I | 2 |
| MUS 171—Keyboard Skills II | 2 |
| MUS 230—Music History I | 3 |
| MUS 231—Music History II | 3 |
| Any three hours of music electives at the 100-level, excluding MUS 100, 107, and 156. | 3 |
| Total Hours—Minor in Music | 21 |

BA in Theatre and BFA in Performance

Both the BA and the BFA combine the study of acting, directing, and design with the study of dramatic texts in their theatrical and cultural contexts. In the BA, two concentrations are offered, the Performance Concentration and the Directing/Design Concentration.

Since theatre is studied and experienced as a present-tense event, majors must actively participate in the production program. A total of 120 semester hours is required for graduation. Some theatre courses require grades of B or higher in courses listed as prerequisites. Please check the *Course Descriptions* in the catalog for more information.

General Education Requirements for BA and BFA Programs

| Courses | Hours |
|--|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Analyzing the Natural World course ^a | 3–5 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Creative Arts | |
| OR | |
| Understanding the Past course ^b | 3 |
| Understanding U.S. Society course ^a | 3 |
| Additional General Education Core courses from any category ^a | 4–6 |
| Total Hours—General Education Requirements | 27 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b Students must take one course each from the Understanding the Past General Education category and the Understanding the Creative Arts General Education category. One of these courses may be fulfilled by a requirement within the major.

BA in Theatre**Degree Requirements—Performance Concentration and Directing/Design Concentration**

To earn a Bachelor of Arts in Theatre from UIC, students need to complete University, college, and department degree requirements. The Department of Performing Arts degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

Admission to the performance concentration is by audition, and admission to the directing/design concentration is by interview.

| BA in Theatre Degree Requirements | Hours |
|-----------------------------------|------------|
| General Education Requirements | 27 |
| Major Course Requirements | 45 |
| Electives | 48 |
| Total Hours—BA in Theatre | 120 |

General Education Requirements

See previous section *General Education Requirements for BA and BFA Programs* for a list of courses to meet this requirement.

Performance Concentration Major Course Requirements

| Courses | Hours |
|--|-----------|
| THTR 109—Introduction to Theatre ^a | 3 |
| THTR 161—Introduction to Acting I | 3 |
| THTR 210—Movement for Stage I | 3 |
| THTR 260—Voice for the Stage I | 3 |
| THTR 261—Voice for the Stage II | 3 |
| THTR 262—Acting II: Scene Study | 3 |
| THTR 263—Acting II: Adaptations | 3 |
| THTR 280—Practicum in Performance | 3 |
| THTR 444—Drama in Its Cultural Context I | 3 |
| THTR 445—Drama in Its Cultural Context II | 3 |
| THTR 452—Advanced Acting: Shakespeare | 3 |
| One course from the following: | 3 |
| THTR 470—Contemporary Performance Techniques (3) | |
| THTR 472—Investigative Collaboration (3) | |
| One course from the following: | 3 |
| THTR 423—Playwriting (3) | |
| THTR 465—Stage Direction (3) | |
| One of the following two-course sequences: | 6 |
| THTR 150—Technical Theatre (3) | |
| THTR 250—Set Design I (3) | |
| OR | |
| THTR 151—Fundamentals in Costume Construction (3) | |
| THTR 257—Costume Design I (3) | |
| Total Hours—Performance Concentration Major Course Requirements | 45 |

^a This course is approved for the Understanding the Past General Education category or the Understanding the Creative Arts General Education category.

Directing/Design Concentration Major Course Requirements

| Courses | Hours |
|---|----------|
| THTR 109—Introduction to Theatre ^a | 3 |
| THTR 161—Introduction to Acting I | 3 |
| THTR 210—Movement for Stage I | 3 |
| THTR 260—Voice for the Stage I | 3 |
| THTR 262—Acting II: Scene Study | 3 |
| THTR 423—Playwriting | 3 |
| THTR 444—Drama in Its Cultural Context I | 3 |
| THTR 445—Drama in Its Cultural Context II | 3 |
| THTR 465—Stage Direction | 3 |
| One course from the following: | 3 |
| THTR 470—Contemporary Performance Techniques (3) | |
| THTR 472—Investigative Collaboration (3) | |
| One of the following two-course sequences: | 6 |
| THTR 150—Technical Theatre (3) | |
| THTR 250—Set Design I (3) | |
| OR | |
| THTR 151—Fundamentals in Costume Construction (3) | |
| THTR 257—Costume Design I (3) | |
| One course from the following: | 3 |
| THTR 256—Lighting Design (3) | |
| THTR 259—Makeup Design (3) | |

One course from the following: 3

THTR 255—Set Design II (3)

THTR 258—Costume Design II (3)

One course from the following: 3

THTR 282—Practicum in Costuming (3)

THTR 283—Practicum in Technical Theatre (3)

Total Hours—Directing/Design Concentration Major Course Requirements 45

^a This course is approved for the Understanding the Past General Education category or the Understanding the Creative Arts General Education category.

Electives

| Courses | Hours |
|------------------------------|-----------|
| Total Hours—Electives | 48 |

Sample Course Schedule—Performance Concentration

Semesters in which required courses are offered may vary from those listed below.

* THTR 280—Practicum in Performance requires permission of instructor to register. This is given for semesters when student is cast in a mainstage production.

** General Education Core courses can be taken in any semester. Some courses carry more than 3 credit hours; thus, the total credit hours for a semester may be between 15 and 17. This is listed below only once; thereafter, General Education Core courses are listed as 3 credit hours and 15 credit hours given as the total for the semester.

Freshman Year

| Fall Semester | Hours |
|---|--------------|
| THTR 109—Introduction to Theatre | 3 |
| THTR 161—Introduction to Acting I | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course** | 3 |
| General Education Core course** | 3–5 |
| Total Hours | 15–17 |

| Spring Semester | Hours |
|--|-----------|
| THTR 210—Movement for Stage I | 3 |
| THTR 260—Voice for the Stage I | 3 |
| THTR 263—Adaptations | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|------------------------------------|-----------|
| THTR 150—Technical Theatre | |
| OR | |
| THTR 151—Costume Construction | 3 |
| THTR 261—Voice for the Stage II | 3 |
| THTR 280—Practicum in Performance* | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| THTR 262—Acting: Scene Study | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Junior Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| THTR 444—Drama in Cultural Context I | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| THTR 250—Set Design I | |
| OR | |
| THTR 257—Costume Design I | 3 |
| THTR 452—Acting: Shakespeare | 3 |
| THTR 470—Contemporary Performance Techniques | |
| OR | |
| THTR 472—Investigative Collaboration | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---------------------------------------|-----------|
| THTR 445—Drama in Cultural Context II | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--------------------------|-----------|
| THTR 423—Playwriting | |
| OR | |
| THTR 465—Stage Direction | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Sample Course Schedule— Directing/Design Concentration

Semesters in which required courses are offered may vary from those listed below.

* General Education Core courses can be taken in any semester. Some courses carry more than 3 credit hours; thus, the total credit hours for a semester may be between 15 and 17.

Freshman Year

| Fall Semester | Hours |
|---|-------|
| THTR 109—Introduction to Theatre | 3 |
| THTR 161—Introduction to Acting I | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course* | 3 |

| | |
|--------------------------------|-----------|
| General Education Core course* | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| THTR 210—Movement for Stage I | 3 |
| THTR 260—Voice for the Stage I | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|-------------------------------|-----------|
| THTR 150—Technical Theatre | |
| OR | |
| THTR 151—Costume Construction | 3 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| THTR 250—Set Design I | |
| OR | |
| THTR 257—Costume Design I | 3 |
| THTR 262—Acting: Scene Study | 3 |
| THTR 282—Practicum in Costuming | |
| OR | |
| THTR 283—Practicum in Technical Theatre | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Junior Year

| Fall Semester | Hours |
|--------------------------------------|-----------|
| THTR 255—Set Design II | |
| OR | |
| THTR 258—Costume Design II | 3 |
| THTR 256—Lighting Design | |
| OR | |
| THTR 259—Makeup Design | 3 |
| THTR 444—Drama in Cultural Context I | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| General Education Core course | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---------------------------------------|-----------|
| THTR 445—Drama in Cultural Context II | 3 |
| THTR 465—Stage Direction | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| THTR 423—Playwriting | 3 |
| THTR 470—Contemporary Performance Techniques | |
| OR | |
| THTR 472—Investigative Collaboration | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

BFA in Performance

Degree Requirements

To earn a Bachelor of Fine Arts in Performance from UIC, students need to complete University, college, and department degree requirements. The Department of Performing Arts degree requirements are outlined below. Students should consult the *College of Architecture and the Arts* section for additional degree requirements and college academic policies.

| BFA in Performance Degree Requirements | Hours |
|--|------------|
| General Education Requirements | 27 |
| Major Course Requirements | 66 |
| Electives | 27 |
| Total Hours—BA in Theatre | 120 |

General Education Requirements

See previous section *General Education Requirements for BA and BFA Programs* for a list of courses to meet this requirement.

BFA Major Course Requirements

| Courses | Hours |
|---|----------|
| THTR 109—Introduction to Theatre ^a | 3 |
| THTR 161—Introduction to Acting I | 3 |
| THTR 210—Movement for Stage I | 3 |
| THTR 260—Voice for the Stage I | 3 |
| THTR 261—Voice for the Stage II | 3 |
| THTR 263—Acting II: Adaptations | 3 |
| THTR 280—Practicum in Performance | 3 |
| THTR 310—Movement for Stage II | 3 |
| THTR 410—Movement for Stage III | 3 |
| THTR 444—Drama in Its Cultural Context I | 3 |
| THTR 445—Drama in Its Cultural Context II | 3 |
| THTR 451—Advanced Acting: American Drama | 3 |
| THTR 452—Advanced Acting: Shakespeare | 3 |
| THTR 458—Advanced Acting: Chekhov | 3 |
| THTR 459—Advanced Acting: Ensemble | 3 |
| THTR 462—Voice for the Stage III | 3 |
| THTR 465—Stage Direction | 3 |
| One of the following two-course sequences: | 6 |
| THTR 150—Technical Theatre (3) | |
| THTR 250—Set Design I (3) | |
| OR | |
| THTR 151—Fundamentals in Costume Construction (3) | |
| THTR 257—Costume Design I (3) | |
| One of the following courses: | 3 |
| THTR 255—Set Design II (3) | |
| THTR 256—Lighting Design (3) | |
| THTR 258—Costume Design II (3) | |
| THTR 259—Makeup Design (3) | |
| One of the following courses: | 3 |
| THTR 470—Contemporary Performance Techniques (3) | |

| | |
|--|-----------|
| THTR 472—Investigative Collaboration (3) | |
| THTR 475—Advanced Acting: Audition | 3 |
| Total Hours—BFA Major Course Requirements | 66 |

^a This course is approved for the *Understanding the Past General Education* category or the *Understanding the Creative Arts General Education* category.

Electives

| Courses | Hours |
|------------------------------|-----------|
| Total Hours—Electives | 27 |

Sample Course Schedule—BFA in Performance

Semesters in which required courses are offered may vary from those listed below.

- * THTR 280—Practicum in Performance, requires permission of instructor to register. This is given for semesters when student is cast in a mainstage production.
- ** General Education Core courses can be taken in any semester. Some science courses carry more than three credit hours; thus, the total credit hours for a semester may be between 15 and 17. This is listed below only once; thereafter, General Education Core courses are listed as 3 credit hours and 15 credit hours given as the total for the semester.

Freshman Year

| Fall Semester | Hours |
|---|--------------|
| THTR 109—Introduction to Theatre | 3 |
| THTR 161—Introduction to Acting I | 3 |
| THTR 210—Movement for the Stage I | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course** | 3–5 |
| Total Hours | 15–17 |

| Spring Semester | Hours |
|--|-----------|
| THTR 150—Technical Theatre | |
| OR | |
| THTR 151—Costume Construction | 3 |
| THTR 260—Voice for the Stage I | 3 |
| THTR 263—Acting: Adaptations | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Sophomore Year

| Fall Semester | Hours |
|--|-----------|
| THTR 261—Voice for the Stage II | 3 |
| THTR 310—Movement for Stage II | 3 |
| THTR 451—Advanced Acting: American Drama | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---------------------------------------|-----------|
| THTR 250—Set Design I | |
| OR | |
| THTR 257—Costume Design I | 3 |
| THTR 452—Advanced Acting: Shakespeare | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Junior Year

| Fall Semester | Hours |
|--|--------------|
| THTR 255—Set Design II | |
| OR | |
| THTR 256—Lighting Design | |
| OR | |
| THTR 258—Costume Design II | |
| OR | |
| THTR 259—Makeup Design | 3 |
| THTR 444—Drama in Its Cultural Context I | 3 |
| THTR 458—Advanced Acting: Chekhov | 3 |
| THTR 462—Voice for the Stage III | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|--------------|
| THTR 410—Movement for Stage III | 3 |
| THTR 459—Advanced Acting: Ensemble | 3 |
| THTR 470—Contemporary Performance Techniques | |
| OR | |
| THTR 472—Investigative Collaboration | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---|--------------|
| THTR 280—Practicum in Performance | 3 |
| THTR 445—Drama in Its Cultural Context II | 3 |
| THTR 465—Stage Direction | 3 |
| General Education Core course | 3 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|------------------------------------|--------------|
| THTR 475—Advanced Acting: Audition | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Total Hours | 15 |

Minor in Theatre

Students from other disciplines who want to minor in theatre must complete at least 18 hours in theatre. At least 12 of the 18 hours must be at the upper-division level.

Distinction

Distinction is based on (a) grade point average of 3.50/4.00, and (b) superior commitment to the production program.

College of Business Administration

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Academic Services: 1118 UH
Undergraduate Business Career Center: 1118 UH
Departments: Accounting, Finance, Information and
Decision Sciences, Managerial Studies (includes:
Entrepreneurship, Management, Marketing)

Introduction

The College of Business Administration is a research-based institution located in the heart of Chicago that cultivates a spirit of entrepreneurship through real-world experience. The CBA is one of the top ten comprehensive urban public business schools in the country and a market leader in undergraduate business and management education. The undergraduate program offers a diverse student body and access to rigorous programs that develop the skills necessary to become the business leaders of the future. Over 2,200 undergraduate students annually pursue majors in seven areas: accounting, entrepreneurship, finance, information and decision sciences, management, and marketing. UIC's proximity to the urban business community in Chicago affords substantial opportunities to stay connected with the pace of business issues throughout a student's educational experience.

Two unique aspects of business education at UIC are access to rigorous academic programs and the diversity of the students. The breadth and depth of the faculty and the quality of their research and scholarly work are evidenced by publications in the leading journals in their fields. The rigor of the curriculum and the faculty's research interests have led to the development of honors business courses and a leadership academy. In addition, the college has established excellence in teaching as a primary objective. Students will be joined by a group of peers whose diversity of backgrounds significantly enhances the learning experience and exchange of ideas.

In addition to course work in the major area, the curriculum includes core courses in all functional areas of business, and supporting course work in mathematics, communications, statistics, and information systems. This program allows CBA graduates go on to pursue management and leadership positions in business and nonbusiness settings, or start and own their own businesses. The undergraduate program provides students with the skills necessary for a successful career in business and is also an excellent preparation for graduate training in business, law, or any business-related discipline.

Semester Hour Requirement

The College of Business Administration minimum semester hour requirement is 120–121 semester hours for all degree programs.

| Degree Program | Department | Degree Conferred | Total Hours |
|-----------------------------------|-----------------------------------|---|-------------|
| Accounting | Accounting | BS in Accounting | 121 |
| Entrepreneurship | Managerial Studies | BS in Entrepreneurship | 120 |
| Finance | Finance | BS in Finance | 120 |
| Information and Decision Sciences | Information and Decision Sciences | BS in Information and Decision Sciences | 120 |
| Management | Managerial Studies | BS in Management | 120 |
| Marketing | Managerial Studies | BS in Marketing | 120 |

The College of Business Administration provides leadership in the creation and transmission of knowledge as one of the largest and best undergraduate business programs in the Chicago area. This outstanding education is enhanced through high quality graduate programs, rigorous and innovative theoretical and applied research, active professional development programs, and an array of research and outreach centers.

Accreditation

The College of Business Administration is accredited by AACSB International—The Association to Advance Collegiate Schools of Business. AACSB International accreditation represents the highest standard of achievement for business schools worldwide. Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review. AACSB accreditation is the hallmark of excellence in management education.

Degree Requirements

To earn a College of Business Administration degree from UIC, students need to complete University, college, and department degree requirements. General University and college degree requirements for all College of Business Administration students are outlined below. Students should consult the academic department section for major course requirements.

Semester Hour Requirement (See below)

The College of Business Administration minimum semester hour requirement is 120–121 semester hours for all degree programs.

General Course Requirements

Basic Education Requirements

Students should take English 160 and 161, Mathematics 160 and 165, and Economics 130 and 218 as early as possible, since these courses are prerequisites for most of the business core courses.

| Courses | Hours |
|--|----------------|
| Business Administration Orientation | |
| BA 100—Business Administration Orientation ^a | 1 ^a |
| English | |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts ^b | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research ^b | 3 |
| BA 200—Managerial Communication | 3 |
| Mathematics | |
| MATH 160—Finite Mathematics for Business | 5 |
| MATH 165—Calculus for Business ^c | 5 |
| Economics | |
| ECON 130—Principles of Economics for Business | 5 |

| | |
|---|-----------|
| ECON 218—Microeconomics: Theory and Business Applications | 4 |
| Advanced Quantitative Skills course | 3 |
| Total Hours | 31 |

^a BA 100 is a one-semester-hour course for incoming freshmen that is required for graduation. The one hour counts in the calculation of tuition, full- or part-time enrollment status, and financial aid eligibility. The one hour does not count towards the 120-21 hours necessary to graduate.

^b Minimum grades of C must be earned in these courses.

^c Mathematics 180 may be taken in place of Mathematics 165.

General Education Requirements

| Subject Area | Hours |
|--|-----------|
| Analyzing the Natural World course ^a | 5 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Total Hours^b | 20 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b MATH 160, MATH 165, and ECON 130 are required courses listed in the preceding Basic Education Requirements table. These courses are approved General Education Core courses and count toward the University's minimum General Education Core requirement.

Electives

Human nutrition, kinesiology, military science, and music skills courses cannot count in this category.

| Courses | Hours |
|---|-----------|
| Electives—9 hours of Electives to bring the General Course Requirements hours to a total of at least 60 | 9 |
| Total Hours | 9 |
| Total Hours—General Course Requirements | 60 |

Business Course Requirements

Business Core

| Courses | Hours |
|--|-------|
| Accounting | |
| ACTG 210—Introduction to Financial Accounting | 3 |
| ACTG 211—Introduction to Managerial Accounting | 3 |

Finance

| | |
|--|---|
| FIN 300—Introduction to Managerial Finance | 3 |
|--|---|

Information and Decision Sciences

| | |
|--|---|
| IDS 200—Introduction to Management Information Systems | 4 |
| IDS 270—Business Statistics I | 4 |
| IDS 355—Operations Management | 3 |

Management

| | |
|--|---|
| MGMT 340—Introduction to Organizations | 3 |
| MGMT 350—Business and Its External Environment | 3 |

Marketing

| | |
|------------------------------------|---|
| MKTG 360—Introduction to Marketing | 3 |
|------------------------------------|---|

Integrative Course—Competitive Strategy

Choose one of the following courses^a:

| | |
|--|-----------|
| ACTG 495, ECON 495, FIN 495, IDS 495, MGMT 495 | 4 |
| Total Hours | 33 |

^a These courses have the same prerequisites—senior standing and completion of all other Business Core courses. Students may take the integrative course in any department, not necessarily in their major.

The Major and Business Electives

| Courses | Hours |
|---|--------------|
| Choose a major from the following areas: | 27–28 |
| Accounting, Economics, Entrepreneurship, Finance, Information and Decision Sciences, Management, and Marketing. The major consists of 27–28 hours of major courses and business electives. The exact number of business electives varies by department. | |
| Total Hours | 27–28 |
| Total Hours—Business Course Requirements | 60–61 |

Other Course Requirements

Advanced Quantitative Skills

At least 3 hours must be chosen from the following list. Finance majors must take either ECON 346 or IDS 371; and IDS majors must take IDS 371.

| Approved Courses | Hours |
|-------------------------|-------|
| Economics (ECON) | |
| 346—Econometrics | 3 |

Information and Decision Sciences (IDS)

| | |
|----------------------------|---|
| 371—Business Statistics II | 3 |
|----------------------------|---|

Philosophy (PHIL)

| | |
|---|---|
| 102—Introductory Logic | 3 |
| 210—Symbolic Logic | 3 |
| 211—Inductive Logic and Decision Making | 3 |

Business Administration Orientation Requirement

All entering freshmen in the college must successfully complete BA 100—Business Administration Orientation during the fall semester. BA 100 is a one-semester-hour course required for graduation. This first-year experience course is designed to help students successfully transition from high school to a university environment. BA 100 includes an introduction to study strategies and techniques as well as an orientation to resources available at UIC. Students will be given an overview of the CBA majors and careers in business. Students will complete a group project and presentation on a career path in business. Additionally, this course provides ample opportunities to connect with other students, faculty, staff, and organizations and activities on campus.

Foreign Language Requirement

The College of Business Administration requires at least two years of a single foreign language in high school with minimum grades of C as a criterion for admission. Students who are admitted with a deficiency in this area must take two semesters of a single foreign language at the college level with minimum grades of C or prove proficiency in a foreign language.

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. Students are required to complete a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses for each General Education Core category, students should consult the General Education section of the catalog. Information on

meeting the General Education requirements for each College of Business Administration degree program is detailed in the previous section on *General Course Requirements*.

General Education Proficiencies—University Writing Requirement

A minimum grade of C in English 160 and 161 is a degree requirement. Transfer students who have taken the equivalent of English 160 and/or 161 at other institutions may only receive graduation credit for these courses if they earned minimum grades of C.

Mathematics Requirements

Business students must register for a mathematics course each semester until the required MATH 160 and MATH 165 courses are completed. After completing the required math courses, students must enroll in IDS 270. Some students may be required to take prerequisite math courses prior to enrolling in the required math courses. Credit earned for these prerequisite courses will not count toward the hours required for graduation, and the grades earned are not included in the grade point average (GPA). Students may place anywhere in this sequence: MATH 075, 090, 160, and 165. Satisfactory grades are required in MATH 075 and 090 to progress to the next math course. Please note that MATH 160 is not a prerequisite for MATH 165.

Other Requirements

Course Work Limitations

Courses that duplicate previous course work do not count toward graduation, nor do courses in which failing grades are received. Furthermore, credit earned in the following courses does not count towards graduation: Business Administration 100 and 289; English as a Second Language courses; English 070 and 071; Mathematics 075, 090, 118, 121, 140, and 141; kinesiology, human nutrition, and military science courses; and foreign language courses taken to fulfill a deficiency in the CBA foreign language additional graduation requirement. The only exception is that students may earn 3 semester hours of credit in English 070 or 071 and a waiver of English 160 if written authorization is received from the Department of English. BA 100, BA 289, ESL courses, MATH 075, MATH 090, and Academic Skills Program courses do not carry academic credit and will not be used in computing the grade point average, but will be used for the purpose of determining full- or part-time status, and for financial aid eligibility.

Grade Point Average (GPA) Requirement

In addition to meeting all University requirements for the degree, students must earn a minimum cumulative GPA of 2.00/4.00 in each of the following to qualify for graduation: (1) all courses taken at the University of Illinois at Chicago; (2) all courses (UIC and transfer) counted toward the degree; and (3) in the major.

Graduation Declaration/Filing to Graduate/Degree Completion

The College of Business Administration is dedicated to assisting students with the achievement of both their academic and professional goals in a timely manner. One semester before graduation, CBA students must meet with their academic advisor to complete a graduation check. When students register for their final semester of courses, they will also declare their intent to graduate online using *Student Self-Service*. The deadline to declare graduation in the *Student Self-Service* system is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to complete

these two steps may delay the awarding of the degree to the next semester. A final review of the records will be made following the close of the term.

Students completing all degree requirements for their declared major will need permission from their college to enroll in additional undergraduate courses. See online catalog <http://www.uic.edu/ucat/catalog/GR.shtml> for a complete description of this policy.

Enrollment Residence Requirement

The following college enrollment residence requirements apply to all CBA students:

- Once a student has reached junior standing (earned 60 semester hours of college credit), he/she must earn at least 60 additional semester hours at an accredited four-year institution. The college and department enrollment residence requirements must also be fulfilled.
- The last 30 hours of course work must be taken in enrollment residence at UIC. Furthermore, at least 30 of the 60 semester hours in the *Business Course Requirements* section of the curriculum must be taken in enrollment residence at UIC.
- At least two-thirds of the credit required for a departmental major must be completed at UIC.
- Concurrent attendance at the University of Illinois at Chicago and another collegiate institution or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement for graduation.

College Policies

Academic Load

To be considered a full-time student during the fall and spring semesters, a student must be registered for a minimum of 12 semester hours. For Summer Session 1 (Four-Week) and Summer Session 2 (Eight-Week), UIC considers a total aggregate of 6 semester hours as the minimum number necessary to constitute full-time enrollment. A maximum of 18 semester hours may be taken in a semester (12 hours between the two summer sessions). To complete a CBA degree within four years, a student must take an average course load of 15–16 hours per semester. Students requiring prerequisite math or English courses should plan to attend summer school to ensure timely graduation and meet this goal. For each hour of registered course work, students should expect to complete three hours of homework, studying, and reading.

Academic Probation and Dismissal Rules

Students' academic status will be based on their semester or cumulative grade point average. Students are in "good standing," "on probation," or "dismissed." Students can check their academic status after each semester on *UIC Web for Student*. Students who are on academic probation or who have been dismissed are informed of their status by letter from the college following the end of the semester.

Probation Rules

Students will be placed on academic probation in any term in which they earn either a cumulative or semester grade point average of less than 2.00/4.00. They will then be expected to earn at least a 2.00/4.00 semester grade point average and to raise their cumulative grade point average to a 2.00/4.00 to achieve good academic standing.

Academic probation at UIC can only be removed by successfully completing additional course work at UIC. Probation is broken down as follows.

The following rules are applied to determine the academic status of a student on probation:

1. A student in good academic standing is placed on semester probation for any semester in which less than a 2.00/4.00 GPA is earned, but the UIC Cumulative GPA is 2.00 or higher (Warning Status).
2. A student in good academic standing is placed on academic probation in any semester in which the UIC Cumulative GPA falls below a 2.00/4.00.
3. A student currently on academic probation is continued on academic probation (unless dismissed from the University) until both the cumulative GPA and the UIC GPA are raised to 2.00/4.00.

CBA Undergraduate Programs determines the conditions of probation. In addition to specifying the grade point average, the college may require the completion of specific courses, limit the number of hours for which students register, and exclude students from taking certain courses while on probation.

All students on probation are required to adhere to the following terms of probation (academic restrictions). Failure to do so will result in registration holds and possible academic dismissal.

1. Students must meet with their academic advisor to complete an academic contract. The contract will include any requirements and/or restrictions for the student's next semester.
2. Students must schedule an appointment with their CBA academic advisor two additional times during the semester to discuss their academic progress for the term.
3. Students cannot register for more than 12 hours of course work for the semester (6 hours during the summer term).
4. Students must seek tutoring in their weak subject areas, i.e. math, accounting, economics, statistics, etc. Tutoring is available in the College of Business Administration Undergraduate Programs Office, during the fall and spring semesters, the Honors College, the Mathematical Science Learning Center, as well as many other support programs on campus.

Dismissal Rules

1. If a student is on academic probation, the student may be dismissed in any term in which he/she fails to meet the grade point average required by the probation status and in which the cumulative grade point average in courses taken at UIC is less than 2.00/4.00.
2. If a student is on academic probation, the student may be dismissed in any term in which he/she fails to meet the grade point average required by

the probation and in which the combined transfer and UIC grade point average is less than 2.00/4.00.

3. If the student fails to make any significant progress toward a degree, the student may be dismissed from the college, and is therefore ineligible to enroll at the University in subsequent semesters.
4. The student may be dismissed in any term in which he or she fails to comply with the conditions set by the College of Business Administration.

Change of Course Schedule—Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program.

To avoid difficulty, CBA suggests that students do the following:

- Meet with a CBA academic advisor each semester to plan a manageable course schedule and stay on track for graduation.
- Get feedback from their instructors before the drop deadline to determine if they are succeeding in their classes.
- Give careful consideration before using this option early in their academic career.

Change of Major

Students are encouraged to discuss their options for majors within the College of Business Administration with faculty, career advisors, and academic advisors. Changing a major is done by making an appointment with an academic advisor.

Class Attendance

CBA's expectation is that students will attend all classes because it is necessary for achieving academic success. Each instructor may establish specific attendance requirements for his/her course. The instructor is responsible for making

| PROBATION LEVEL | CONDITIONS | CONSEQUENCES | REMEDY |
|--------------------|---|--|---|
| Semester Probation | Semester GPA is below 2.00/4.00, but the UIC cumulative GPA is 2.00 or higher | Warning status is assigned. | Must meet with an advisor to discuss academic difficulties and seek tutoring, if necessary. |
| Academic Probation | UIC cumulative GPA is below 2.00/4.00 | Academic restrictions enforced until required GPA level is achieved. | Must meet with an advisor to discuss their academic progress, sign an academic contract, and seek tutoring in difficult subjects. Students are required to meet with an academic advisor three times each semester until they are no longer on probation. |
| Dismissed | UIC cumulative GPA is considerably below 2.00/4.00 | Student is dismissed from the University. | Student will not be allowed to register for classes at UIC. |

the attendance policy clear to the students. An instructor cannot drop a student from a course due to nonattendance. It is the student's responsibility to make certain that all courses are added and dropped properly by the published deadlines.

Closed Courses

Courses close because a maximum enrollment capacity is placed on each course. This limit cannot be exceeded due to safety and environmental regulations. It is necessary that students register at their assigned time to ensure the preferred course schedule.

College Level Examination Program (CLEP)

The College of Business Administration accepts a maximum of 30 semester hours of CLEP (College Level Examination Program) credit toward the degree requirements. Examinations may provide credit if approved by the college. CLEP credit will be awarded toward the CBA degree requirements based on the description and content of the exam, permission from the college, and the score earned on the exam. A minimum score of 65 is required. The CBA does not accept CLEP for English composition or foreign language credit. CLEP exams are regularly administered on campus by the Office of Testing Services at (312) 996-0919.

Course Prerequisites

Students must meet all course prerequisites. The most up-to-date prerequisites for courses are listed in the current semester's *Schedule of Classes*. Prerequisites are put on courses to ensure students' success in the course and to maximize understanding and comprehension of the academic material. Students who do not meet published prerequisites may be dropped from the course.

Credit/No Credit Option

Students may elect to take courses on the credit/no credit option under the following conditions:

1. Students must be on clear academic status, not on academic probation;
2. Students must be enrolled full-time at UIC;
3. Only one course per semester may be taken on the credit/no credit option;
4. A maximum of 21 semester hours of credit/no credit course work can be earned at UIC. Courses that may not be taken on the credit/no credit option include:
 - English 160, 161, and Business Administration 200;
 - Economics 130, 218;
 - Mathematics 160, 165;
 - Business Core courses;
 - Courses taken to satisfy a requirement of a particular major, i.e., the advanced quantitative skills requirement for Finance, and Information and Decision Sciences majors;
 - Major business courses;
 - Business elective courses;
 - Any accounting course if the student is majoring in Accounting.

To elect this option, students must complete a credit/no credit form in the CBA Undergraduate Programs office. They must be submitted to 1118 UH by 4:15 p.m. (the close of business) on the tenth day of instruction (or the first Friday of Summer Session 1 or the second Friday of Summer Session 2).

Double Major, Double Degrees, and Second Bachelor's Degree

Double Major

This option is not available in the College of Business Administration.

Double Degrees

This option is not available in the College of Business Administration.

Second Bachelor's Degree

Applicants who have already earned a bachelor's degree must apply to the graduate program <http://www.uic.edu/cba/lgradbiz>.

Graduate-Level Courses for Undergraduate Credit

The College of Business Administration prohibits undergraduate students from registering for graduate-level courses and the use of graduate-level credit applied toward the undergraduate degree. Students should understand that graduate-level courses taken by an undergraduate student are not applicable toward a future graduate or professional degree.

Independent Study

Students are required to contact an instructor in their major field of study to propose a topic for independent study. If approved, a Request for Independent Study Form must be completed and approved by the academic department before registering for an independent study course. In addition, if the course is to be applied toward the major, a formal petition must be approved by the department head and the Undergraduate Programs Office of the college. Students should consult the department office for specific procedures regarding enrollment in independent study courses.

Petition Procedure

Students who want to make formal requests or appeal college policies do so by using a petition process. The CBA has various types of petitions available for different types of appeals, requests, or clarifications of policies and requirements. Petition forms and advice for completing these forms are available in the Undergraduate Programs Office in 1118 UH or on the CBA Web site <http://www.uic.edu/cba/ugrad/academicinfo.html>.

Proficiency Examinations

Students interested in earning proficiency credit should contact the department for information concerning eligibility and availability of a proficiency exam. This is subject to the University, college, and departmental policy on proficiency examinations. Proficiency credit cannot be earned by CBA students for major-level courses, nor can proficiency credit earned for a foreign language be used towards the degree. A student who earns proficiency credit is given the amount of credit toward graduation regularly allowed in the course. Proficiency credit is not considered an interruption of the enrollment residence requirement, nor a satisfaction of the last 30-semester-hour enrollment residence requirement for graduation.

Required Advising for Registration Approval

Each semester, all Accounting majors, who have started taking major-level accounting courses, are required to meet with an academic advisor and an assigned faculty advisor in their major department prior to receiving approval to register. Students on academic probation must also meet with an academic advisor prior to registering for the next semester. Registration holds will not be removed from the student's account until these conditions have been met.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. The College of Business Administration requires students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A, B, or C grades may not be repeated. Courses with D or F grades may be repeated once with written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course is **not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Transferring

Intercollege Transfer Students

UIC students from other colleges may apply for transfer to the College of Business Administration. Admission is competitive and based on space availability. The College of Business Administration holds biweekly information sessions for students who wish to transfer into the college. Information on application procedures and deadlines is available at these sessions and in 1118 UH. Call (312) 996-2700 to sign up for an intercollege transfer information session.

The following is a list of the minimum criteria needed to be **considered** for admission:

- Students must have a minimum UIC grade point average of 2.50/4.00 and a cumulative grade point average (UIC and transfer) of 2.50/4.00 in 36 or more semester hours of course work to have their records reviewed by the college.
- Students on academic probation or dismissal status will not be considered for admission.
- Students must successfully complete MATH 160 and 165 with minimum grades of C.

Transfer Students from Other Colleges and Universities

Admission into the college is competitive. The college reserves the right to adjust admissions criteria based on number of applications received and space availability.

The following guidelines list the minimum requirements to be **considered** for admission to the College of Business Administration:

- At the time of application,* a student must have completed a minimum of 24 semester hours (36 quarter hours) of credit with at least a 2.50/4.00 GPA.
- At the time of enrollment,* a student must have completed a minimum of 36 semester hours of credit with at least a 2.50/4.00 GPA.

**It is highly recommended that students complete their required Academic Writing courses, Finite Math, and either Business Calculus or Calculus I with minimum grades of C by the time of enrollment at UIC.*

Transferring Out of the College of Business Administration

Students should follow the process of the receiving college when requesting a transfer out of the College of Business Administration.

Minors

The College of Business Administration offers the following minors. Completion of one of these programs will be noted on the official UIC transcript upon graduation.

| Minor | Department | Hours |
|--------------------------------|-----------------------------------|-------|
| Business Operations | Information and Decision Sciences | 12 |
| Business Statistics | Information and Decision Sciences | 12 |
| International Business | Interdepartmental | 15 |
| Management Information Systems | Information and Decision Sciences | 12 |

Academic Advising

Academic advisors are located in the CBA Undergraduate Programs Office located on the 11th floor of University Hall. Office hours are Monday through Thursday, from 8:30 to 4:45 and Friday, 8:30 to 4:30. Additional information can be found online http://www.uic.edu/cba/ugrad/academic_services/cbacontact.html.

Advising Policy

The CBA Undergraduate Programs Office provides academic advising regarding course selection and registration, transfer credit, academic probation, and progress made toward the degree. It is the student's responsibility to make certain that the degree requirements are fulfilled. The college strongly recommends that all students meet with an advisor each semester to plan a manageable course schedule to stay on track for graduation.

Required Advising

Students must see an advisor for any of the situations listed below:

- All new students must attend an Orientation session to meet with an advisor and register for classes.
- All beginning freshmen must meet with their academic advisor each semester during their first year.
- All new transfer students are assigned an advisor and must meet with them during their first semester.
- Juniors and seniors majoring in Accounting are required to meet with a college advisor prior to meeting with an assigned faculty advisor in the Accounting department each semester.
- Students on academic probation and whose UIC GPA is below 2.00 must meet with an advisor three times each semester until the probationary status has been cleared.
- All graduating seniors are required to meet with an advisor for a graduation check the semester before they plan to graduate. See *Graduation Declaration/Filing to Graduate/Degree Completion* in this section of the catalog for information on filing to graduate.

Individual academic advising is by appointment. General questions can be answered by phone and e-mail. Students faced with an emergency situation should contact the director of academic services at (312) 996-2700.

Policies to Ensure Academic Progress

- Meet with an academic advisor each semester to facilitate academic success and stay on track for graduation.
- It is recommended that students enroll in a manageable course load of 12–13 hours the first semester of the freshman year. After the first semester, to complete the degree within four years, a student must enroll in an average course load of 15–16 hours per semester every semester after their first. The maximum course load is 18 hours per semester (12 hours between the two summer sessions).
- Students must choose courses for which they meet the prerequisites. Current prerequisites are listed in the *Schedule of Classes* or on the UIC Web site.
- Students must enroll in a math or statistics course each semester until the sequence is completed.
- English 160 and 161 should be completed by the end of the freshman year with minimum grades of C.
- Economics 130 should be completed during the first semester in which a student is enrolled for Mathematics 160 or Mathematics 165.
- IDS 200 should be completed after the first semester of the freshman year or during the sophomore year.
- IDS 355 should be completed the semester after IDS 200 and IDS 270 credit is earned.
- Finance and Information and Decisions Science majors should complete the advanced quantitative skills course after IDS 270 credit is earned.

Academic Honors**College Honors**

College Honors are awarded when a student graduates and are noted on both the diploma and transcript. To qualify for College Honors, students must do the following:

1. Complete the degree requirements.
2. Earn a minimum of 60 semester hours of credit at UIC.
3. Achieve a minimum UIC cumulative grade point average of 3.50.

Dean's List

Students are eligible for the Dean's List if they have completed a minimum of 12 graded hours, or 6 graded hours during the summer term, and if they earn a term grade point average of 3.50 or higher. Although the grade point average excludes courses taken on the credit/no credit option, a student who fails a course taken under this option is ineligible for the Dean's List.

Department Honors

Department Honors are awarded when a student graduates and are noted on the UIC official transcript. Department honors are awarded if the student meets the grade point average criteria listed below:

Distinction: Overall GPA of 3.25 and major GPA of 3.25

High Distinction: Overall GPA of 3.50 and major GPA of 3.50

Highest Distinction: Overall GPA of 3.75 and major GPA of 3.75

Special Programs and Opportunities**Undergraduate Programs**

- The CBA keeps its students informed of news and deadlines through the CBA listserv. CBA students are expected to check their UIC e-mail account daily for updates.
- The CBA awards approximately \$500,000.00 in scholarships per year. Applications are submitted online in January with the deadline in early February. Two letters of recommendation are required to complete the application. Scholarship recipients are notified in April and the scholarship awards are distributed in the next fall semester. The information about applying can be found online http://www.uic.edu/cba/ugrad/academic_services/scholarship.html.
- Student organizations related to each of the business majors provide opportunities for students to interact with faculty, alumni, and corporate professionals. Some of the CBA student organizations are: Accounting Club, Beta Alpha Psi, Beta Gamma Sigma, Collegiate Finance Organization, Collegiate Entrepreneurship Organization, Economics Club, Latino Association of Business Students, American Marketing Association, Management Club, National Association of Black Accountants, Information and Decision Sciences Organization, INFORMS, Investment Society, National Asian-American Society of Accountants. UIC has over 300 registered student organizations. Organizations can be found at <http://www.uic.edu/depts/chcc/programs/Campus/Files/>.
- The CBA newsletter is published four times a year and is available on the Web site to inform students about policies, events, scholarships, and Dean's List recipients and other CBA-related news.

- The CBA offers Honors business courses each semester. Students must either be a member of the Honors College or have a cumulative GPA of 3.40 to take these courses. The Honors courses provide an enhanced classroom experience and more contact and interaction with the professor. The Honors Course Designation will be noted on the official UIC transcript.
- Business students may opt to live on the Business or Entrepreneurship floors of the residence halls which provide an opportunity to connect, study, and socialize with other business students. Special programs are delivered by the college in the residence hall.
- The college offers students the unique opportunity to participate in the Leadership Academy Speaker series. Notable authors and business executives are invited to speak and interact with CBA students on a regular basis.
- The CBA Tutoring Program is available to business students in the areas of accounting, finance, math, and statistics.

Career Services

The Undergraduate Business Career Center encourages students to participate in many activities that are designed to inform them of their career options.

- Career advisors can help students gain career preparation and planning skills that they can use throughout their careers.
- Internship Training Seminars improve students' understanding of their skills, values, and interests and are held every two weeks.
- Resume development and mock interviews help maximize each student's opportunity for employment.
- The Corporate Internship Program exposes students to professional organizations through full-time and part-time paid internships. Students gain hands-on experience with corporate, nonprofit, and governmental clients in their fields of study.
- Students can meet hundreds of company representatives and learn about employment trends, salary ranges, and corporate cultures through CBA student organization presentations and at campus job fairs.

Career advising services include:

- Self-assessment instruments and interpretation assistance
- Career path and job market information
- Resume and cover letter reviews
- Informational interview recommendations
- Networking skill building
- Interview performance development
- Job search strategy planning
- Salary negotiation advice

The Undergraduate Business Career Center is located on the 11th floor of University Hall. More information can be found online <http://www.uic.edu/cba/ugrad/businesscareercenter.html> or by phoning (312) 996-2700.

Academic Options

- The CBA offers Honors business courses each semester. Students must either be a member of the Honors College or have a cumulative GPA of 3.40 to take these courses. The Honors courses provide an enhanced classroom experience and more contact and interaction with the professor. The Honors Course Designation will be noted on the official UIC transcript.
- The UIC Study Abroad Program provides students the opportunity to take courses in universities around the world. Courses must be reviewed and approved by the College of Business Administration for credit towards graduation.
- A Certificate in Entrepreneurial Studies is available to students in the College of Business Administration interested in the area of small business. This is an excellent opportunity for students to choose their major electives with an academic objective.
- Students may pursue Minors in: International Business, Management Information Systems, Business Operations, or Business Statistics.

Honor Code

As an academic community, the College of Business Administration at the University of Illinois at Chicago is committed to providing an environment in which teaching, learning, research, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the college community—students, faculty, staff, and administrators—share the responsibility of insuring that high standards of integrity are upheld so that such an environment exists.

In pursuit of these high ideals and standards of academic life, students will be expected to respect and uphold the UIC College of Business Administration Honor Code throughout their academic life at UIC. They will be expected to maintain the highest moral and ethical standards in all academic and business endeavors and to conduct themselves honorably as responsible members of the college academic community. This includes the following:

- Not to seek unfair advantage over other students, including but not limited to giving or receiving unauthorized aid during completion of academic requirements;
- To represent fact and self truthfully at all times;
- To respect the property and personal rights of all members of the academic community.

Violations of the Honor Code are just causes for discipline under the University of Illinois at Chicago *Student Disciplinary Policy*, and all allegations of Honor Code violations shall be handled pursuant to that Policy.

Student Organizations

Student groups, such as intramural sports teams, local and national chapters of fraternities and sororities, ethnic clubs, and academic and preprofessional organizations provide students with outlets for participating in activities which augment the educational experience. Many organizations are affiliated with the College of Business Administration, and include the following: Accounting Club; Beta Alpha Psi; Beta Gamma Sigma, National Association of Black Accountants (NABA); American Marketing Association (UIC Chapter); Economics Club; Collegiate Entrepreneurship Organization; Collegiate Finance Organization; The Information and Decision Sciences

Organization (IDSO); INFORMS Student Chapter; Investment Society; Latino Association of Business Students (LABS); the Management Club; and the National Asian-American Society of Accountants.

Beta Gamma Sigma

The College of Business Administration annually invites the upper 7 percent of the junior class and the upper 10 percent of the senior class to accept membership in Beta Gamma Sigma, the national scholastic honor society in the field of business administration. Inductees must have completed at least 30 semester hours at UIC and are chosen on the basis of their UIC and cumulative grade point averages.

Sample Business Major Curriculum

A sample four-year program in the College of Business Administration follows. Check individual major requirements for variations; some departments have fewer business electives and more required courses.

Note: Courses marked with * may be taken in any semester in any order.

Freshman Year

| First Semester | Hours |
|---|----------------|
| BA 100—Business Administration Orientation ^a | 1 ^a |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| MATH 160—Finite Math for Business | 5 |
| ECON 130—Principles of Economics for Business | 5 |
| Total Hours | 13 |

^aBA 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| MATH 165—Calculus for Business | 5 |
| ECON 218—Microeconomics: Theory and Business Applications | 4 |
| IDS 200—Introduction to Management Information Systems | 4 |
| Total Hours | 16 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| IDS 270—Business Statistics I | 4 |
| ACTG 210—Introduction to Financial Accounting | 3 |
| BA 200—Managerial Communication | 3 |
| General Education Core course* | 5 |
| Total Hours | 15 |

| Second Semester | Hours |
|--|-----------|
| ACTG 211—Introduction to Managerial Accounting | 3 |
| MGMT 340—Introduction to Organizations | 3 |
| MKTG 360—Introduction to Marketing | 3 |
| General Education Core course* | 3 |
| Elective* | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|--|-----------|
| MGMT 350—Business and Its External Environment | 3 |
| Advanced Quantitative Skills | 3 |
| FIN 300—Introduction to Managerial Finance | 3 |
| General Education Core course* | 3 |
| General Education Core course* | 3 |
| Total Hours | 15 |

| Second Semester | Hours |
|--------------------------------|-----------|
| IDS 355—Operations Management | 3 |
| General Education Core course* | 3 |
| Major course | 3 |
| Major course | 3 |
| Elective* | 3 |
| Total Hours | 15 |

Senior Year

| First Semester | Hours |
|-----------------------------------|-----------|
| Major course | 3 |
| Major course | 3 |
| Major course | 3 |
| General Education Core course* | 3 |
| Business Elective or Major course | 3 |
| Total Hours | 15 |

| Second Semester | Hours |
|-----------------------------------|-----------|
| Major course | 3 |
| Business Elective or Major course | 3 |
| Business Elective or Major course | 3 |
| Elective* | 3 |
| Integrative course | 4 |
| Total Hours | 16 |

DEPARTMENT OF ACCOUNTING

2305 University Hall (UH)
(312) 996-2650

<http://accounting.cba.uic.edu/>

Administration: Department Head, Peter Chalos
Undergraduate Programs, 1118 University Hall

Department Mission Statement

Consistent with the mission of the College of Business Administration and the University of Illinois at Chicago, the Department of Accounting is committed to quality in its educational programs, research pursuits, and service to the community.

Educational Mission

Education is a vital objective of the department. The department serves an ethnically diverse, largely self-supporting, and primarily first-generation student body. The department will deliver the most cost-effective, quality accounting education in the Chicago Metropolitan area.

Undergraduate students will be well prepared for professional careers and certification candidacy. Students will be encouraged to complete all degree requirements in a timely fashion through a coordinated program of faculty advising and staff counseling. Internships will be used as an additional vehicle to prepare students for the professional expectations of the work place.

The department will provide advanced study and synergistic programs through its graduate offerings, including the Master of Science in Accounting, joint Master of Science in Accounting/Master of Business Administration, and the Master of Business Administration (accounting specialization). Graduate education will play an increasingly important role in the department, consistent with the 150-hour Illinois CPA examination requirement.

Students admitted to CBA degree programs must show the potential and capacity to successfully complete all graduation requirements. Graduates must demonstrate proficiency in contemporary management skills, such as

information technology, communication techniques, and teamwork. The program will promote a perspective of the global economy and cultural diversification necessary for the worker of the 21st century.

Research Mission

Commitment to research is an integral component of the Department of Accounting. The department features an academically respected and professionally qualified faculty who actively produce and support basic and applied research. Faculty research and teaching expectations emphasize individual strengths, interests, and stages of career development through a coordinated program of peer review, support, and counsel.

Service Mission

Faculty will pursue external service activities which enhance departmental visibility, reputation, and presence at the local, national, and international levels. Service to the students, college, and University is expected internally. Service that enhances the University's urban mission will be encouraged.

Accreditation

The accounting program is accredited by AACSB International—The Association to Advance Collegiate Schools of Business.

BS in Accounting

Accounting is a system for measuring and reporting the financial position and performance of a variety of entities to interested parties.

These organizations include business firms, governmental units, and nonprofit organizations. Users of financial information include management, stockholders, and creditors. The scope of the accounting discipline is broad and varied. Specific functional areas are as follows: financial accounting, managerial accounting, governmental and nonprofit accounting, international accounting, auditing, information systems, and taxation. The department also offers business law courses.

Degree Requirements

To earn a Bachelor of Science in Accounting degree from UIC, students need to complete University, college, and department degree requirements. The Department of Accounting degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies.

| BS in Accounting Degree Requirements | Hours |
|--------------------------------------|------------|
| General Course Requirements | 60 |
| Business Core | 33 |
| Major Requirements | 19 |
| Business Electives | 9 |
| Total Hours—BS in Accounting | 121 |

General Course Requirements

See *General Course Requirements* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Business Core

See *Business Core* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-----------|
| ACTG 315—Intermediate Financial Accounting I | 3 |
| ACTG 316—Intermediate Financial Accounting II | 3 |
| ACTG 326—Cost Accounting | 3 |
| ACTG 435—Auditing | 4 |
| ACTG 445—Federal Income Tax I | 3 |
| ACTG 474—Accounting Information Systems | 3 |
| Total Hours—Major Requirements | 19 |

Business Electives

| Courses | Hours |
|---|----------|
| At least three courses from the following list: | 9 |
| ACTG 355—Business Law (3) | |
| ACTG 417—Advanced Financial Accounting (3) | |
| ACTG 446—Federal Income Tax II (3) | |
| ACTG 456—Business Law II (3) | |
| ACTG 465—Governmental and Nonprofit Accounting (3) | |
| ACTG 475—Database Accounting Systems (3) | |
| ACTG 484—International Accounting (3) | |
| ACTG 485—Valuation and Analysis of Internet and New Media Companies (3) | |
| ACTG 494—Special Topics in Accounting (1–4) | |
| Total Hours—Business Electives | 9 |

It is recommended that students who intend to sit for the CPA exam take ACTG 355, 417, 446, and 456.

Furthermore, before taking 300-level accounting courses, students should have completed IDS 200 and 270, as well as ECON 130.

Sample Course Schedule

See *Sample Business Major Curriculum* in the *College of Business Administration* section.

Distinction

See *Academic Honors* in *College of Business Administration* section.

DEPARTMENT OF FINANCE

2433 University Hall (UH)
(312) 996-2980

<http://www.uic.edu/cba/cba-depts/finance/>

Administration: Head, Gilbert W. Bassett Jr.

Administrative Assistant, Debbie Reed

Undergraduate Programs, 1118 UH

Department Mission Statement

The Department of Finance is a major unit within the College of Business Administration, justified by the strong student demand for majoring and concentrating in finance. The department aspires to be a leader in the areas of the financial services industry that are centered in Chicago. This will be accomplished by research-oriented faculty emphasizing the most innovative and fastest developing areas of finance, including risk management, insurance, derivatives, real estate, banking, and global financial markets.

The department's teaching mission will be accomplished by pursuing the following objectives:

- Provide strong professional training for careers in finance.
- Be the primary source of undergraduate students to the financial services industry in the Chicago area.

- Expand the department's MBA course offerings in recognition of being the preeminent concentration in that curriculum.
- Introduce curriculum specializations, primarily at the undergraduate level, designed for specific areas of the financial services industry such as global finance, derivatives, risk management, insurance, real estate, government finance, banking, and portfolio strategy.
- Use contemporary information technology in the learning process.
- Draw upon other departments for interdisciplinary teaching areas, including accounting, information technology, and actuarial science.

BS in Finance

The finance curriculum explores the principles of financial analysis and control of individual business firms. It applies these principles to financial management, the valuation and selection of securities, and the influence of the monetary and banking system on economic activity.

Degree Requirements

To earn a Bachelor of Science in Finance degree from UIC, students need to complete University, college, and department degree requirements. The Department of Finance degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies.

Finance majors should pass Finance 300 with a grade of C or better by the spring semester of their sophomore year in order to complete the department courses required for the major and to take advantage of the available career path groups listed below.

| BS in Finance Degree Requirements | Hours |
|-----------------------------------|------------|
| General Course Requirements | 60 |
| Business Core | 33 |
| Major Requirements | 18 |
| Business Electives | 9 |
| Total Hours—BS in Finance | 120 |

General Course Requirements

See *General Course Requirements* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Business Core

See *Business Core* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-----------|
| FIN 310—Investments | 3 |
| FIN 320—Managerial Finance | 3 |
| Twelve additional hours of 300- or 400-level courses in the Department of Finance. See lists below for career path suggestions. | 12 |
| Total Hours—Major Requirements | 18 |

Business Electives

| Courses | Hours |
|---|----------|
| Nine hours at the 200-, 300-, or 400-level chosen from courses in the College of Business Administration with a maximum of three hours at the 200-level. See lists below for career path suggestions. | 9 |
| Total Hours—Business Electives | 9 |

Course Suggestions for Finance Careers

Students may select courses based upon their interests and career goals. The finance electives shown below are grouped into logical career-path alternatives. *Students may, however, elect any combination of business courses to fulfill the elective requirement.*

Corporate Financial Analysis

This area is designed to introduce the student to the work of the financial officer of a company, who must be knowledgeable about financial statements, financial characteristics, and financial strategies of different types of firms.

| Courses | Hours |
|---|-------|
| FIN 444—Small Business Finance | 3 |
| FIN 495—Competitive Strategy Business Core Requirement | 4 |
| ACTG 315—Intermediate Financial Accounting I (Business Elective) | 3 |
| ACTG 316—Intermediate Financial Accounting II (Business Elective) | 3 |

Investment Management

This area is an introduction to the theory and practice of managing investments. The professional investment manager must be aware of the vast range of investments that are now available in the modern economy, as well as the methods used to hedge risks.

| Courses | Hours |
|---|-------|
| FIN 412—Portfolio Management | 3 |
| FIN 415—Fixed Income Securities | 3 |
| FIN 416—Options and Futures Markets | 3 |
| FIN 431—Theory and Structure of Financial Markets | 3 |
| FIN 494—Special Topics in Finance: Theory and Structure of Contract Exchanges | 3 |
| FIN 494—Special Topics in Finance: Investment Banking | 3 |

Banking and Financial Markets

This area traditionally was “money and banking,” but now banking and financial markets are far more elaborate and complex. The student is introduced to the structure and functions of the modern financial system. This area is a must for those interested in banking and related fields.

| Courses | Hours |
|---|-------|
| FIN 415—Fixed Income Securities | 3 |
| FIN 430—Introduction to Money and Banking | 3 |
| FIN 431—Theory and Structure of Financial Markets | 3 |
| FIN 494—Special Topics in Finance: Investment Banking | 3 |
| ECON 339—Monetary Theory (Business Elective) | 3 |

Global Finance

This area is an introduction to the firm's financial management in a global context. The central course is Finance 442, which covers the international monetary system, financial markets, management of foreign investments, and exchange risks.

| Courses | Hours |
|---|-------|
| FIN 415—Fixed Income Securities | 3 |
| FIN 416—Options and Futures Markets | 3 |
| FIN 442—International Finance | 3 |
| FIN 494—Special Topics in Finance: Theory and Structure of Contract Exchanges | 3 |
| ACTG 484—International Accounting (Business Elective) | 3 |
| ECON 333—International Economics (Business Elective) | 3 |

Real Estate

Real estate represents a significant portion of the assets held both by firms and by households. The area in real estate introduces the student to legal, economic, and financial aspects of real estate in the context of the Chicago metropolitan area.

| Courses | Hours |
|--|-------|
| FIN 371—Introduction to Urban Real Estate | 3 |
| FIN 472—Real Estate Finance | 3 |
| FIN 494—Special Topics in Finance: Municipal Finance | 3 |
| ECON 332—Urban Economics (Business Elective) | 3 |
| ECON 475—Real Estate Markets and Valuation (Business Elective) | 3 |

Risk Management and Insurance

This area is intended to prepare students for careers in the insurance industry or in areas of the financial industry that involve financial risk management.

| Courses | Hours |
|--|-------|
| FIN 416—Options and Futures Markets | 3 |
| FIN 465—Property and Liability Insurance | 3 |
| FIN 466—Life and Health Insurance | 3 |
| FIN 473—Introduction to Risk Management | 3 |

Sample Course Schedule

See *Sample Business Major Curriculum* in the *College of Business Administration* section.

Distinction

See *Academic Honors* in the *College of Business Administration* section.

DEPARTMENT OF INFORMATION AND DECISION SCIENCES

2402-2404 University Hall (UH)

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<http://www.uic.edu/cba/cba-depts/ids/>

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Undergraduate Programs: 1118 UH

Faculty Advisor: Dr. Sid Bhattacharyya,
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The Department of Information and Decision Sciences offers instruction in the application of computer and mathematical techniques to the analysis of problems of business and management. This involves three major interrelated disciplines: computer information systems, operations management and research, and statistics.

Majors in Information and Decision Sciences take courses that give a thorough background in each of the three disciplines and an up-to-date knowledge of one or more of the disciplines chosen by the student. This will enable a graduate of the program to bring an analytical approach to the solution of management problems and to find employment in fields, such as information systems development, operations and production management, and statistical data analysis. The program also provides ideal preparation for graduate study leading to the MS in Management Information Systems, Master of Business Administration, and other advanced degrees.

Students are also referred to *Statistics and Operations Research* in the *College of Liberal Arts and Sciences* section of the catalog.

BS in Information and Decision Sciences**Degree Requirements**

To earn a Bachelor of Science in Information and Decision Sciences degree from UIC, students need to complete University, college, and department degree requirements. The Department of Information and Decision Sciences degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies.

BS in Information and Decision Sciences

| Degree Requirements | Hours |
|--|------------|
| General Course Requirements | 60 |
| Business Core | 33 |
| Major Requirements | 18 |
| Business Electives | 9 |
| Total Hours—BS in Information and Decision Sciences | 120 |

General Course Requirements

See *General Course Requirements* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Business Core

See *Business Core* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-----------|
| One of the following courses: | 3 |
| IDS 201—Business Computing I (3) | |
| IDS 331—Business Analysis Using Spreadsheets (3) | |
| IDS 406—Business Systems Project | 3 |
| IDS 410—Business Database Technology | 3 |
| Nine additional hours of 300- or 400-level courses from the IDS department. | 9 |
| Total Hours—Major Requirements | 18 |

Business Electives

| Courses | Hours |
|--|----------|
| Any three 300- or 400-level CBA courses. | 9 |
| Total Hours—Business Electives | 9 |

A course can be used to satisfy only one area of required or elective courses.

Sample Course Schedule

See *Sample Business Major Curriculum* in the *College of Business Administration* section.

Distinction

See *Academic Honors* in *College of Business Administration* section.

DEPARTMENT OF MANAGERIAL STUDIES

2231 University Hall (UH)
(312) 996-2680

<http://www.uic.edu/cba/cba-depts/ms>

Administration: Department Head, Mark Shanley

Undergraduate Programs: 1118 UH

The Department of Managerial Studies offers a Bachelor of Science in Entrepreneurship, a Bachelor of Science in Management, and a Bachelor of Science in Marketing.

BS in Entrepreneurship

The field of entrepreneurship provides knowledge of new venture opportunities, methods for creating and growing enterprises, and the role of entrepreneurship and young or smaller firms in economic development and the world economy. The program will help prepare students to create their own ventures, work in professional sectors that serve small or young businesses, or contribute significantly to the success of businesses in which they are employed.

Degree Requirements

To earn a Bachelor of Science in Entrepreneurship degree from UIC, students need to complete University, college, and department degree requirements. The degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies. Students who wish to pursue the entrepreneurship degree may seek individual advising on their programs of study through the Undergraduate Programs.

| BS in Entrepreneurship Degree Requirements | Hours |
|--|------------|
| General Course Requirements | 60 |
| Business Core | 33 |
| Major Requirements | 18 |
| Business Electives | 9 |
| Total Hours—BS in Entrepreneurship | 120 |

General Course Requirements

See *General Course Requirements* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Business Core

See *Business Core* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-------|
| ENTR 454—Introduction to Entrepreneurship | 3 |
| ENTR 464—Entrepreneurial Consulting | 3 |

Students must complete 12 hours from the following two groups of courses:

Group 1:

At least six credit hours from the following:

- FIN 444—Small Business Finance (3)
- ENTR 430—Family Business Management (3)
- MKTG 475—Product Management (3)

Group 2:

The remainder of the twelve hours from the following:

- ACTG 326—Cost Accounting (3)
- ACTG 355—Business Law I (3)
- ACTG 456—Business Law II (3)
- ACTG 485—Valuation and Analysis (3)
- ECON 322—Managerial Economics (3)

- ECON 323—Business Conditions Analysis (3)
- ECON 329—Industrial Organization (3)
- ECON 331—Labor Economics (3)
- IDS 410—Business Database Technology (3)
- IDS 413—Internet Technology and Management (3)
- MKTG 462—Marketing Research (3)
- MKTG 473—The Personal Selling Effort in Marketing (3)
- MKTG 474—Advertising and Sales Promotion (3)
- MGMT 453—Human Resource Management (3)
- MGMT 465—Compensation and Reward Systems (3)
- MGMT 467—Impact of Technological Change (3)

Total Hours—Major Requirements 18

In addition to the specific courses listed above, the CBA frequently offers specialized sections of courses that include a strong emphasis on entrepreneurship; special topics courses (e.g., Principles of Internet Marketing, Real Estate Entrepreneurship, and the Kauffmann Internship Program); and specially designed independent studies in entrepreneurship that can also count toward the degree. Some of these courses have multiple prerequisites, which will require careful planning when scheduling courses.

Business Electives

| Courses | Hours |
|---|-------|
| Nine hours at the 300- or 400-level chosen from courses in the College of Business Administration. It is strongly recommended that students choose electives from the courses listed above, which are particularly related to entrepreneurship. | 9 |

Total Hours—Business Electives 9

Sample Course Schedule

See *Sample Business Major Curriculum* in the *College of Business Administration* section.

BS in Management

The field of management is concerned with the effective organization, development, and administration of business and other organizations. Students receive both theoretical and practical preparation for a variety of responsible managerial and specialist positions. The degree program in management emphasizes analytical thinking for effective decision making and broad preparation for leadership positions. Employment opportunities include general management positions in manufacturing, distribution, and service industries; staff positions in human resources management and industrial relations departments; and management positions in transportation and physical distribution.

Degree Requirements—Management

To earn a Bachelor of Science in Management from UIC, students need to complete University, college, and department degree requirements. The Department of Managerial Studies degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies.

| BS in Management Degree Requirements | Hours |
|--------------------------------------|------------|
| General Course Requirements | 60 |
| Business Core | 33 |
| Major Requirements | 18 |
| Business Electives | 9 |
| Total Hours—BS in Management | 120 |

General Course Requirements

See *General Course Requirements* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Business Core

See *Business Core* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-----------|
| MGMT 445—Organizational Analysis and Practice | 3 |
| MGMT 452—Organizational Behavior | 3 |
| MGMT 453—Human Resource Management | 3 |
| Three management courses from the lists below | 9 |
| Total Hours—Major Requirements | 18 |

Students must complete 9 hours chosen from courses listed below. Students may select the courses based upon their interests and career goals. The management electives shown below are grouped into logical career-path alternatives. Students may, however, elect any three courses to fulfill the elective requirement.

Human Resources Management and Managerial Skills

| Courses | Hours |
|---|-------|
| MGMT 454—Labor-Management Relations | 3 |
| MGMT 463—Negotiation and Conflict Resolution | 3 |
| MGMT 465—Compensation and Reward Systems | 3 |
| MGMT 466—Managerial Effectiveness through Diversity | 3 |

Organization and Strategic Management

| Courses | Hours |
|--|-------|
| MGMT 460—Business, Society, and the Global Economy | 3 |
| MGMT 467—Impact of Technological Change | 3 |
| MGMT 471—Management and Organizational Development | 3 |
| MGMT 480—Transportation Systems Management | 3 |
| MGMT 481—Managerial Logistics | 3 |

Cross-Listed Course

| Courses | Hours |
|------------------------|-------|
| MGMT 447—Organizations | 3 |

Business Electives

| Courses | Hours |
|---|----------|
| Nine hours from courses in the College of Business Administration. Students may choose ECON 221—Macroeconomics in the World Economy: Theory and Applications or any CBA courses at the 300- or 400-level. | 9 |
| Total Hours—Business Electives | 9 |

Sample Course Schedule

See *Sample Business Major Curriculum* in the *College of Business Administration* section.

BS in Marketing

Marketing involves several business activities that are performed in the process of getting goods and services from producer to the ultimate consumer. These activities include product management, pricing, promotion, and distribution. The Bachelor of Science in Marketing provides students not only with an understanding of those activities that comprise marketing but also with the tools and concepts they will need to make sound decisions in the area. Thus, courses are provided in marketing research, consumer behavior, analytical techniques in marketing, and marketing strategy to name a few. Several elective courses are also available to the student who desires a

broader view of the area. The basic objective of the curriculum is to produce a student who has a sound understanding of theory and a keen sense of how to apply it in practice.

Degree Requirements—Marketing

To earn a Bachelor of Science in Marketing degree from UIC, students need to complete University, college, and department degree requirements. The Department of Managerial Studies degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies.

| BS in Marketing Degree Requirements | Hours |
|-------------------------------------|------------|
| General Course Requirements | 60 |
| Business Core | 33 |
| Major Requirements | 18 |
| Business Electives | 9 |
| Total Hours—BS in Marketing | 120 |

General Course Requirements

See *General Course Requirements* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Business Core

See *Business Core* in the *College of Business Administration* section for the list of courses needed to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-----------|
| MKTG 461—Consumer Market Behavior | 3 |
| MKTG 462—Marketing Research | 3 |
| MKTG 465—Marketing Management | 3 |
| Nine additional hours selected from among the nonrequired 400-level courses in Marketing, except MKTG 499—Independent Study in Marketing. | 9 |
| Total Hours—Major Requirements | 18 |

Business Electives

| Courses | Hours |
|---|----------|
| Nine hours from courses in the College of Business Administration. Students may choose ECON 221—Macroeconomics in the World Economy: Theory and Applications or any CBA courses at the 300- or 400-level. | 9 |
| Total Hours—Business Electives | 9 |

Sample Course Schedule

See *Sample Business Major Curriculum* in the *College of Business Administration* section.

Distinction

See *Academic Honors* in *College of Business Administration* section.

MINORS

Undergraduate Programs Office
1118 University Hall (UH)
(312) 996-2700
<http://www.uic.edu/cba>
Undergraduate Programs Web site:
<http://www.uic.edu/cba/ugrad>

Minor in Business Operations

Streamlining business operations, coordinating complex supply chains, and managing customer relations have become critical success factors in business administration. The Business Operations minor trains students in these skills and makes them marketable. The minor program is open to majors from other units and colleges. Students must submit a request form to Undergraduate Student Services (1118 University Hall) to enroll. Students must also consult their home colleges about the acceptability and applicability of the Information and Decision Sciences course credit toward their degree. Registration for most IDS courses is restricted to students in the Department of Information and Decision Sciences; therefore students must register through the Department of Information and Decision Sciences (2402 University Hall). A minimum cumulative grade point average of 2.50/4.00 is required for admission to and completion of the minor field.

Requirements for the Minor

| Required Courses | Hours |
|---|-----------|
| The minor requires 12 hours (4 courses) from the list below: | 12 |
| IDS 312—Business Project Management (3) ^a | |
| IDS 331—Business Analysis Using Spreadsheets (3) ^b | |
| IDS 420—Business Model Simulation (3) ^c | |
| IDS 435—Organization Models and Methods (3) ^d | |
| IDS 437—Stochastic Methods (3) ^e | |
| IDS 446—Decision Analysis (3) ^f | |
| IDS 450—Advanced Operations Management (3) ^g | |
| IDS 454—Introduction to Supply Chain Management (3) ^h | |
| Total Minimum Hours—Minor in Business Operations | 12 |

Nonbusiness students will be required to take three Business Core courses (IDS 200, IDS 270, and IDS 355) or their equivalents as prerequisites to complete the minor.

| | |
|--|---|
| IDS 200—Introduction to Management Information Systems | 4 |
| IDS 270—Business Statistics I ⁱ | 4 |
| IDS 355—Operations Management ^j | 3 |

^a The prerequisite for IDS 312 is IDS 200.

^b The prerequisite for IDS 331 is IDS 200. Recommended background is ACTG 110.

^c The prerequisite for IDS 420 is credit or concurrent registration in IDS 331 or IDS 355.

^d The prerequisites for IDS 435 are IDS 355 and MATH 205 or the equivalent.

^e The prerequisite for IDS 437 is IDS 355 and IDS 371.

^f The prerequisite for IDS 446 is IDS 371.

^g The prerequisite for IDS 450 is IDS 355.

^h The prerequisite for IDS 454 is IDS 355.

ⁱ The prerequisite for IDS 270 is MATH 160 or MATH 165.

^j The prerequisites for IDS 355 are IDS 200, IDS 270, ENGL 161, and ECON 218.

Enrollment Residence Requirement in the Minor

A student must complete at least one-half of the course work required for the minor field in residence at the University of Illinois at Chicago. A 2.50 grade point average is required for all work completed for the minor at UIC.

Minor in Business Statistics

Data mining, data analytics, forecasting, business intelligence analysis, and quality control have been transformed by the needs of the new business operations and the availability of sophisticated information systems. The Business Statistics minor trains students in these areas and makes them more marketable. The minor program is open to majors from other units and colleges. Students must submit a request form to Undergraduate Student Services (1118 University Hall) to enroll. Students must also consult their home colleges about the acceptability and applicability of the Information and Decision Sciences course credit toward their degree. Registration for most IDS courses is restricted to students in the Department of Information and Decision Sciences; therefore, students must register through the Department of Information and Decision Sciences (2402 University Hall). A minimum cumulative grade point average of 2.50/4.00 is required for admission to and completion of the minor field.

Requirements for the Minor

| Required Courses | Hours |
|---|-----------|
| The minor requires 12 hours (4 courses): | |
| IDS 371—Business Statistics II ^a | 3 |
| Selective Courses: Select 9 hours from the following: | 9 |
| IDS 460—Survey Sampling: Theory and Methods (3) ^b | |
| IDS 462—Statistical Software for Business Applications (3) ^c | |
| IDS 472—Business Data Mining (3) ^d | |
| IDS 476—Business Forecasting Using Time Series Methods (3) ^e | |
| IDS 478—Regression Analysis (3) ^f | |
| Total Minimum Hours—Minor in Business Statistics | 12 |

Nonbusiness students will be required to take two Business Core courses (IDS 200 and IDS 270) or their equivalents as prerequisites to complete the minor.

| | |
|--|---|
| IDS 200—Introduction to Management Information Systems | 4 |
| IDS 270—Business Statistics I ^g | 4 |

^a The prerequisites for IDS 371 are IDS 270 and MATH 165.

^b The prerequisite for IDS 460 is IDS 371.

^c The prerequisite for IDS 462 is IDS 371 or consent of the instructor.

^d The prerequisite for IDS 472 is IDS 371 or the equivalent.

^e The prerequisite for IDS 476 is IDS 371 or ECON 346.

^f The prerequisite for IDS 478 is IDS 371.

^g The prerequisite for IDS 270 is MATH 160 or MATH 165.

Enrollment Residence Requirement in the Minor

A student must complete at least one-half of the course work required for the minor field in residence at the University of Illinois at Chicago. A 2.50 grade point average is required for all work completed for the minor at UIC.

Minor in International Business

The College of Business Administration offers a Minor in International Business for undergraduate students. The minor is an option that students may choose if they wish to complement their major field of study with knowledge in the area of international business. The minor requires 15 hours as distributed below:

Requirements for the Minor

| Required Courses | Hours |
|--|-----------|
| ECON 221—Macroeconomics in the World Economy: Theory and Applications ^a | 3 |
| Three courses^a selected from the following: | 9 |
| ACTG 484—International Accounting (3) ^b | |
| ECON 333—International Economics (3) | |
| ECON 334—Economic Development (3) | |
| FIN 442—International Finance (3) ^b | |
| MGMT 460—Business, Society, and Global Economy (3) | |
| MKTG 469—International Marketing (3) | |
| One course^c from the following list courses: | 3 |
| ANTH 101—World Cultures: Introduction to Social Anthropology (3) | |
| ANTH 214—Sex and Gender in World Cultures (3) | |
| POLS 130—Introduction to Comparative Politics (3) | |
| POLS 184—Introduction to International Relations (3) | |
| SOC 225—Racial and Ethnic Groups (3) | |
| SOC 268—Introduction to Comparative Sociology (3) | |
| Total Hours—Minor International Business | 15 |

^a No more than six of the twelve hours of business courses required for the minor may be counted toward the major requirements. The remaining hours may be counted toward the business electives requirement. For example, a student majoring in Economics may count ECON 333 and ECON 334 toward the required courses in economics; other business courses from the above list are counted toward the student's business electives.

^b ACTG 484 and FIN 442 have a prerequisite course that is not included in the Business Core.

^c Students should consult the General Education section of the catalog to determine if which of these courses are approved General Education courses.

Students are encouraged to use their nine elective hours to take courses that would complement the required courses listed above, e.g., additional General Education courses in the field of international studies and courses in a foreign language. Depending on the major, completion of this minor may bring the total number of semester hours to over 120.

Minor in Management Information Systems

Information systems are transforming business management. They have become critical to performing almost every function of business. The Management Information Systems minor trains students in the software, tools, and systems that are widely used across business. Students develop database and system design skills, computing and programming skills, including Internet technologies, process analysis, modeling, simulation, and problem solving skills. The minor program is open to majors from other units and colleges. Students must submit a request form to the Undergraduate Student Services (1118 University Hall) to enroll. Students must also consult their home colleges about the acceptability and applicability of the Information and Decision Sciences course credit toward their degree. Registration for most IDS courses is restricted to students in the Department of Information and Decision Sciences; therefore students must register through the Department of Information and Decision Sciences (2402 University Hall). A minimum cumulative grade point average of 2.50/4.00 is required for admission to and completion of the minor field.

Requirements for the Minor

The minor requires 12 hours (4 courses) distributed as follows:

| Required Courses | Hours |
|--|-----------|
| Programming Course: Select 3 hours from the following: | 3 |
| IDS 201—Introduction to Business Programming (3) ^a | |
| IDS 331—Business Analysis Using Spreadsheets (3) ^b | |
| Systems Course: 3 hours | |
| IDS 410—Business Database Technology ^c | 3 |
| Selective Courses: Select 6 hours from the following: | 6 |
| IDS 312—Business Project Management (3) ^d | |
| IDS 400—Advanced Business Programming Using Java (3) ^e | |
| IDS 401—Business Object Programming Using Java (3) ^f | |
| IDS 405—Business Systems Analysis and Design (3) ^g | |
| IDS 406—Business Systems Project (3) ^h | |
| IDS 412—Distributed Business Systems (3) ⁱ | |
| IDS 413—Internet Technology and Management (3) ^j | |
| IDS 420—Business Model Simulation (3) ^k | |
| IDS 422—Knowledge Management Systems (3) ^l | |
| IDS 454—Introduction to Supply Chain Management (3) ^m | |
| IDS 472—Business Data Mining (3) ⁿ | |
| Total Minimum Hours—Minor in Management Information Systems | 12 |

Nonbusiness students will be required to take one Business Core course (IDS 200) or its equivalent as a prerequisite to complete the minor.

IDS 200—Introduction to Management Information Systems 4

^a The prerequisites for IDS 201 are IDS 200 and MATH 160 or the equivalent.

^b The prerequisite for IDS 331 is IDS 200. Recommended background is ACTG 110.

^c The prerequisite for IDS 410 is IDS 201 or IDS 331.

^d The prerequisite for IDS 312 is IDS 200.

^e The prerequisite for IDS 400 is IDS 201 or IDS 331 or a programming course in mathematics or computer science, or consent of the instructor.

^f The prerequisite for IDS 401 is IDS 201 or the equivalent.

^g The prerequisite for IDS 405 is IDS 201.

^h The prerequisite for IDS 406 is knowledge of programming and databases or consent of the instructor.

ⁱ The prerequisites for IDS 412 are IDS 201 or IDS 330; and credit or concurrent registration in IDS 410.

^j The prerequisites for IDS 413 are IDS 201 and IDS 410.

^k The prerequisite for IDS 420 is credit or concurrent registration in IDS 355; or credit or concurrent registration in IDS 331 or the equivalent.

^l The prerequisite for IDS 422 is IDS 410 or consent of the instructor.

^m The prerequisite for IDS 454 is IDS 355.

ⁿ The prerequisite for IDS 472 is IDS 371 or the equivalent.

Enrollment Residence Requirement in the Minor

A student must complete at least one-half of the course work required for the minor field in residence at the University of Illinois at Chicago. A 2.50 grade point average is required for all work completed for the minor at UIC.

College of Education

Dean, Dr. Victoria Chou

3004 Education, Performing Arts, and Social Work
(EPASW)

(312) 996-5641

<http://www.education.uic.edu>

Administration:

Associate Dean for Academic Affairs, Dr. Celina Sima
Associate Dean for Student Affairs, Dr. Joyce Eisen
Assistant Dean for Administration, Loretta Foote Casey
Coordinator of Undergraduate Elementary Education,
Dr. Eleni Katsarou

Student Services: 3145 EPASW, (312) 996-4532

Academic Advisor: Coordinator of Admissions and
Advising, Jennifer DeLago, (312) 996-0707

Departments: Curriculum and Instruction, Educational
Psychology, Educational Policy Studies, Special
Education

Council on Teacher Education: Executive Director,
Dr. Cynthia Shanahan, (312) 355-0714

Assistant to the Executive Director, Dr. Marietta
Giovannelli, (312) 996-9570

Certification Officer, Lisa Jones (312) 355-0714

Student Teaching Coordinator, Marsha Manheim,
(312) 355-0714

Data Manager and TaskStream Coordinator, Betsy
Gates-Ehlers (312) 355-0714

Introduction

The College of Education (COE) offers a program leading to the degree of Bachelor of Arts in Elementary Education designed to prepare teachers in grades K–9. Program curriculum, instruction, and fieldwork emphasize preparation for teaching in urban schools. All fieldwork and student teaching are conducted exclusively in Chicago Public Schools and especially in underserved sites. The program has a three-part commitment: building strong linkages with general education in the College of Liberal Arts and Sciences; providing continual opportunities to study multiculturalism, bilingualism, and cross-cultural issues, issues related to students with disabilities, fine arts, and technology; and working in multiple urban sites and communities for learning. Moreover, as the Conceptual Framework states clearly, graduates from the college's programs are committed, knowledgeable, and effective educators. The College of Education sets out to foster the importance of knowledge and skills in the content of their field, but also emphasize that they dedicate themselves to the continuing development of their own abilities to educate all students in the face of social and education inequities rooted in race, class, language, gender, disability, and other social differences.

The elementary education program consists of four specific kinds of experiences to create a strong foundation for students preparing to teach elementary school: General Education and Foundational Studies, Area of Concentration, Professional Education Courses, and Fieldwork. Each of these program components is described in detail below. Although students do not apply for admission to the professional education portion of the program until they have completed at least 60 semester hours of undergraduate work required by the College of Education, they should take special care to be fully aware of all requirements for the program from the start of their work at UIC.

Applicants who have already earned a bachelor's degree must apply to the graduate program. Nondegree students are not accepted. Students preparing to teach in secondary schools enter the appropriate college offering the area of specialization they wish to pursue. For example, students

interested in teaching art in the high school enter the College of Architecture and the Arts. Majors in such areas as English, history, and foreign languages apply to the College of Liberal Arts and Sciences.

State Teacher Certification

The curricula for the preparation of elementary and secondary school teachers as listed in this catalog have been approved by the Illinois Board of Higher Education, the North Central Association of Colleges and Schools, the Illinois State Board of Education, and the University.

Council on Teacher Education

The Council on Teacher Education (CTE) is responsible for coordinating teacher education programs throughout the University of Illinois at Chicago and for maintaining relationships with the Illinois State Teacher Board of Education.

Decisions about certification are a joint effort of a candidate's program, the Council on Teacher Education (CTE), and the Illinois State Board of Education (ISBE). The program coordinator and faculty have the main responsibility for ensuring that candidates are prepared to become teachers and are, thus, entitled to apply for certification. They approve qualifications before the CTE begins its process of evaluation. The CTE's certification officer entitles an individual to apply for certification at the state level for the institution. The CTE checks that candidates have met state requirements, such as passing the required state-level tests and completing the course and grade requirements stipulated by the program as addressing state objectives. ISBE makes the final decision about whether or not a candidate receives certification based upon the information it receives from the institution and a candidate's application.

Taskstream Folio System

In order to monitor program effectiveness and to provide programs with information they can use to guide candidates' work and program reform, the Council on Teacher Education (CTE) also collects assessment information from students and candidates as they prepare to be teachers. Students should keep up to date on assessment requirements, as they may not be able to register for course work if they fall behind. This assessment information is discussed in program orientations and is available on the CTE Web site [http:// education.uic.edu/cte/](http://education.uic.edu/cte/). TaskStream, an electronic folio system, is the main avenue by which teaching majors and candidates will turn in assessments. New majors and candidates may go online <http://www.taskstream.com> to register in the system. Once registered, candidates may use the system for a variety of purposes in addition to uploading assessments for the CTE. The system provides several menu-driven ways to create portfolios to use for course work, assessment, and job search. It also provides lesson planning, rubric, Web page, and discussion group frameworks. Some professors will use TaskStream to organize their courses; students' certification programs may use it for various purposes.

State Examinations

Prior to certification, the candidate must also pass a series of examinations required by the Illinois State Board of Education. The Illinois Basic Skills Test must be passed prior to applying for candidacy in the teacher education program. The Illinois Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. These tests are administered and monitored by the State of Illinois. The candidate is responsible for meeting this requirement. See the NES

Web site <http://www.icts.nesinc.com> for the available test dates, registration information, and study guides. Registration materials may also be picked up from the Council on Teacher Education. Students and candidates must take the tests in sufficient time for the results to accompany the appropriate application.

Program Pass Rates

In accordance with the public disclosure requirements of Title II of the Higher Education Act, the University of Illinois at Chicago reports that teacher education program completers scored as follows on the two assessments required by the state for teacher certification in effect for 2006–2007. During the academic year 2005–2006, UIC program completers had a 100% pass rate on the two required exams, Basic Skills Test and Content Area Test. During 2006–2007, UIC program completers had a 100% pass rate on the two required exams. For both years, the statewide pass rate on the required exam was 99%.

Student Teaching

All teacher candidates must apply to the CTE to student teach. This application includes documentation of a passed TB test. In addition, in order to student teach within the Chicago Public Schools, teacher candidates must complete a separate CPS application that includes a lesson plan, a resume, and essays, and, if these are approved, they must complete the registration process with CPS, which includes a criminal background check. Teacher candidates are expected to bear the expense of both the TB test and the criminal background check.

Other Certification Policies (or Requirements)

Teacher education candidates must be citizens of the United States to be eligible for an Illinois teaching certificate or become a citizen within ten years of receiving a teaching certificate. Please note that, in some cases, the State of Illinois will not issue a teaching certificate to an individual who has been convicted of a criminal offense. A candidate who has been convicted of an offense should notify his or her advisor immediately.

Admission to the Elementary Education Program

All students entering the University of Illinois at Chicago as freshmen who wish to pursue a degree in elementary education must first enroll in pre-elementary education studies in the College of Liberal Arts and Sciences. Enrollment in this program precedes admission to the Elementary Education program in the College of Education and ensures that students receive regular communications from the College of Education about program requirements and deadlines. Students must earn a minimum of 60 semester hours of specific course work required by the College of Education for elementary education program admission. Students may obtain applications for admission to the Elementary Education program in the semester during which they will complete the 60-semester-hour requirement. Because admission to the Elementary Education program is highly competitive and space is limited, the College of Education strongly recommends that students in the pre-elementary education curriculum meet with their advisors in the College of Education, Office of Student Services, on a regular basis.

The College of Education accepts applications for the Elementary Education program for the fall term only; applications are due in the spring semester. A separate application and supporting documents are required for admission to the Elementary Education program. An application packet may be obtained by contacting the

Office of Student Services in the College of Education (MC 147), 1040 W. Harrison, 3145 EPASW, Chicago, Illinois 60607-7133. Formal course work in elementary education begins in the fall semester of the junior year. (However, there are two prerequisite courses to be taken before the junior year—See Phase II below.)

Admission requirements include:

1. A minimum cumulative GPA of 2.50/4.00 at time of application. Courses in which a student receives a grade lower than a C will not be applied to the requirements.
2. Completion of a minimum of 60 semester hours of course work required by the College of Education at time of application.
3. Completion of the College of Education Request for Admission Form.
4. 50 service learning hours completed by time of application. Acceptable service learning hours will include work with school-aged children (ages 5 to 14) in an urban educational setting.
5. Submission of two letters of recommendation, one of which must be from the supervisor of the service learning hours and one from an academic professional who has taught the student at the college level.
6. Writing samples and oral interview with College of Education faculty.
7. Passing score on the Illinois Basic Skills Test.

Admission to the College of Education is completed in phases. The phases listed below have been developed to align with the new teaching standards required by the State of Illinois for certification in Elementary Education.

Phase I—Admission to UIC

Freshmen enter into the pre-elementary education curriculum in the College of Liberal Arts and Sciences. Students must meet eligibility requirements set by the College of Liberal Arts and Sciences. Please refer to the *Admissions* section of the catalog.

Phase II—Admission to the College of Education

Junior Entry

Factors reviewed for admission to candidacy:

Academic performance

- Overall GPA: minimum 2.50/4.00
- Minimum 60 semester hours of LAS courses completed
- General Education courses completed

Supplementary materials to be sent to the College of Education

- Request for Admission Form to the College of Education
- Description of 50 service learning hours working with children in an urban educational setting
- Two letters of recommendation (one of which to be based on service learning hours)
- Writing sample
- Passing of the ICTS Basic Skills Test
- Impromptu writing sample
- Oral interview with COE faculty
- Successful completion of ED 257 and EPSY 255 (prior to admission)

Phase III—Admission to Student Teaching Senior Entry

Factors reviewed for admission:

UIC academic performance

- Overall GPA: minimum 2.50/4.00
- COE GPA: minimum 3.00/4.00
- General Education courses completed

Fieldwork performance

- Minimum of 140 hours completed with satisfactory progress
- Reflective journals related to fieldwork completed with satisfactory progress
- Writing sample about fieldwork

Student interview that covers the following:

- Junior draft of Teaching Philosophy
- Review of two papers written in course work evaluated using state writing assessment criteria
- Teaching Portfolio containing evidence of Illinois Professional Teaching Standards and Teaching Philosophy statement

Passing grade on the Illinois Elementary Education Content Area Test prior to student teaching (ED 450).

Student Teaching Application to CTE, including pass on TB Test

Student Teaching Application to CPS

Registration with CPS, including Criminal Background Check

Phase IV—Recommendation to Entitlement to Certification

Completion of Program

Factors reviewed for entitlement to certification:

- Satisfactory completion of all course work and fieldwork
- Passing Illinois Basic Skills Test
- Passing Illinois Elementary Education Content Area Test
- Passing Assessment of Professional Teaching (APT) Test
- Satisfactory completion of all requirements of the Council on Teacher Education unit assessment plan (aligned with State of Illinois certification requirements)

BA in Elementary Education—Degree Requirements

To earn a Bachelor of Arts in Elementary Education degree from UIC, students need to complete the University and college degree requirements outlined below.

| BA in Elementary Education Degree Requirements | Hours |
|---|----------------|
| General Education Course Requirements | 43 |
| Foundational Studies in Education Course Requirements | 16 |
| Professional Education Course Requirements | 51 |
| Area of Concentration Requirements | 15–24 |
| Total Hours—BA in Elementary Education | 125–134 |

Semester Hour Requirement (see below)

General Education Course Requirements

| Courses | Hours |
|---|----------|
| University Writing Requirement | |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Choose one course^a from the following: | 3 |
| ENGL 101, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119. | |

Semester Hour Requirement

The Bachelor of Arts in Elementary Education requires a minimum of 125 semester hours, exclusive of military science courses. The semester hour requirement varies by concentration as outlined below.

| Degree Program Concentration | Degree Conferred | Hours for Concentration | Total Hours |
|---|----------------------------|-------------------------|-------------|
| African American Studies | BA in Elementary Education | 15 | 125 |
| Bilingual | BA in Elementary Education | 20 | 130 |
| Bilingual and ESL | BA in Elementary Education | 24 | 134 |
| Cultural and Social Studies | BA in Elementary Education | 15 | 125 |
| English | BA in Elementary Education | 15 | 125 |
| English as a Second Language (ESL) | BA in Elementary Education | 19 | 129 |
| History and Social Studies | BA in Elementary Education | 15 | 125 |
| Study in One Discipline in the Humanities, Social Sciences, and Multicultural Studies | BA in Elementary Education | 15 | 125 |
| Latin American and Latino Studies | BA in Elementary Education | 15 | 125 |
| Mathematics | BA in Elementary Education | 18 | 128 |
| Natural Sciences | BA in Elementary Education | 19 | 129 |
| Special Education | BA in Elementary Education | 15 | 125 |

Choose one course^b from the following: 3
 ANTH 100, 101, 214; GEOG 100, 101, 151; HIST 106, 109, 110, 141, 161, 177, 241, 242, 277, 278; LALS 101, 102, 105, 109; LING 170.

PSCH 100—Introduction to Psychology^c 4
 POLS 101—Introduction to American Government and Politics^d 3

Choose one course^e from the following: 3
 HIST 103—American Civilization to the Nineteenth Century (3)
 HIST 104—American Civilization since the Late Nineteenth Century (3)

NATS 101—Physical World^f 4
 NATS 102—Chemical World^f 4
 NATS 103—Biological World^f 4
 NATS 104—Project-Based Seminar in Natural Science 1

Mathematics

MATH 140—Arithmetic and Algebraic Structures 4
 MATH 141—Algebraic and Geometric Structures 4
Total Hours—General Education 43

^a Each course on this list is approved for the Understanding the Creative Arts General Education category.

^b Each course on this list is approved for the Exploring World Cultures General Education category.

^c This course is approved for the Understanding the Individual and Society General Education category.

^d This course is approved for the Understanding U.S. Society General Education category.

^e Both of these courses are approved for the Understanding the Past General Education category.

^f This course is approved for the Analyzing the Natural World General Education category.

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. Through the BA in Elementary Education Program General Education Course Requirements, College of Education students fulfill the University's General Education Core requirement of a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses in each General Education Core category, students should consult the *General Education* section of the catalog.

General Education Proficiencies—University Writing Requirement

As noted in the General Education Course Requirements list, College of Education students meet the requirement by achieving a passing grade in English 160 and 161.

Foundational Studies in Education Course Requirements

| Courses | Hours |
|--|-------|
| ED 345—Multiculturalism, Bilingualism, and Diversity in Elementary Schools | 4 |
| ED 352—Technology Integration in Elementary School I | 2 |
| ED 353—Technology Integration in Elementary School II | 2 |
| EPSY 255—Child Development and Elementary Education | 3 |

| | |
|--|-----------|
| EPSY 360—Learning, Cognition, and Student Assessment | 2 |
| EDPS 361—Social Foundations in Education | 3 |
| Total Hours—Foundational Studies | 16 |

Professional Education Course Requirements

| Courses | Hours |
|--|-----------|
| ED 257—Foundations of Literacy Learning and Teaching | 3 |
| ED 340—Teaching Language and Literacy in Elementary Schools I | 3 |
| ED 341—Teaching Language and Literacy in Elementary Schools II | 3 |
| ED 342—Teaching and Learning Mathematics in the Elementary School | 3 |
| ED 343—Teaching and Learning Science in the Elementary School | 3 |
| ED 344—Teaching and Learning Social Studies and Art in Elementary School | 3 |
| ED 350—Orchestrating Teaching and Learning I | 4 |
| ED 351—Orchestrating Teaching and Learning II | 4 |
| ED 450—Composing a Teaching Life I—Student Teaching | 15 |
| ED 451—Composing a Teaching Life II—Senior Reflective Seminar | 5 |
| SPED 415—Characteristics of Exceptional Learners | 3 |
| SPED 416—Methods of Instruction for Exceptional Learners | 2 |
| Total Hours—Professional Education | 51 |

Area of Concentration Requirements

1. Areas of concentration require specific courses; students must follow the guidelines of the area selected.
2. The concentration may not include a general studies course.
3. The concentration must be chosen from an approved list of concentrations (available in the College of Education Office of Student Services) during the freshmen or early sophomore year. Please consult the College of Education advisor.
4. Every student must seek approval of the chosen concentration and the intended course work from an academic advisor in the College Office of Student Services before completing more than 3 semester hours in the concentration.

English as a Second Language Approval (ESL)

Students enrolled in the Elementary Education program may choose ESL as the area of concentration to earn approval as a Bilingual and/or English as a Second Language teacher. Information about the ESL Approval may be obtained from the College of Education Office of Student Services, 3145 EPASW, (312) 996-4532. Please note that the State of Illinois is in the process of revising requirements for the ESL approvals and additional course work may be required. Be advised that changes may occur without notice and will be effective immediately.

Middle School Endorsement

As of July 1, 1997, the Illinois State Board of Education requires that those students interested in teaching in middle grades (5–8) must take additional course work. This applies even though the Standard Secondary Certificate (Type 03) states eligibility for teaching in grades kindergarten through nine. Please note that the State of Illinois is in the process of revising middle school endorsement requirements and additional course work may be required. Be advised that changes may occur without notice and will be effective immediately. Additional information may be obtained from the College of Education Office of Student Services, 3145 EPASW, (312) 996-4532.

Elementary School Student Teaching Requirement

Student teaching is completed in the first semester of the senior year. Minimum requirements for student teaching include senior standing; 3.00/4.00 GPA in the foundational education course work and the professional education course work; 2.50/4.00 GPA for all General Education course work; satisfactory completion of fieldwork as assessed by university field instructors and school mentor teachers; accumulation of at least 100 clock hours of satisfactory experiences; approval of the program faculty through review of performance according to the GPA; UIC Elementary Education Principles; development of the Teaching Portfolio; and the passing of the required state tests.

Courses to be completed successfully prior to student teaching include the following: LAS General Education, ED 345, EPSY 255, ED 257, ED 340, ED 350, ED 341, ED 342, SPED 415, ED 351, ED 343, EPSY 360, and ED 344. ED 352 is to be taken concurrently with student teaching. SPED 416 must be taken during the second semester of the senior year after the completion of student teaching.

Other Requirements

Students must complete the requirements of the University and college that are in effect at the time of initial registration. It is essential for each student to become familiar with graduation requirements and to keep up to date with any published changes.

If requirements are changed, continuing students and those whose attendance at UIC has been interrupted for no more than two years may complete the current graduation requirements or may continue to meet those requirements in effect at the time of initial registration. Students who return to UIC after an absence of more than two years are responsible for meeting the requirements of the University and college in effect at the time of the student's reenrollment. If courses originally required are no longer offered, the college has the prerogative of specifying substitutes. Students should be aware that changes occurring in state certification requirements may necessitate additional graduation requirements.

Course Level Requirement

During the junior and senior years, a student must earn at least 30 hours in advanced-level courses (300-level) at the University of Illinois at Chicago or any other accredited four-year college or university.

Course Work Limitations

Course work that duplicates previous credit does not count toward graduation. Credit is not given for a course in which a failing grade is received.

Full-Time Enrollment

The undergraduate Elementary Education program is a full-time program and students will be required to register for specific course work each semester while enrolled in the College of Education at UIC.

Grade Point Average (GPA) Requirement

To be eligible for graduation a student must have earned a cumulative grade point average of 2.50/4.00 in all General Education course work and a cumulative grade point average of 3.00/4.00 in the Education major.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final

review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Enrollment Residence Requirement

Either the first 90 or the last 30 semester hours of degree work must be completed in continuous, uninterrupted enrollment residence at the University of Illinois at Chicago. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution, or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement for graduation. Work done at the Springfield or Urbana-Champaign campuses of the University of Illinois does not satisfy this requirement. Credit earned through proficiency examinations, including credit earned through the College Level Examination Program (CLEP), UIC extension courses, and Urbana-Champaign correspondence courses, does not apply toward the minimum 30 semester hour enrollment residence requirement.

Transfer Credit

Courses completed at other institutions may be applied in partial fulfillment of graduation requirements and as prerequisites for courses at UIC. The college determines the transfer hours that apply toward the degree. Courses listed for credit on a Student Profile, Academic Advising Document, Degree Audit Report, or transcripts are not necessarily accepted for the degree.

Transfer Credit for Continuing Students

The College of Education may permit concurrent registration at a transfer institution. Please consult an academic advisor in the Office of Student Services, 3145 EPASW.

College Policies

Academic Load

To be considered full time, a student must be enrolled in a minimum of 12 semester hours each semester. During the regular academic year, a course load exceeding 18 hours (12 hours in the summer) must be approved in the College of Education. Please consult an academic advisor in the Office of Student Services, 3145 EPASW.

In addition, some education courses require fieldwork, which means that students will spend a significant amount of time participating in other education settings (e.g., local schools). The nature and extent of the fieldwork varies from course to course.

Academic Probation and Dismissal Rules

Elementary education faculty evaluate each student's progress through semester reviews using the UIC Elementary Education Principles, evaluation of the student's UIC Teaching Portfolio, and through the State of Illinois Professional Teaching Standards.

Probation Rules

A student whose term grade point average or cumulative grade point average is less than 2.50/4.00 is placed on probation. The cumulative grade point average includes all transfer credit and work completed at UIC.

Dismissal Rules

1. A student whose grade point average in any term is below 1.00/4.00 will be dismissed.
2. A student who fails to meet the terms of probation or is on probation for two consecutive terms will be dismissed.
3. A student who is dismissed will not be considered for readmission to the College of Education until after a lapse of at least one term.

4. A student who fails to make progress toward a degree may be dismissed. Examples include failure to complete required courses, accumulation of an excessive number of incomplete grades, failure to earn credit in any semester, failure to maintain a 3.00/4.00 grade point average in the Education major, or inadequate professional performance as judged by elementary education faculty.

Any student who does not meet the requirements of the College of Education will be dismissed from the college and may be dismissed from the University.

Change of Course Schedule—Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program.

Change of Major

On the undergraduate level, the College of Education offers only Elementary Education as a major. The area of concentration may not be changed once admitted to the college.

Class Attendance

The class attendance policy is generally stated on the course syllabus. The College of Education encourages students to contact the instructor of the course if class will not be attended on a specific date. Excessive absences from class and/or fieldwork and/or student teaching may result in dismissal from the program.

Closed Courses

Classes that are closed will not be overenrolled. Please consult the advisor in OSS, 3145 EPASW, for further information.

Course Prerequisites

Course prerequisites will not be waived. Please consult the advisor in OSS, 3145 EPASW, for further information.

Credit/No Credit Option

None of the required courses in the College of Education may be taken on the credit/no credit option.

Declaring a Major

The major will be declared upon admission into the College of Education.

Double Major, Double Degrees, and Second Bachelor's Degree

Double Major

The College of Education does not permit double majors. Please consult the advisor in OSS, 3145 EPASW, for further information.

Double Degrees

This option is not available in the College of Education.

Second Bachelor's Degree

Applicants who have already earned a bachelor's degree must apply to the graduate program.

Graduate-Level Course for Undergraduate Credit

Please consult the advisor in OSS, 3145 EPASW, for further information.

Independent Study

Enrollment in an independent study course is limited to students with junior or senior standing. A student may apply a maximum of 8 hours of independent study toward graduation requirements. Please consult the advisor in OSS, 3145 EPASW, for further information.

Ongoing Assessment of Professional Growth

In an effort to support professional growth, all candidates will be assessed in regard to the UIC Elementary Education Principles. These principles provide a guide for becoming an exemplary urban teacher via student self assessment, mentor teachers who guide fieldwork in Chicago Public School classrooms, field instructors from UIC who supervise fieldwork, and faculty who teach courses in the program. The meaning of the principles in practice, as well as how the program's system of assessments works, are explained at the program orientation and incorporated into all classes and fieldwork requirements.

All candidates will construct a UIC Teaching Portfolio across their work in the program. Details are presented at the program orientation and incorporated into all classes and fieldwork requirements.

The Assessment of Professional Growth plan is aligned with the State of Illinois Professional Teaching Standards.

Candidates should expect program coordinators and faculty to review their work periodically so that they may better assist them in meeting their goal of becoming teachers. Candidates should meet with their advisors, faculty, and/or coordinators any time they are experiencing difficulty or are unsure of where they stand. Program coordinators will have access to individual files, and they may choose to use this information as they monitor student progress in meeting the capacities outlined in the Safety and Technical Standards document. Candidates should also make sure that they will receive their degree and certification by becoming familiar with college and certification requirements. Questions specifically about certification should be directed to the CTE and/or ISBE. Questions specifically addressing degree completion should be directed to the college's Office of Student Services.

Assessments Gathered beyond Program-Based Assessments

In order to monitor program effectiveness and to provide programs with information they can use to guide candidates' work and program reform, the Council on Teacher Education (CTE) will also collect assessment information from candidates as they prepare to be teachers. Candidates should keep up to date on assessment requirements, as they may not be able to register for coursework if they fall behind. These assessments are described in the *Undergraduate Elementary Handbook* and on the CTE Web site <http://www.uic.edu/educ/cte/>.

Petition Procedure

Any rule, regulation, or action of the college may be appealed through the use of the student petition. These petitions are submitted to the associate dean for student

affairs. Petitions are available in the College of Education Office of Student Services, 3145 EPASW. Please consult the advisor in OSS, 3145 EPASW, for further information.

Proficiency Examinations

Please consult the advisor in OSS, 3145 EPASW, for further information.

Registration Approval

To be eligible to register or change of course schedule, a College of Education student must secure written approval from the College of Education academic advisor in the Office of Student Services, 3145 EPASW.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. Some colleges require students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. Normally, courses with a C grade may not be repeated. Courses with D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college dean. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course **is not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Transferring

Intercollege Transfer Students

See *Admission to the Elementary Education Program* earlier in this section.

Transfer Students from Other Colleges and Universities

Students wishing to transfer from another college must apply for admission. Consult the previous section *Admission to the Elementary Education Program*. Application information on applying may also be obtained from the Office of Student Services, 3145 EPASW.

Transferring out of the College

Students wishing to transfer from the College of Education to another college should follow the procedures of the other college.

Minors

The College of Education does not acknowledge minors on a student's transcript.

Academic Advising

Advisors are located in the College of Education, Office of Student Services, 3145 EPASW, (312) 996-4532.

Advising Policy

During the first year of the program, students completing the pre-elementary education curriculum should consult advisors in the College of Education. Students admitted to the College of Education are assigned an advisor, are required to meet with their advisor each semester, and must have approval of their advisor to register for courses.

All students admitted to the College of Education are required to attend a mandatory program orientation to become familiar with expectations and student responsibilities. Students must attend the orientation to be eligible to register for first semester courses in the College of Education. Orientations are announced upon acceptance into the College of Education.

Academic Honors

College Honors

A student who has demonstrated outstanding academic excellence throughout the undergraduate program may be eligible for graduation with College Honors. College Honors will be awarded to no more than 15 percent of the total number of students graduating from the college each semester. Students will be considered for the distinction—graduation with College Honors—during the semester in which minimum graduation requirements are fulfilled. Those students who meet each of the following criteria will graduate with College Honors:

1. The student must earn a cumulative grade point average of 3.50/4.00. The cumulative grade point average includes all transfer credit and work completed at UIC.
2. The student must be on the Dean's List for two semesters prior to the semester of graduation.

Graduation with High Honors will be awarded to any student who meets each of the following criteria:

1. The student must be eligible for graduation with college honors.
2. The student must earn a cumulative grade point average of at least 3.75/4.00. The cumulative grade point average includes all transfer credit and work completed at UIC.

Dean's List

Outstanding academic achievement in the College of Education is recognized by inclusion on the Dean's List. Eligibility is based on a 3.50/4.00 term grade point average with a program of 12 semester hours of letter grades in a semester. If any additional course work is taken on a credit/no credit basis, a grade of CR must be earned. A cumulative grade point average of 2.50/4.00 for 60 hours and above as well as clear academic status must be maintained for Dean's List eligibility.

Special Programs and Opportunities

The College of Education offers an optional 5th Year Program in Special Education. Please consult the advisor in OSS, 3145 EPASW, for further information.

Student Organizations

The College of Education encourages all students to participate in the Future Teachers Club. Please consult The Council on Teacher Education (CTE), 3015 EPASW, for further information.

Sample 4-Year Curriculum Plan for Elementary Education Majors

Note: Students interested in a 5-Year Curriculum Plan should consult with their advisor in the College of Education.

Freshman Year

| First Semester | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |

One course from the following:

| | |
|---|-----------|
| ENGL 101, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119. | 3 |
| NATS 101—Physical World | 4 |
| ED 194—Special Topics in Education (UIC math placement test required) | 4 |
| General education concentration course | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|--|-----------|
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| NATS 102—Chemical World | 4 |
| MATH 140—Arithmetic and Algebraic Structures | 4 |
| PSCH 100—Introduction to Psychology | 4 |
| General education concentration course | 3 |
| Total Hours | 18 |

Sophomore Year

| First Semester | Hours |
|---|-------|
| EPSY 255—Child Development and Elementary Education | 3 |

One course from the following:

| | |
|---|-----------|
| ANTH 100, 101, 214; GEOG 100, 101, 151; HIST 106, 109, 110, 141, 161, 177, 241, 242, 277, 278; LALS 101, 102, 105, 109; LING 170. | 3 |
| MATH 141—Algebraic and Geometric Structures | 4 |
| NATS 103—Biological World | 4 |
| NATS 104—Project-Based Seminar in Natural Sciences | 1 |
| General education concentration course | 3 |
| Total Hours | 18 |

| Second Semester | Hours |
|--|-----------|
| ED 257—Foundations of Literacy Learning and Teaching | 3 |
| One of the following HIST courses: | 3 |
| HIST 103—American Civilization to the Nineteenth Century | |
| HIST 104—American Civilization since the Late Nineteenth Century | |
| General education concentration course | 3 |
| General education concentration course | 3 |
| POLS 101—Introduction to Government and Politics | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|--|-----------|
| ED 350—Orchestrating Teaching and Learning I | 4 |
| ED 340—Teaching Language and Literacy in Elementary Schools I | 3 |
| ED 342—Teaching and Learning Mathematics in the Elementary School | 3 |
| ED 345—Multiculturalism, Bilingualism, and Diversity in Elementary Schools | 3 |
| SPED 415—Characteristics of Exceptional Learners | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|---|-----------|
| ED 351—Orchestrating Teaching and Learning II | 4 |
| ED 341—Teaching Language and Literacy in Elementary Schools II | 3 |
| ED 343—Teaching and Learning Science in the Elementary School | 3 |
| ED 344—Teaching and Learning Social Studies and Arts in Elementary School | 3 |
| EPSY 360—Learning, Cognition, and Student Assessment | 2 |
| Total Hours | 15 |

Senior Year

| First Semester | Hours |
|--|-----------|
| ED 450—Composing a Teaching Life I—Student Teaching | 15 |
| ED 352—Technology Integration in Elementary School I | 2 |
| Total Hours | 17 |

| Second Semester | Hours |
|--|-----------|
| ED 451—Composing a Teaching Life II—Elementary School II | 5 |
| ED 353—Technology Integration in Elementary School II | 2 |
| EDPS 361—Social Foundations in Education | 3 |
| SPED 416—Methods of Instruction for Exceptional Learners | 2 |
| Total Hours | 12 |

Secondary Education Program

The University of Illinois at Chicago offers several secondary teacher education programs. Through the College of Liberal Arts and Sciences, the student can study the Teaching of Chemistry, Teaching of English, Teaching of French, Teaching of German, Teaching of History, Teaching of Mathematics, Teaching of Physics, and Teaching of Spanish. Through the College of Architecture and the Arts, the student can major in Art Education. Hence, the programs provide for the development of a major field of study with an emphasis on teaching.

After admission to the University, students who wish to teach at the secondary school level should complete the following phases.

Change of Teaching Major in Student's Home College

Students should see the academic advisor in their major department to fill out a Change of Major Form to declare their intention to major in teaching in their discipline.

This declaration allows students to enroll in ED 200 and ED 210, core education courses required for certification. Admission into the major in the "Teaching of ..." is required prior to enrollment in these courses.

Students must also pass the Illinois Basic Skills Test. Application forms and study guides may be obtained online at <http://www.icts.nesinc.com> or at <http://www.isbe.net/teachers>.

Admission to Candidacy for Teacher Certification

After students have completed 45–60 hours of college-level course work, including specific courses determined by the major department, students may apply for candidacy. Students may not take education course work beyond ED 200 and 210 if they are not accepted into candidacy. Requirements for admission are as follows:

- A cumulative GPA of 2.50/4.00 or greater and a major GPA of at least 2.50/4.00. Some programs have a higher minimum GPA requirement in the major.
- A recorded pass on the Illinois Basic Skills Test.
- A completed application to candidacy form obtained from the Council on Teacher Education.
- A signature of acknowledgement of the Safety and Technical Standards, the Citizenship requirement, and the criminal background policies.
- 2 letters of recommendation.
- A written essay.
- An interview.
- Additional materials may be required by individual programs.

Admission to Education Course Work

To be eligible for SPED 410 and CI 414 (if applicable), candidates must fill out a request in the CTE office. These courses are held for students who have been admitted to candidacy.

Admission to ED 330

To be eligible to take ED 330, candidates must fill out an application the semester before they plan to take it and must have met course and grade requirements. This class should be taken the semester prior to student teaching and be accompanied by the final discipline methods course. All other required course work except student teaching must be completed prior to or during the semester in which candidates take ED 330.

Admission to Student Teaching

To be eligible for student teaching, candidates must meet the following criteria:

1. Completed General Education course work; earned a minimum cumulative GPA of 2.50/4.00 in all course work, including transfer credits; completed professional education requirements with a minimum GPA of 3.00/4.00; and completed course work in their teaching field with a GPA as specified in their program.

2. Completed the minimum number of clock hours of fieldwork specified by the program and as part of the professional education course work.
3. Completed and submitted a Philosophy of Teaching and Learning to the TaskStream Certification Profile.
4. Passed the Illinois Content Area Test in the teaching field if student teaching will occur.
5. Submitted a student teaching application during the spring term of the academic year preceding the student teaching experience.
6. Submitted verification of a negative TB test.* This test must be taken early enough to submit the results with the application (it may take up to four weeks to get the results).
7. Completed the Chicago Public Schools Application and registration process. The application must be accompanied by essays, a resume, and a lesson plan. Once these are approved, candidates complete registration, which includes a criminal background check.*
8. Met any additional requirements as specified within each program.

**Teacher candidates are responsible for bearing the expense of the TB test and the criminal background check.*

Graduation

Candidates who have met requirements for graduation and certification must file a declaration of graduation in their college, according to the policy specified in their college section of the catalog.

To be eligible for graduation, candidates must have done the following:

- Completed student teaching with a grade of B or higher.
- Completed all course work in the teaching area, teaching methods, education methods, and General Education to meet requirements for University graduation and for state certification.
- Met requirements of the undergraduate college in which they are enrolled.

Certification

To become certified, candidates must have done the following:

1. Met all requirements for graduation in their home college.
2. Completed and filed a certification application and any related endorsement requests with the Council on Teacher Education.
3. Passed the Illinois Assessment of Professional Teaching.
4. Completed and submitted a "Philosophy of Teaching and Learning" essay to the TaskStream Certification Profile.
5. Completed and submitted a Teaching and Assessment Event to the TaskStream Certification Profile.
6. Completed and submitted an Exit Survey to the TaskStream Certification Profile.
7. Completed and submitted Technology Survey to the TaskStream Certification Profile.

Course Requirements for Secondary Education Programs

General Education Course Requirements

Students should pursue the General Education course work required for an undergraduate degree in their chosen program of study. For example, those who are pursuing teacher certification in a program within the College of Liberal Arts and Sciences must meet the General Education requirements for that college. When there is a choice of classes a student may take to meet a requirement in a given area, some programs may request that students take a particular class that is more applicable to the teaching profession. Students should work with their advisors to determine which classes they should take to meet the general education requirements.

Professional Education Course Requirements

| Courses | Hours |
|---|-----------|
| ED 200—Education Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction and Evaluation in the Secondary School | 4 |
| CI 414—Foundations of Middle and Secondary School Literacy (or other literacy course as determined by the individual program) | 3 |
| SPED 410—Survey and Characteristics of Exceptional Children | 3 |
| Methods course in the major field of study ^a | 3 |
| Student teaching | 16 |
| Total—Professional Education Course Requirements | 35 |

^a Refer to major department section of the catalog to determine major requirements.

Course Requirements in the Major

Teacher candidates must also complete course work in their major field of study. Because secondary teacher education majors are working toward fulfilling requirements for both the bachelor's degree and the Illinois teaching certificate (grades 6 through 12), it is critical that the candidates seek advising from the academic advisor in the major field of study. Programs may require students who wish to teach in their major field to take particular major field courses that are more suited to teachers than other choices within the major.

Student Teaching Requirement

Note the eligibility requirements listed previously for student teaching in the *Admission to Student Teaching* section. In the semester prior to student teaching, candidates should enroll in ED 330—Curriculum, Instruction, and Evaluation in Secondary Schools and in a methods teaching course in the student's discipline. Candidates must apply for ED 330 the semester before they plan to take the course. Since ED 330 includes more than 60 hours of fieldwork, students are advised to take no more than 6 additional credit hours that semester. ED 330 fieldwork requires a minimum 3-hour block of time daily during the secondary school day. No additional courses or employment should be pursued while student teaching. All students should consult regularly with their advisors and should plan well in advance for these final two semesters in their program.

Application for secondary school student teaching must be made during the spring term of the academic year preceding the student teaching experience. For more information regarding application procedures, contact the Council on Teacher Education, 3015 EPASW. An orientation meeting is held early in the student teaching term by the Council on Teacher Education, program faculty, and staff. During the teaching term, the student attends a weekly seminar held on campus.

Middle School Endorsement

Teacher candidates wishing to teach in the middle grades (5 through 8) should take additional course work, even though the Standard Secondary Certificate (Type 09) states eligibility for teaching in grades 6 through 12. Please note that the State of Illinois is in the process of revising middle school endorsement requirements and additional course work may be required. Be advised that changes may occur without notice and will be effective immediately. Additional information may be obtained from the College of Education Office of Student Services, 3145 EPASW, (312) 996-4532.

Illinois Certification Test Requirements

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must also pass a series of examinations required by the Illinois State Board of Education. The Illinois Basic Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Illinois Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For information on application procedures, contact the Council on Teacher Education located in 3015 EPASW.

Effective March 2003, Illinois "Approved Program Verification" forms and applications for Illinois teaching certificates will no longer be signed based solely on completion of a teacher education program if that program was completed more than three years prior to the verification request. The faculty in relevant colleges and departments will evaluate the records of program completers based on UIC's current program requirements and make recommendations regarding certification.

The Illinois State Board of Education occasionally changes the requirements for certification. For current information, contact the academic advisor in the major field of study or the Council on Teacher Education.

College of Engineering

Dean, Peter Nelson

123 Science and Engineering Offices (SEO)

(312) 996-3463

<http://www.engr.uic.edu>

Administration: Associate Dean—Undergraduate Affairs,
Michael McNallan, mcnallan@uic.edu

Director of Engineering Admissions and Records, James
Muench, jmuench@uic.edu

Student Services: 123 SEO

Academic Advising: 123 SEO (for appointments)

Departments: Bioengineering (BIOE), Chemical
Engineering (CHE), Civil and Materials Engineering
(CME), Computer Science (CS), Electrical and
Computer Engineering (ECE), and Mechanical and
Industrial Engineering (MIE)

Introduction

The College of Engineering offers degree programs in engineering and computer science. These degree programs prepare men and women for one or more of the many career opportunities in the engineering or computer science professions, such as those in design, production, research, development, management, or sales. An engineering or computer science education also prepares a student for further study in medicine, law, business administration, and other areas.

Instruction in the college is complemented by intensive research activity by most of the faculty. Research is directed toward supporting the educational programs of the college, solving contemporary technological problems, and extending the frontiers of scientific knowledge. This continuing research activity helps to insure the integrity and progressive evolution of instructional programs at all levels. In conjunction with their teaching and research, many of the faculty also engage in public service activities in the community and in government on the local, state, and federal levels.

Mission of the College

The mission of the College of Engineering at the University of Illinois at Chicago is to provide the opportunity for each student to become all that he or she is capable of becoming through excellence in education in the three areas of teaching, research, and service. In the area of teaching, the college provides academic excellence to its students through ten Bachelor of Science programs in six departments: Bioengineering; Chemical Engineering; Civil and Materials Engineering; Computer Science; Electrical and Computer Engineering; and Mechanical and Industrial Engineering. With the changing dynamics of society, the college continues to strive for excellence and innovation in both its instructional and research programs. In the area of community service and as part of the University's Great Cities Program related to economic development and environmental concerns, the college is continuously strengthening ties with the industrial community, especially the dynamic region of Illinois.

Undergraduate Study in Engineering

A primary goal of the UIC College of Engineering is to ensure that its students are well prepared for:

1. Practice in the engineering profession;
2. Continued formal education at the graduate level; and
3. Continued education to adapt to evolving technologies and changing markets.

College faculty and administration are continually reevaluating and revising curricula so that engineering and computer science degree programs consistently incorporate the changes that are occurring in technology and society.

The college attracts students and faculty who represent a broad spectrum of nationalities, cultures, races, ages, and genders. Diversity is also reflected in the number and types of employment opportunities available to students. Area corporate partnerships support co-op and internship experiences that are tailored to individual student needs.

Educational Objectives

The UIC College of Engineering offers undergraduate and graduate students opportunities to join faculty in cutting-edge research. In the classroom, students become familiar with the fundamental mathematical and scientific principles that are common to engineering and computer science disciplines, and they learn to apply these principles to current engineering and computer science problems of analysis, design, and experimentation. Through individual and group projects, students make use of current techniques, instruments, equipment, and computers, and gain proficiency in communicating the results of their work. Study in other disciplines provides students with an understanding of the professional ethical responsibilities of practicing engineers. Students also have the opportunity to participate in a number of the many on-campus student chapters of national engineering professional organizations as a way to supplement their classroom experiences.

In the first two years each student will be required to complete courses in mathematics, chemistry and physics (or other science requirements, for computer science majors), and University Writing. Beginning in the second year, the student will start course work in a particular major that represents the technical phase of the student's academic career and constitutes a cohesive program of advanced work in a chosen field. Although the course work in the major becomes progressively specialized in the junior and senior years, each student is also required to take engineering or computer science courses outside of his or her chosen field.

A student must also complete course work in the general fields of humanities and social sciences. Because engineers and computer scientists are no longer narrow specialists, they must recognize the effects of their work on the general welfare of society. The humanities/social sciences phase of their education helps them to become serious contributors to the quality of life. Requirements for the degrees often include free electives that introduce flexibility into the curricula.

Accreditation

Eight undergraduate degree programs of the College of Engineering are accredited by the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; phone (410) 347-7700. Those programs receiving approval by the Engineering Accreditation Commission (EAC) of ABET include bioengineering, chemical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, and mechanical engineering. The Computing Accreditation Commission (CAC) of ABET has accredited the program in computer science. Accreditation has not been sought for two interdisciplinary programs—engineering management and engineering physics.

Degree Requirements

To earn a BS degree from the College of Engineering at UIC, students need to complete University, college, and department degree requirements. University and college degree requirements for all College of Engineering students are outlined below. Students should consult their department section for additional degree requirements.

Semester Hour Requirement (see below)

Course Requirements

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. Students are required to complete a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses for each General Education Core category, students should consult the *General Education* section of the catalog. Information on meeting the General Education requirements for each degree program is provided in the College of Engineering department sections.

General Education Proficiencies—University Writing Requirement

College of Engineering students meet the requirement by achieving a passing grade in English 160 and 161. Credit for English 160 may be earned on the basis of a score of 4–5 on the AP English Language and Composition exam, an ACT English subscore of 27 or more, or an SAT Verbal score of 610 or more. Students should consult the *Registering and Enrolling in Courses at UIC* and *Academic Standing* sections for more information on required scores.

Orientation Course Requirement

All incoming freshmen and transfer students must take an engineering orientation course ENGR 100 or ENGR 189, as appropriate, during the first or second term at UIC. Satisfactory completion of the engineering orientation course is a graduation requirement.

Semester Hour Requirement

| Degree Program | Department | Degree Conferred | Total Hours |
|-------------------------------------|---------------------------------------|------------------------------|-------------|
| Bioengineering | Bioengineering | BS in Bioengineering | 128 |
| Chemical Engineering | Chemical Engineering | BS in Chemical Engineering | 128 |
| Civil Engineering | Civil and Materials Engineering | BS in Civil Engineering | 128 |
| Computer Engineering | Electrical and Computer Engineering | BS in Computer Engineering | 128 |
| Computer Science | Computer Science | BS in Computer Science | 128 |
| Electrical Engineering | Electrical and Computer Engineering | BS in Electrical Engineering | 128 |
| Engineering Management ^a | Mechanical and Industrial Engineering | BS in Engineering Management | 128 |
| Engineering Physics ^b | Electrical and Computer Engineering | BS in Engineering Physics | 128 |
| Industrial Engineering | Mechanical and Industrial Engineering | BS in Industrial Engineering | 128 |
| Mechanical Engineering | Mechanical and Industrial Engineering | BS in Mechanical Engineering | 128 |

^a Offered jointly with the College of Business Administration.

^b Offered jointly with the Department of Physics in the College of Liberal Arts and Sciences.

Recommended First-Year Program

| Courses | Hours |
|---|----------------|
| Engineering Orientation ^a | 0 ^a |
| English 160 and 161 | 6 |
| Chemistry ^b (Computer Science majors may take Biological Sciences or Earth and Environmental Sciences) | 5 |
| Mathematics ^c | 10 |
| Physics (Computer Science majors may take Biological Sciences or Earth and Environmental Sciences) | 4 |
| Engineering/computer course | 3 |
| General Education Core courses | 0–6 |
| Total Hours—First-Year Program | 28–34 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation. However, the hour does count in the calculation of tuition and toward full- or part-time enrollment status and financial aid eligibility. The course must be taken in the first or second term at UIC.

^b The normal chemistry requirement is Chemistry 112—General College Chemistry I for students who pass the placement examination in chemistry. Students who do not pass the examination may be required to take Chemistry 101—Preparatory Chemistry.

^c The beginning mathematics course in the College of Engineering is Mathematics 180—Calculus I for students who pass the mathematics placement examination. Students who do not pass the examination will be placed in specific preparatory mathematics courses by the mathematics department.

Other Requirements

Course Work Limitations

For the degree of Bachelor of Science, a minimum of 128 semester hours acceptable to the College of Engineering is required for graduation. (See individual majors for the specific hours required for graduation.)

Course work that duplicates previous credit does not count toward graduation; no credit is given for a course in which a failing grade is received.

Credit earned in English 070 or 071 or ESL 050, 060, and 108 does not count toward graduation in the college, except in the following way: students may earn 3 semester hours of credit in English 070 or 071 and a waiver of English 160 for the term in which they receive written authorization from the Department of English.

Credit for graduation is not given by the College of Engineering for courses numbered below Chemistry 112,

Physics 141, and Mathematics 180; such preparatory courses cannot be used as nonmajor electives or free electives.

All courses will be used when determining a student's full-time or part-time status; for computing grade point averages (except for 000-level courses); and in determining probation, dismissal, and Dean's List statuses.

Free Elective Credit

Students in some majors must complete 1–6 credit hours in free elective courses to reach 128 hours required for engineering degrees. These hours are in addition to specific types of elective groups (humanities, social science, non-major-rubric, additional math, technical, or area electives). These free elective courses may be technical or nontechnical, but remedial or duplicative courses are not allowed. A maximum of 2 semester hours of free elective credit in kinesiology is allowed. Programs that have such free electives are chemical engineering, computer science, and engineering management.

Grade Point Average (GPA) Requirement

In order to receive a degree from the College of Engineering, a student must present a minimum grade point average of 2.00/4.00 in all work in the major. In addition, the student must satisfy the University requirement of a 2.00/4.00 grade point average in two categories: (1) all work taken at UIC; (2) all work taken at UIC and all other two- and four-year institutions combined.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Enrollment Residence Requirement

Either the first 90 or the last 30 semester hours of degree work must be completed in continuous, uninterrupted enrollment residence at UIC. In addition, at least one-half of the credit hours required in the student's major area of study must be completed at UIC. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement for graduation. Work taken at the Urbana-Champaign or Springfield campuses of the University of Illinois cannot be used to satisfy this requirement. Credit earned through proficiency examinations, including credit earned through the College Level Examination Program (CLEP), UIC extension courses, and Urbana-Champaign correspondence courses does not apply toward nor interrupt the enrollment residence requirement.

Transfer Credit Limitations

The College of Engineering requires that of the 128 semester hours needed for the degree, at least 60 semester hours after attaining junior standing must be taken at UIC or another accredited four-year institution; the university enrollment residence requirement (see above) must also be satisfied. For most transfer students, these requirements mean that additional transfer credits from junior (or community) colleges are severely restricted or not permitted.

Upper-division (300- and 400-level) courses in ABET-accredited engineering or computer science majors can be transferred only from other ABET-accredited engineering or computer science programs. This limits transfer of cred-

its from junior colleges, U.S. vocational or technology programs, and overseas programs to lower-division (100- and 200-level) courses.

Transfer Credit for Continuing Students

Continuing students planning to take non-UIC courses must get prior approval from the College of Engineering.

College Policies

Academic Load

During the fall and spring semesters, a full-time program is 12 to 18 semester hours. More than 18 semester hours is considered an overload and students must seek approval by filing a petition in 123 SEO. For Summer Session 1 (Four Week) and Summer Session 2 (Eight Week), UIC considers a total aggregate of 6 semester hours as the minimum number necessary to constitute full-time enrollment. Students seeking to take more than 9 semester hours during the summer should file a petition in 123 SEO.

Academic Probation and Dismissal Rules

Probation Rules

1. Any student whose UIC cumulative grade point average falls below 2.00/4.00 is placed on 2.25 academic probation. A student on 2.25 probation is required to earn at least one B and no grade less than a C in each ensuing term until both the UIC cumulative grade point average and the total cumulative grade point average are above 2.00/4.00.
2. Any student whose grade point average for any term falls below 2.00/4.00 but whose UIC cumulative grade point average is above 2.00 will be placed on 2.00 academic probation for the following term. The student will return to clear status if a grade point average of at least 2.00 is earned without any grade less than C in the following term.

Dismissal Rules

1. A student on academic probation who does not meet the probationary requirements will be dismissed from the University.
2. A student who fails to make progress toward a degree may be dismissed. Examples of failure to make progress include excessive term deficit points,^a failure to complete required courses, accumulation of excessive number of Incomplete (I) grades, failure to earn credit in any semester, and failure to maintain a 2.00 average in the major discipline.
3. A student may be readmitted after the first dismissal with petition and presentation of above-satisfactory performance in college-level courses taken outside of UIC. The non-UIC work evaluated for readmission may or may not apply towards a UIC degree. However, only in rare cases, a student will be readmitted after the second dismissal.

^a Credit-hour weighted sum of following values: A=+2, B=+1, C=0, D=-1, F=-2.

Change of Course Schedule—Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission

of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program. College of Engineering students must submit a Late Drop Petition Form to the COE Front Office, 123 SEO.

A student who wishes to drop all courses must withdraw from the University by completing a special form and submitting it to the College Office, 123 SEO, by the end of the last business day before final examinations. The grades of W for all courses in the term withdrawn do not count towards the maximum of four allowed late course drops. Student can register normally in the next term.

Changes within a Major

Changes within degree programs are handled through petitions. A General Engineering Petition or Petition for Modification of Major is required when a student wishes to change contents of a major. Petitions often require long lead-times for processing and the College Office, 123 SEO, should be contacted for specific instructions. If approved, the student is sent a notification by mail or fax.

Class Attendance

In case of excessive absences, the course instructor may recommend to the college that a student be dropped from the course. Adverse consequences of such involuntary course drop must be weighed against high probability of failure in the course. Moreover, such involuntary course drops must be within the framework of four allowable late course drops by sixth week in fall or spring (between the third Wednesday of Summer Session 1 and fifth Friday of Summer Session 2).

Course Prerequisites

Some departments verify whether students have listed prerequisites and may drop students who cannot provide satisfactory proof of having completed the prerequisites by first or second week of the term. In other instances, it is students' responsibility to ensure that they have the listed prerequisites. It is difficult to perform satisfactorily in most engineering courses without having the listed prerequisites.

Credit/No Credit Option

Certain types of courses may be taken on the credit/no credit option in the College of Engineering. In this option, a student will be allowed to complete a limited number of courses with a grade of credit (CR) or no credit (NC) instead of a letter grade. Courses below the 200-level, required courses, and essential prerequisite courses cannot be taken as credit/no credit. For detailed information on the college's policy on credit/no credit, the student should inquire in 123 SEO.

Students must apply at their college office no later than the tenth day of the term (first Wednesday of Summer Session 1 or first Friday of Summer Session 2) to have a course designated for credit/no credit grading option.

Declaring a Major

All students entering the College of Engineering must declare a major in order to be assigned a departmental faculty advisor after the first term. Students must declare their majors at the time of entry to the college or by the end of their first term. Students can petition to change their major by completing a form in the College Office, but the petition will not be approved if the intended major is oversubscribed and thus closed.

Double Major, Double Degree, and Second Bachelor's Degree

Double Major

This option is not available in the College of Engineering.

Double Degrees

Double degrees are possible for some College of Engineering students who want to pursue two bachelor's degrees in Engineering concurrently. Students must complete a minimum of 30 additional hours of 300- and 400-level course work for the second engineering degree. Combination of degrees that have substantial overlap is not allowed. Interested students should speak with an advisor and submit a petition to College of Engineering Office, 123 SEO. Double degrees with another college are not permitted.

Second Bachelor's Degree

Students who have already earned a bachelor's degree must apply and be admitted as an undergraduate to the College of Engineering in order to pursue a second bachelor's degree. Students must complete all requirements for the second degree as specified by the college and the major department, including a minimum of 30 additional hours of 300- and 400-level course work beyond those required for the first degree. The UIC enrollment residence requirement must also be met, i.e., the last 30 semester hours for second degree must be taken at UIC. Combination of degrees that have substantial overlap is not allowed.

Graduate-Level Courses for Undergraduate Credit

Many 400-level courses are part of required or elective courses. Students need special permission from the college to take 500-level courses.

Proficiency Examinations

Students with nontransferable college-level credits in Academic Writing, mathematics, sciences, and computer programming may earn credits through proficiency examinations, if such examinations are allowed by the departments offering these courses.

Registration Approval

All incoming freshmen and transfer students need approval of a college advisor before registration for courses. Such approval is typically obtained during the orientation visit to the campus. All continuing students need approval from their faculty advisor before registering for courses.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. Some colleges require students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. Normally, courses with a C grade may not be repeated. Courses with D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college dean. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course is **not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Transferring

Intercollege Transfer Students

Students enrolled in other UIC colleges who wish to transfer to the College of Engineering may apply at any time during the regular semester; see the *Transfer Students from Other Colleges and Universities* section below for specific requirements.

Transfer Students from Other Colleges and Universities

The College of Engineering admits qualified transfer students from accredited institutions. Depending upon space availability, admission preference will be given to individuals who qualify as Illinois residents as determined by the University (see Regulations Governing the Determination of State Residence Status for Admission and Assessment of Student Tuition). Generally 60 semester hours (90 quarter hours) of transfer work must include English, math, and science courses listed below for admission. Exceptional students who have completed most of these listed English, math, and science courses may be admitted even if they have not completed 60 semester hours by the time of entry to the college. The college will consider residents of the state of Illinois who have a transfer grade point average of at least 2.50/4.00 in math/science/technical courses as well as on a cumulative basis. Out-of-state residents must have a minimum transfer GPA (math/science/technical and cumulative) of 2.50/4.00 and international students that of 2.75/4.00 to be considered for admission. Admission criteria may vary for different programs. Meeting the minimum criteria does not guarantee admission due to limited space availability.

All transfer applicants should complete the following course work by the time of entry to the College of Engineering:

1. Academic Writing (two courses).
2. Chemistry, equivalent to Chemistry 112 at UIC. (Computer Science students may substitute Biological Sciences or Earth and Environmental Sciences.)

3. Physics for engineers, emphasizing mechanics, electricity, and magnetism (with calculus as a prerequisite). (Computer Science students may substitute Biological Sciences or Earth and Environmental Sciences.)
4. Mathematics through differential equations.

See the *Admissions* section for application deadline dates and other procedures for transfer students.

Transferring Out of the College

Since procedures for changing colleges differ among the undergraduate colleges, a student should inquire in 123 SEO for proper instructions.

Undergraduate Research in Engineering

Several engineering majors allow undergraduate research within respective engineering departments as technical electives if certain eligibility criteria are met. Prior approval of research topic and scope by a faculty advisor and the director of undergraduate studies is required; special forms are available online and at the college office. Submission of copies of a final report to the department and college offices is also required before undergraduate research credits can be applied for the degree.

Minors

Although a minor is not required, a student may elect to complete one or more minors. The College of Engineering will acknowledge, on a student's transcript, the successful completion of a minor offered by any engineering program in the college for which the student is eligible to enroll and for which the student meets the requirements for the minor listed below. The number of semester hours required for the minor varies by the field of specialization. Minors offered by the College of Engineering include:

| Minor | Department | Hours ^a |
|---------------------------|---------------------------------------|--------------------|
| Bioengineering | Bioengineering | 12 |
| Chemical Engineering | Chemical Engineering | 16–18 |
| Civil Engineering | Civil and Materials Engineering | 18–19 |
| Computer Engineering | Electrical and Computer Engineering | 19 |
| Computer Science | Computer Science | 14–17 |
| Electrical Engineering | Electrical and Computer Engineering | 18 |
| Environmental Engineering | Interdepartmental | 15–19 |
| Industrial Engineering | Mechanical and Industrial Engineering | 12 |
| Information Technology | Computer Science | 12 |
| International Studies | N/A; contact College of Engineering | 18–21 |
| Materials Engineering | Interdepartmental | 14–19 |
| Mechanical Engineering | Mechanical and Industrial Engineering | 16–18 |

^a All engineering minors require prerequisite courses. Please see department sections for information on prerequisite courses associated with each minor.

Requirements for the Minor

See the appropriate engineering program for a detailed description of each minor. At least 9 semester hours in the minor field of specialization must be at the advanced level (200-, 300-, or 400-level courses), and a minimum grade point average of 2.00/4.00 is required. Engineering minors require that at least 9 semester hours be taken from the UIC College of Engineering.

Admission to an Engineering Minor

Admission to a minor in the College of Engineering will not be approved for any student if there is substantial course overlap between the proposed minor and the student's major. For example, students majoring in Computer Science may not minor in Computer Engineering. Engineering students who are interested in completing an engineering minor must submit a request form in 123 SEO and obtain approval.

Engineering Minors for Non-Engineering Students

Nonengineering students will be allowed to complete minor areas of study within engineering if they meet the transfer eligibility criteria at the time of application and so long as space permits. Students must submit a request form in 123 SEO and obtain approval. Nonengineering students must also consult their home colleges about the acceptability and applicability of engineering course credits toward their degrees. Most engineering classes are closed to nonengineering students; those students with approved minors must submit petitions to the college office at the beginning of the term to register for engineering courses needed.

Minor Areas Outside of Engineering for Engineering Students

Engineering majors may complete one or more minors offered by other UIC colleges. Successful completion of a minor outside the College of Engineering will be acknowledged on an engineering student's transcript if certification of completion of the minor is received from the other college by applicable deadlines for the term of graduation. Engineering students must submit a request form in 123 SEO and obtain approval before petitioning to another college. Minors will be approved by the College of Engineering if the requirements for the minor, as defined by the nonengineering department offering the minor, are satisfied. The request for the minor must be approved by both colleges.

Area of Concentration

Some College of Engineering majors offer areas of concentration within the majors by prescribing some or all of technical, nonmajor, and free electives. Completion of an area of concentration is noted on the transcript. On the other hand, engineering minors offer students the opportunity to study an engineering discipline outside of the major; minors generally require additional course work to meet prerequisite and course requirements. Minors are also noted on the transcripts.

Academic Advising

Contact the College Office, 123 SEO, for the names of college advisors and departmental offices for faculty advisors.

Advising Policy

Faculty advisors are available to assist students with the selection of courses after the first term. Students declare a major when they enter the University and are assigned a faculty advisor by the appropriate department. In addition, the College Office for Undergraduate Administration on the first floor of SEO advises newly admitted freshman and transfer students, seniors contemplating graduation, and students facing academic or other difficulties. All continuing students should take advantage of advance advising and advance registration periods to ensure that they can get into the classes of their choice.

Academic Honors

University Honors

At graduation, students are awarded University Honors for academic distinction. Such honors are designated on the diplomas as Cum laude, Magna cum laude, or Summa cum laude. The minimum cumulative grade point average needed to qualify for University Honors is 3.50/4.00 in all UIC course work and in all work offered for the degree.

Cum Laude is awarded to a student who earns at least a 3.50 cumulative grade point average; Magna cum laude is awarded to a student who earns at least a 3.75 cumulative grade point average; Summa cum laude is awarded to a student who earns at least a 3.85 cumulative grade point average. All transfer work accepted for the degree is included in the determination of grade point averages. The grades for military science courses are excluded unless a student completes the four-year military science program, in which case 5 semester hours of advanced credit are included in the determination of averages for University Honors.

The Bell Honors Award is given in recognition of attaining the highest grade point average in each graduating class. At the Engineering Convocation, award recipients are recognized and given a certificate acknowledging their scholastic attainments.

Dean's List

Any student who achieves a grade point average of 3.50/4.00 with 12 or more graded hours in any semester is placed on the Dean's List.

Special Programs and Opportunities

Cooperative Engineering Education Program

The College of Engineering offers a cooperative engineering education program. It is a coordinated alternating work and study program that provides an opportunity for the undergraduate student not only to acquire academic knowledge but also to obtain work experience in the chosen area of study. Interested students are invited to interview representatives of participating companies during the sophomore year. The first work session usually starts during the summer following the sophomore year. Further information on the program is available in 820 SEO.

The Minority Engineering Recruitment and Retention Program (MERRP)

The Minority Engineering Recruitment and Retention Program promotes academic excellence among minority students of engineering at the University of Illinois at Chicago. Specifically, the program offers structured and individual academic support programs for African Americans, Hispanics, and other minorities currently underrepresented in the engineering profession. By combining personal and academic support with opportunities and incentives, the program seeks to increase the number of minority students who receive undergraduate and graduate degrees from the College of Engineering. Further information may be obtained by calling (312) 996-2201.

Student Organizations

During their early years in the college, students receive information about the many professional engineering societies. Each society has an official representative among the college faculty. Students are strongly advised to join at least one professional society closely affiliated with their career interests. Professional society chapters include those of AIAA, AIChE, ASCE, ASME, ACM, BMES, IEEE, IEEE-CS, IIE, SAE, and SME. Honor society chapters

include those of Alpha Eta Mu Beta, Eta Kappa Nu, Pi Tau Sigma, and Tau Beta Pi. Other society chapters include those of NSBE, SHPE, and SWE. Engineering Council (EC) is an umbrella organization in the college that coordinates some of the activities of these society chapters.

DEPARTMENT OF BIOENGINEERING

218 Science and Engineering Offices (SEO)
(312) 996-2335
bioe@uic.edu
<http://www.uic.edu/depts/bioe/>

Administration: Department Head, Richard L. Magin
Director of Undergraduate Studies, John Hetling
Student Services: 123 SEO

Academic Advisors: Professors Michael Cho, Yang Dai,
David Eddington, John Hetling, Jie Liang, Andreas
Linninger, Hui Lu, Ali Mansoori, William O'Neill,
James Patton, Patrick Rousche, Richard Magin, and
Christos Takoudis.

Accreditation

The Department of Bioengineering offers a program of study leading to the degree of Bachelor of Science in Bioengineering that is accredited by the Accreditation Board for Engineering and Technology <http://www.abet.org/>.

BS in Bioengineering

Bioengineering is a field of engineering science that develops and applies quantitative analysis and design to living systems. Biological systems are interesting, efficient and successful, but also highly complex; they are dynamic, nonlinear, self-repairing, and yet programmed to terminate. The classic engineering approach of measure-and-model must be carefully recast to deal with the complex nature of living systems, requiring bioengineers to balance analytical rigor with innovation.

Bioengineers are uniquely qualified to work at the interface between living and nonliving systems, enhancing our ability to repair or replace physiological substances or processes as needed in healthcare applications. Potential applications include creating engineered bone replacements, optimizing bionic implants to treat blindness, and the design of molecules as new therapeutic drugs. Training in bioengineering prepares students for graduate school or industry, and is an excellent preparation for professional programs (medicine, dentistry, nursing, pharmacy). Exciting career opportunities exist for bioengineers at the BS level in biotechnology, pharmaceutical and medical device industries, in hospitals, federal labs, and environmental agencies.

The department faculty routinely includes undergraduate students in world-class bioengineering research programs, and maintains strong interactions with faculty in the Colleges of Medicine, Dentistry and Pharmacy, the Department of Biological Sciences, and other engineering disciplines. The undergraduate curriculum includes rigorous training in bioengineering fundamentals, complemented by significant course work in physiology, mathematics, chemistry and physics. Each student must complete a program of required core courses and select an individualized course track in one specialized area (neural engineering, cell and tissue engineering, or bioinformatics) best suited to the student's interests. The department offers elective courses in medical product development and technology transfer to help prepare students for launching start-up companies or careers in industry or consulting. An accelerated BS/MS track is available; consult the director of undergraduate studies for further information.

The department mission statement and the educational objectives for the Bachelor of Science in Bioengineering can be found at the departmental Web site <http://www.uic.edu/depts/bioe/>.

Degree Requirements

To earn a Bachelor of Science in Bioengineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Bioengineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Bioengineering Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 69–71 |
| Required Engineering Courses | 28 |
| Selective Engineering Courses | 20–23 |
| Bioengineering Concentration Area Electives | 11 |
| Total Hours—BS in Bioengineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|--------------|
| CHEM 112—General College Chemistry I ^a | 5 |
| CHEM 114—General College Chemistry II ^a | 5 |
| PHYS 141—General Physics I (Mechanics) ^a | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^a | 4 |
| Choose one from the following: | 3–4 |
| PHYS 244—General Physics III (Modern Physics) (3) | |
| PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) (4) | |
| MATH 180—Calculus I ^a | 5 |
| MATH 181—Calculus II ^a | 5 |
| MATH 210—Calculus III ^a | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Context | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^b | 3 |
| Understanding the Creative Arts course ^b | 3 |
| Understanding the Individual and Society course ^b | 3 |
| Understanding the Past course ^b | 3 |
| Understanding U.S. Society course ^b | 3 |
| BIOS 100—Biology of Cells and Organisms ^a | 5 |
| Choose one from the following: | 3 |
| BIOS 220—Mendelian and Molecular Genetics (3) | |
| BIOS 222—Cell Biology (3) | |
| BIOS 240—Homeostasis: The Physiology of Plants and Animals (3) | |
| BIOS 286—Biology of the Brain (3) | |
| BIOS 352—Introductory Biochemistry (3) | |
| Choose one from the following: | 3–4 |
| BIOS 430—Evolution (4) | |
| BIOS 443—Animal Physiological Systems (4) | |
| BIOS 484—Neuroscience I (3) | |
| BIOS 485—Neuroscience II (3) | |
| Total Hours—Nonengineering and General Education Requirements | 69–71 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b Students should consult the General Education section of the catalog for a list of courses in this category.

Required Engineering Courses

| Courses | Hours |
|---|-----------|
| BIOE 101—Introduction to Bioengineering | 2 |
| BIOE 240—Modeling Physiological Data and Systems | 3 |
| BIOE 250—Clinical Problems in Bioengineering | 3 |
| CME 260—Properties of Materials | 3 |
| BIOE 339—Biostatistics | 3 |
| BIOE 396—Senior Design I | 3 |
| BIOE 397—Senior Design II | 3 |
| BIOE 430—Bioinstrumentation and Measurements I | 3 |
| BIOE 431—Bioinstrumentation and Measurements I Laboratory | 2 |
| BIOE 460—Materials in Bioengineering | 3 |
| Total Hours—Required Engineering Courses | 28 |

Selective Engineering Courses

| Courses | Hours |
|--|----------------|
| Choose one from the following: | 0 ^a |
| ENGR 100—Orientation (0) ^a | |
| ENGR 189—Minority Engineering Freshman and Transfer Student Orientation (0) ^a | |
| Choose one from the following: | 3–4 |
| ECE 115—Introduction to Electrical and Computer Engineering | |
| ECE 210—Electrical Circuit Analysis (3) | |
| ECE 225—Circuit Analysis (4) | |
| Choose one from the following: | 3–4 |
| CS 107—Introduction to Programming (4) | |
| CS 108—Fortran Programming for Engineers (3) | |
| CS 109—C/C++ Programming for Engineers with MatLab (3) | |
| Choose one from the following: | 3–4 |
| BIOE 325—Biotransport (3) | |
| ME 211—Fluid Mechanics (4) | |
| CS 201—Data Structures and Discrete Mathematics (4) | |
| CHE 311—Transport Phenomena I (3) | |
| Choose one from the following: | 3 |
| BIOE 310—Biological Systems Analysis (3) | |
| ECE 310—Discrete and Continuous Signals and Systems (3) | |
| ME 312—Dynamic Systems and Control (3) | |
| Choose one from the following: | 3 |
| BIOE 205—Bioengineering Thermodynamics (3) | |
| CHE 201—Introduction to Thermodynamics (3) | |
| ME 205—Introduction to Thermodynamics (3) | |
| Choose one from the following: | 3 |
| BIOE 455—Introduction to Cell and Tissue Engineering (3) | |
| BIOE 475—Neural Engineering I (3) | |
| BIOE 480—Introduction to Bioinformatics (3) | |
| Choose one from the following: | 2 |
| BIOE 456—Cell and Tissue Engineering Laboratory (2) | |
| BIOE 476—Neural Engineering I Laboratory (2) | |
| BIOE 481—Bioinformatics Laboratory (2) | |
| Total Hours—Selective Engineering Courses | 20–23 |

^a ENGR 100 and 189 are one-semester-hour courses, but the hour does not count toward the total hours required for graduation.

Bioengineering Concentration Area Electives

| Courses | Hours |
|--|-------|
| These courses are to be selected in consultation with the advisor, must relate to each other in such a way as to define an area of concentration, and are subject to the following restrictions: | |
| 1. A minimum of 3 hours must be upper-division (300- or 400-level) bioengineering or other engineering courses. | 11 |
| 2. Nonengineering courses may be used only if they can be justified and prior approval is obtained from the advisor. | |
| 3. A maximum of 3 hours of BIOE 398 may be applied as concentration area elective hours. | |
| 4. A maximum of 4 hours from the following courses may be applied as concentration area elective hours: BIOE 402, BIOE 406, BIOE 408, ENGR 400, ENGR 404, and ENGR 420. | |
| 5. The following Web-based courses may not be applied as concentration area electives: ENGR 401, ENGR 402, ENGR 403, and ENGR 410. | |

Total Hours—Bioengineering Concentration Area Electives 11

Sample Course Schedule**Freshman Year**

| First Semester | Hours |
|--|----------------|
| MATH 180—Calculus I | 5 |
| ENGR 160—Academic Writing I: Writing for Academic and Public Content | 3 |
| BIOS 100—Biology of Cells and Organisms | 5 |
| BIOE 101—Introduction to Bioengineering | 2 |
| Total Hours | 15 |
| Second Semester | Hours |
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CHEM 112—General College Chemistry I | 5 |
| ENGR 100—Orientation | 0 ^a |
| Total Hours | 17 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| BIOE 240—Models of Physiological Data and Systems | 3 |
| CHEM 114—General College Chemistry II | 5 |
| BIOS 286—Biology of the Brain | 3 |
| Total Hours | 18 |
| Second Semester | Hours |
| MATH 220—Introduction to Differential Equations | 3 |
| BIOE 250—Clinical Problems in Bioengineering | 3 |
| ECE 210—Electrical Circuit Analysis | 3 |
| CME 260—Properties of Materials | 3 |
| CS 108—Fortran Programming for Engineers | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|---|-----------|
| BIOE 339—Biostatistics I | 3 |
| BIOE 325—Biotransport | 3 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| BIOE 310—Biological Systems Analysis | 3 |
| BIOS 484—Neuroscience I | 3 |
| Total Hours | 15 |

| Second Semester | Hours |
|---|-----------|
| BIOE 205—Bioengineering Thermodynamics | 3 |
| ECE 430—Bioinstrumentation and Measurements I | 3 |
| BIOE 431—Bioinstrumentation and Measurements I Laboratory | 2 |
| Concentration Area Electives | 6 |
| General Education Core course | 3 |
| Total Hours | 17 |

Senior Year

| First Semester | Hours |
|--------------------------------------|-----------|
| BIOE 460—Materials in Bioengineering | 3 |
| BIOE 396—Senior Design I | 3 |
| Concentration Area Elective | 3 |
| General Education Core courses | 6 |
| Total Hours | 15 |

| Second Semester | Hours |
|--|-----------|
| BIOE 397—Senior Design II | 3 |
| BIOE 475—Neural Engineering I | 3 |
| BIOE 476—Neural Engineering I Laboratory | 2 |
| Concentration Area Elective | 2 |
| General Education Core courses | 6 |
| Total Hours | 16 |

Minor in Bioengineering

For the minor, 12 semester hours are required, excluding prerequisite courses. Students outside the Department of Bioengineering who wish to minor in Bioengineering must complete the following:

| Prerequisite Courses—Bioengineering Minor | Hours |
|---|-------|
| BIOS 100—Biology of Cells and Organisms (or higher) | 5 |
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |

Minimum Total Hours—Prerequisites for Bioengineering Minor 29

| Required Courses—Bioengineering Minor | Hours |
|--|-------|
| BIOE 101—Introduction to Bioengineering | 2 |
| BIOE 240—Modeling Physiological Data and Systems | 3 |

Choose one from the following (prerequisites vary): 3

| |
|--|
| BIOE 415—Biomechanics (3) |
| BIOE 421—Biomedical Imaging (3) |
| BIOE 430—Bioinstrumentation and Measurements I (3) |
| BIOE 432—Bioinstrumentation and Measurements II (3) |
| BIOE 439—Biostatistics (3) |
| BIOE 455—Introduction to Cell and Tissue Engineering (3) |

| |
|--|
| BIOE 460—Materials in Bioengineering (3) |
| BIOE 475—Neural Engineering I: Introduction to Hybrid Neural Systems (3) |
| BIOE 480—Introduction to Bioinformatics (3) |

Four additional hours of 400-level BIOE courses, which may be chosen from the list above (additional prerequisites may apply) **4**

Total Hours—Required Courses for Bioengineering Minor 12

DEPARTMENT OF CHEMICAL ENGINEERING

202 Chemical Engineering Building (CEB)
(312) 996-3424

kmilla@uic.edu

<http://www.uic.edu/depts/chme>

Administration: Head, Dr. Sohail Murad

Director of Undergraduate Studies, Dr. Ludwig C. Nitsche

Student Services: Graduate/Undergraduate Program

Coordinator, Karen Milla, kmilla@uic.edu

Academic Advisors: Professors Akpa, Liu, Meyer, Murad, Nitsche, Regalbuto, Turian, and Wedgewood.

BS in Chemical Engineering

In the Chemical Engineering curriculum, students learn to apply chemistry, physics, and mathematics to the industrial-scale production of chemicals, including petroleum products, polymers, pharmaceuticals, electronic devices, and foods. This program also explores chemical engineering applications in environmental protection, waste treatment, the creation of alternative energy sources, and other frontiers, such as microelectronic materials and nanotechnology.

The BS in Chemical Engineering program offers expertise in a wide variety of areas, including thermodynamics, separation processes, transport phenomena, reactor design, combustion, and process control. Students may use elective courses to specialize in these and other areas. The program's goal is to prepare students for careers in industry or government, and for further study at the graduate level. As the only chemical engineering department at a public university in the Chicago metropolitan area, this program provides unique opportunities for students to interact with world-class industries through research projects and internship programs.

Degree Requirements

To earn a Bachelor of Science in Chemical Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Chemical Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Chemical Engineering Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 74 |
| Required in the College of Engineering | 45 |
| Technical Elective | 3 |
| Electives outside the Major Rubric | 6 |
| Total Hours—BS in Chemical Engineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations I | 3 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| CHEM 112—General College Chemistry I ^b | 5 |
| CHEM 114—General College Chemistry II ^b | 5 |
| CHEM 222—Analytical Chemistry | 4 |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 342—Physical Chemistry I | 3 |
| CHEM 346—Physical Chemistry II | 3 |
| Total Hours—Nonengineering and General Education Requirements | 74 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CHE 201—Introduction to Thermodynamics | 3 |
| CHE 210—Material and Energy Balances | 4 |
| CHE 301—Chemical Engineering: Thermodynamics | 3 |
| CHE 311—Transport Phenomena I | 3 |
| CHE 312—Transport Phenomena II | 3 |
| CHE 313—Transport Phenomena III | 3 |
| CHE 321—Chemical Reaction Engineering | 3 |
| CHE 341—Chemical Process Control | 3 |
| CHE 381—Chemical Engineering Laboratory I | 2 |
| CHE 382—Chemical Engineering Laboratory II | 2 |
| CHE 396—Senior Design I | 4 |
| CHE 397—Senior Design II | 3 |
| CME 260—Properties of Materials | 3 |
| ECE 210—Electrical Circuit Analysis | 3 |
| CHE 499—Professional Development Seminar | 0 |
| Choose one of the following courses: | 3 |
| CS 108—Fortran Programming for Engineers with MatLab (3) | |
| CS 109—C/C++ Programming for Engineers with MatLab (3) | |
| Total Hours—Required in the College of Engineering | 45 |

^a ENGR 100 is one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Elective

| Courses | Hours |
|--|----------|
| One technical elective to be chosen from the following list of design-oriented courses:^a | 3 |
| CHE 392—Undergraduate Research (3) ^b | |
| CHE 410—Transport Phenomena (3) | |
| CHE 413—Introduction to Flow in Porous Media (3) | |
| CHE 421—Combustion Engineering (3) | |
| CHE 422—Biochemical Engineering (3) | |
| CHE 423—Catalytic Reaction Engineering (3) | |
| CHE 431—Numerical Methods in Chemical Engineering (3) | |
| CHE 438—Computational Molecular Modeling (3) | |
| CHE 440—Non-Newtonian Fluids (3) | |
| CHE 441—Computer Applications in Chemical Engineering (3) | |
| CHE 445—Mathematical Methods in Chemical Engineering (3) | |
| CHE 450—Air Pollution Engineering (4) | |
| CHE 456—Fundamentals and Design of Microelectronics Processes (3) | |
| CHE 494—Selected Topics in Chemical Engineering (3) | |
| Total Hours—Technical Elective | 3 |

^a Possible technical elective credit for a 400-level CHE course not listed above will require departmental approval by petition to the Undergraduate Committee.

^b An appropriate design-related research project may be selected with the approval of the Department of Chemical Engineering.

Electives outside the Major Rubric

| Courses | Hours |
|---|----------|
| Electives outside the CHE Rubric | 6 |
| Total Hours—Electives outside the Major Rubric | 6 |

Sample Course Schedule**Freshman Year**

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 16 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CHEM 114—General College Chemistry II | 5 |
| Total Hours | 17 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| CS 108—Fortran Programming for Engineers with MatLab | 3 |
| OR | |
| CS 109—C/C++ Programming for Engineers with MatLab | 3 |
| CHEM 232—Organic Chemistry I | 4 |
| CHE 201—Introduction to Thermodynamics | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|---|-----------|
| MATH 220—Introduction to Differential Equations | 3 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 233—Organic Chemistry Lab I | 1 |
| CHE 210—Material and Energy Balances | 4 |
| ECE 210—Electrical Circuit Analysis | 3 |
| CME 260—Properties of Materials | 3 |
| Total Hours | 18 |

Junior Year

| First Semester | Hours |
|---|-----------|
| CHEM 342—Physical Chemistry I | 3 |
| CHE 301—Chemical Engineering Thermodynamics | 3 |
| CHE 311—Transport Phenomena I | 3 |
| CHEM 222—Analytical Chemistry | 4 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|---------------------------------------|-----------|
| CHEM 346—Physical Chemistry II | 3 |
| CHE 312—Transport Phenomena II | 3 |
| CHE 313—Transport Phenomena III | 3 |
| CHE 321—Chemical Reaction Engineering | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Senior Year

| First Semester | Hours |
|---|-----------|
| CHE 381—Chemical Engineering Laboratory I | 2 |
| CHE 396—Senior Design I | 4 |
| CHE design elective—Selected from CHE 410, 413, 421, 422, 423, 431, 438, 440, 441, 445, 450, 456, 494, or 392 (departmental approval is required for CHE 392) | 3 |
| Elective outside the Major Rubric | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Second Semester | Hours |
|--|-----------|
| CHE 382—Chemical Engineering Laboratory II | 2 |
| CHE 341—Chemical Process Control | 3 |
| CHE 397—Senior Design II | 3 |
| CHE 499—Professional Development Seminar | 0 |
| Elective outside the Major Rubric | 3 |
| General Education Core course | 3 |
| Total Hours | 14 |

BS in Chemical Engineering—Biochemical Engineering Concentration

Students are required to complete 9–10 semester hours in elective courses by choosing 3–4 courses from the following list:

| Required Courses—Biochemical Engineering Option | Hours |
|--|------------|
| One technical elective from Chemical Engineering: | |
| CHE 422—Biochemical Engineering | 3 |
| Two electives in nonmajor rubric category from among the following: | 5–7 |
| BIOS 350—General Microbiology (3) | |
| BIOS 351—Microbiology Laboratory (2) | |
| CHEM 352—Introductory Biochemistry (3) | |
| CHEM 452—Biochemistry I (4) | |

Free elective (if needed) 0–1

Total Hours—Required Courses Biochemical Engineering Concentration^a **9–10**

^a Due to prerequisites for the concentration, students may require more than the minimum 128 semester hours for the degree.

Minor in Chemical Engineering

For the minor, 16–18 semester hours are required, excluding prerequisite courses. Students outside the Department of Chemical Engineering who wish to minor in Chemical Engineering must complete the following:

Prerequisite Courses—Chemical Engineering Minor **Hours**

Choose one of the following courses: 5
 CHEM 112—General College Chemistry I (5)
 CHEM 116—Honors General Chemistry I (5)

CHEM 342—Physical Chemistry I 3

Choose one of the following courses: 3
 CS 108—Fortran Programming for Engineers with MATLAB (3)
 CS 109—C/C++ Programming for Engineers with MATLAB (3)

MATH 180—Calculus I 5

MATH 181—Calculus II 5

MATH 210—Calculus III 3

MATH 220—Introduction to Differential Equations 3

PHYS 141—General Physics I (Mechanics) 4

PHYS 142—General Physics II (Electricity and Magnetism) 4

Total Hours—Prerequisites for Chemical Engineering Minor **35**

Required Courses—Chemical Engineering Minor **Hours**

CHE 210—Material and Energy Balances 4

CHE 301—Chemical Engineering Thermodynamics 3

CHE 321—Chemical Reaction Engineering 3

Choose one of the following courses: 3–4
 CHE 311—Transport Phenomena I (3)
 ME 211—Fluid Mechanics I (4)

Choose one of the following courses: 3–4
 CHE 312—Transport Phenomena II (3)
 ME 321—Heat Transfer (4)
 CHE 313—Transport Phenomena III (3)

Total Hours—Required Courses for Chemical Engineering Minor **16–18**

DEPARTMENT OF CIVIL AND MATERIALS ENGINEERING

2095 Engineering Research Facility (ERF)

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Administration: Head, Farhad Ansari

Director of Undergraduate Studies, Karl Rockne

BS in Civil Engineering

Civil engineering is a broadly based discipline that encompasses many specialties. The civil engineering curriculum provides students with a strong background in engineering and applied sciences.

Civil Engineering Program Objectives

The operational goals of the Civil Engineering Program are to graduate civil engineers who have the fundamental knowledge and modern tools necessary for civil engineering practice in industry and government in the following areas of specialization: environmental and water resources

engineering, geotechnical engineering, structural engineering, and transportation engineering; can apply their knowledge and skills to formulate and solve civil engineering problems, both well-defined and ill-defined; are sufficiently proficient in their areas of specialization to achieve professional licensure in civil engineering, and in structural engineering, if desired, in view of the special role of civil engineers in the design and operation of public works and public buildings; are prepared and motivated to pursue graduate study, and are cognizant of the role of basic and applied research in civil engineering; understand the role and importance of effective communication in working effectively in multidisciplinary teams and have the leadership potential to become team leaders; appreciate and understand their ethical, professional, and community responsibilities to society. A majority of graduates from the department who enter the engineering profession should pass the Principles and Practice of Engineering Examination (PE) five years after graduation. Those who are interested in practicing structural engineering in Illinois should also pass the Illinois Structural Engineering Examination (SE) in five to ten years.

Civil Engineering Program Outcomes

Graduates of the Civil Engineering Program will be able to: apply knowledge of mathematics and science in engineering problems; design and conduct experiments; analyze and interpret data; design civil engineering systems; function effectively in multidisciplinary design teams; identify and formulate engineering problems; understand their ethical and professional responsibilities; recognize the importance and need to engage in lifelong learning; understand the societal and global impact of engineering solutions; comprehend the significance of contemporary issues; communicate their engineering solutions in a professional and effective manner; use techniques, skills, and modern engineering tools for efficient practice of civil engineering. A majority of the graduates should pass the Fundamentals of Engineering Examination (FE) upon graduation.

Degree Requirements

To earn a Bachelor of Science in Civil Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Civil and Materials Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

All students must take the Fundamentals of Engineering Examination (FE Exam) by graduation.

| BS in Civil Engineering Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 50 |
| Required in the College of Engineering | 66 |
| Technical Electives | 9 |
| Electives outside the Major Rubric | 3 |
| Total Hours—BS in Civil Engineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |

| | |
|--|-----------|
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations I | 3 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| CHEM 112—General College Chemistry I ^b | 5 |
| Total Hours—Nonengineering and General Education Requirements | 50 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CS 109—C++ Programming for Engineers with MatLab | 3 |
| CME 201—Statics | 3 |
| CME 203—Strength of Materials | 3 |
| CME 205—Structural Analysis I | 3 |
| CME 211—Fluid Mechanics and Hydraulics | 3 |
| CME 216—Introduction to Environmental Engineering | 3 |
| CME 260—Properties of Materials | 3 |
| CME 300—Composition and Properties of Concrete | 2 |
| CME 301—Behavior and Design of Metal Structures | 3 |
| CME 302—Transportation Engineering | 3 |
| CME 310—Design of Reinforced Concrete Structures | 3 |
| CME 311—Water Resources Engineering | 3 |
| CME 315—Soil Mechanics and Laboratory | 4 |
| CME 396—Senior Design I | 3 |
| CME 397—Senior Design II | 3 |
| CME 402—Geometric Design of Highway Facilities | 3 |
| CME 405—Foundation Analysis and Design | 3 |
| CME 434—Finite Element Analysis I | 3 |
| IE 201—Engineering Economy | 3 |
| ME 210—Engineering Dynamics | 3 |
| ME 250—Engineering Graphics and Design | 3 |
| Choose one of the following courses: | 3 |
| ECE 210—Electrical Circuit Analysis (3) | |
| ME 205—Introduction to Thermodynamics (3) | |
| Total Hours—Required in the College of Engineering | 66 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Electives

| Courses | Hours |
|--|----------|
| At least two courses (6 hours) to be chosen from the following list to strengthen the design content: | 6 |
| CME 400—Advanced Design of Reinforced Concrete (3) | |
| CME 401—Advanced Design of Metal Structures (3) | |
| CME 403—Hydraulic Design (3) | |
| CME 406—Bridge Design (3) | |
| CME 408—Traffic Engineering and Design (3) | |
| CME 409—Structural Analysis II (3) | |
| CME 410—Design of Prestressed Concrete Structures (3) | |
| CME 415—Environmental Geotechnology (3) | |
| CME 421—Water Treatment Design (3) | |

| | |
|--|----------|
| CME 422—Wastewater Treatment Design (3) | |
| CME 425—Environmental Remediation Engineering (3) | |
| CME 427—Engineering Hydrology (3) | |
| CME 428—Groundwater Hydraulics and Contaminant Transport Modeling (3) | |
| CME 454—Structural Analysis and Design of Tall Buildings (3) | |
| Three additional hours to be selected from any 400-level CME courses, including those listed above | 3 |
| Total Hours—Technical Electives | 9 |

Note: Students who are interested in taking the Illinois Structural Engineering Licensure Examination must take two courses in the structural design area. This statement is not a degree requirement and the availability of the structural design courses varies from time to time.

Electives outside the Major Rubric

| Courses | Hours |
|---|----------|
| Electives outside the CME Rubric | 3 |
| Total—Electives outside the Major Rubric | 3 |

Sample Course Schedule

Freshman Year

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 16 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| ME 250—Engineering Graphics and Design | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| CS 108—Fortran Programming for Engineers | 3 |
| CME 201—Statics | 3 |
| IE 201—Engineering Economy | 3 |
| Total Hours | 16 |
| Second Semester | Hours |
| MATH 220—Introduction to Differential Equations | 3 |
| ME 205—Introduction to Thermodynamics | |
| OR | |
| ECE 210—Electrical Circuit Analysis | 3 |
| CME 203—Strength of Materials | 3 |
| ME 210—Engineering Dynamics | 3 |
| CME 211—Fluid Mechanics and Hydraulics | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|---------------------------------------|-----------|
| CME 205—Structural Analysis I | 3 |
| CME 216—Environmental Engineering | 3 |
| CME 302—Transportation Engineering | 3 |
| CME 315—Soil Mechanics and Laboratory | 4 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|--|-----------|
| CME 310—Design of Reinforced Concrete Structures | 3 |
| CME 311—Water Resources Engineering | 3 |
| CME Technical Elective I | 3 |
| CME 260—Properties of Materials | 3 |
| CME 300—Composition and Properties of Concrete | 2 |
| General Education Core course | 3 |
| Total Hours | 17 |

Senior Year

| First Semester | Hours |
|---|-----------|
| CME 301—Behavior and Design of Metal Structures | 3 |
| CME 396—Senior Design I | 3 |
| CME 434—Finite Element Analysis I | 3 |
| CME Technical Elective II | 3 |
| Elective outside the Major Rubric | 3 |
| Total Hours | 15 |

| Second Semester | Hours |
|--|-----------|
| CME 397—Senior Design II | 3 |
| CME 402—Geometric Design of Highway Facilities | 3 |
| CME Technical Elective III | 3 |
| CME 405—Foundation Analysis and Design | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Minor in Civil Engineering

For the minor, 18–19 semester hours are required, excluding prerequisite courses. Students outside the Department of Civil and Materials Engineering who wish to minor in Civil Engineering must complete the following:

| Prerequisite Courses—Civil Engineering Minor | Hours |
|--|-----------|
| CHEM 112—General College Chemistry I | 5 |
| CS 108—Fortran Programming for Engineers | 3 |
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| CME 201—Statics | 3 |
| Total Hours—Prerequisites for Civil Engineering Minor | 31 |

| Required Courses—Civil Engineering Minor | Hours |
|--|-------|
| CME 203—Strength of Materials | 3 |
| CME 211—Fluid Mechanics and Hydraulics | 3 |

| | |
|---|-------------|
| Three courses from the following list: | 9–10 |
| CME 205—Structural Analysis I (3) | |
| CME 216—Environmental Engineering (3) | |
| CME 260—Properties of Materials (3) | |
| CME 302—Transportation Engineering (3) | |
| CME 311—Water Resources Engineering (3) | |
| CME 315—Soil Mechanics and Laboratory (4) | |

One course from the following list:

- CME 301—Behavior and Design of Metal Structures (3)
 CME 310—Design of Reinforced Concrete Structures (3)
 CME 402—Geometric Design of Highway Facilities (3)
 CME 405—Foundation Analysis and Design (3)
 CME 422—Wastewater Treatment Design (3)

Total Hours—Required Courses for Civil Engineering Minor

18–19

DEPARTMENT OF COMPUTER SCIENCE

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BS in Computer Science

Computer science is a relatively young but extremely rich and diverse discipline. At one end of the spectrum, computer science may be viewed as the formal study of what can be computed and what resources are required for computation. At the other end of the spectrum, computer science may be seen as the application of human resources, software, and, of course, computers to solve computational problems relating to society's and individuals' needs.

A well-trained computer scientist requires knowledge of both ends of this spectrum—and several points in between. The Computer Science program in the Department of Computer Science is intended to provide that broad background. Along with a strong theoretical component, the Computer Science program places special emphasis on the development of applied skills in design, implementation, and validation of computer systems. In our experience, industry and graduate programs alike value—above all—people who can solve real problems, and who come prepared to use the tools of their trade.

All students acquire a common background in the fundamental areas of computer science: computer systems, organization and architecture, algorithms and data structures, principles of software design, elements of the theory of computation, and operating systems. In addition, students obtain specialized backgrounds through the selection of five technical elective courses in computer science. Required and elective courses in the sciences and mathematics, along with additional courses in writing, humanities, social sciences, and the arts give students the opportunity to expand their horizons and to prepare for multidisciplinary careers.

There are very few areas in modern society untouched by computer science. Computer science is present in everything from healthcare, telecommunications, and entertainment, to transportation, education, and defense. The result of this diversity is that a computer scientist must be capable of working with people outside his or her field. In support of this, the Computer Science program provides its students with a well-rounded education requiring significant course work outside the Department of Computer Science, placing a strong emphasis on writing and communication skills.

Given the breadth and diversity of the computer science discipline, the Department of Computer Science also offers a Computer Systems Concentration within the BS in Computer Science program. The Computer Systems

Concentration represents a subspecialty that provides more emphasis on understanding and designing computer hardware. The student continues to learn the fundamental areas of computer science, including programming, data structures, discrete math, algorithms, formal languages, architecture, and operating systems. Unlike traditional computer science, however, the student also studies low-level circuit analysis and high-level system design, and has the option to take additional hardware-oriented courses. The result is a unique blend of computer science and computer engineering.

The Department of Computer Science also offers a Software Engineering Concentration within the BS in Computer Science program. The Software Engineering Concentration emphasizes the knowledge and skills needed to begin a professional practice in software engineering. The concentration continues to cover in depth the fundamental areas of computer science, including programming, data structures, discrete mathematics, algorithms, formal languages, computer architecture, and operating systems. In addition, the concentration focuses on key topics of software engineering practice such as software cost estimation, large-scale software development, and risk management.

Degree Requirements—Computer Science

To earn a Bachelor of Science in Computer Science degree from UIC, students need to complete University, college, and department degree requirements. The Department of Computer Science degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Computer Science Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 61 |
| Required in the College of Engineering | 38 |
| Technical Electives | 15 |
| Required Mathematics Courses | 9 |
| Free Electives | 5 |
| Total Hours—BS in Computer Science | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|--|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Context | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Humanities/Social Sciences/Art Electives ^b | 15 |
| MATH 180—Calculus I ^c | 5 |
| MATH 181—Calculus II ^c | 5 |
| MATH 210—Calculus III ^c | 3 |
| Lab Science Sequence and Science Electives | 12 |
| Lab Science Sequence (8–10) ^d —See below | |
| Science Electives (2–4) ^e —See below | |
| Total Hours—Nonengineering and General Education Requirements | 61 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b These electives must be selected from a list of approved courses provided by the CS department.

^c This course is approved for the Analyzing the Natural World General Education category.

^d All courses on the lab science sequence list below are approved for the Analyzing the Natural World General Education category.

^e Science electives must be selected from a list of approved courses provided by the CS department. More explanation of the science requirement is given below.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CS 101—Introduction to Computing | 3 |
| CS 102—Introduction to Programming | 3 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| CS 202—Data Structures and Discrete Mathematics II | 3 |
| CS 266—Computer Architecture I: Logic and Computer Structures | 4 |
| CS 301—Languages and Automata | 3 |
| CS 335—Computer Ethics | 2 |
| CS 340—Software Design | 4 |
| CS 366—Computer Architecture II: Hardware-Software Interface | 4 |
| CS 376—Practicum in Computer Science Oral Presentations | 1 |
| CS 385—Operating Systems Concepts and Design | 4 |
| CS 401—Computer Algorithms I | 3 |
| Total Hours—Required in the College of Engineering | 38 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total required for graduation.

Technical Electives

| Courses | Hours |
|---|-----------|
| Students must complete at least fifteen hours of courses from among the following list of courses, only one of which may be outside the CS rubric: | 15 |
| CS 398—Undergraduate Design/Research (3) | |
| CS 411—Artificial Intelligence (3) | |
| CS 415—Computer Vision I (3) | |
| CS 421—Natural Language Processing (3) | |
| CS 422—User Interface Design and Programming (3) | |
| CS 426—Multimedia Computing (3) | |
| CS 440—Software Engineering I (3) | |
| CS 441—Distributed Object Programming Using Middleware (3) | |
| CS 442—Software Engineering II (3) | |
| CS 450—Introduction to Networking (3) | |
| CS 455—Design and Implementation of Network Protocols (3) | |
| CS 466—Advanced Computer Architecture (3) | |
| CS 469—Computer Systems Design (3) | |
| CS 473—Compiler Design (3) | |
| CS 474—Object-Oriented Languages and Environments (3) | |
| CS 476—Programming Language Design (3) | |
| CS 480—Database Systems (4) | |
| CS 485—Networked Operating Systems Programming (4) | |
| CS 488—Computer Graphics I (3) | |
| MCS 320—Introduction to Symbolic Computation (3) | |
| MCS 425—Codes and Cryptography (3) | |
| MCS 471—Numerical Analysis (3) | |
| MCS 481—Computational Geometry (3) | |
| STAT 471—Linear and Nonlinear Programming (3) | |
| Total Hours—Technical Electives | 15 |

Required Mathematics Courses

| Courses | Hours |
|--|----------|
| Nine hours from among the following list of courses, with at least one course taken from IE 342—Probability and Statistics for Engineers or STAT 381—Applied Statistical Methods: | 9 |
| One of the following courses must be chosen: | |
| IE 342—Probability and Statistics for Engineers (3) ^a | |
| OR | |
| STAT 381—Applied Statistical Methods (3) | |
| MATH 215—Introduction to Advanced Mathematics (3) | |
| MATH 220—Introduction to Differential Equations (3) | |
| One of the following courses may be chosen: | |
| MATH 310—Applied Linear Algebra (3) | |
| OR | |
| MATH 320—Linear Algebra I (3) | |
| MATH 430—Formal Logic I (3) | |
| MATH 435—Foundations of Number Theory (3) | |
| MATH 436—Number Theory for Applications (3) | |
| MCS 421—Combinatorics (3) | |
| MCS 423—Graph Theory (3) | |
| MCS 471—Numerical Analysis(3) ^b | |
| STAT 401—Introduction to Probability (3) | |
| STAT 472—Game Theory (3) | |
| Total Hours—Required Mathematics Courses | 9 |

^a Students who take IE 342 will not receive credit for either STAT 381 or STAT 401.

^b Students may choose to use MCS 471—Numerical Analysis as either a CS technical elective from outside the CS department or as a required mathematics course, but not both.

Lab Science Sequence and Science Electives

Every student must take one of the two-course lab sequences from Biological Sciences, Chemistry, Earth and Environmental Sciences, or Physics. In Chemistry, either the sequence CHEM 112, CHEM 114, or the sequence CHEM 116, CHEM 118 may be chosen. The choices are in the list below. Additionally, students must take a total of at least 12 semester hours, including that sequence, in the science area. Additional courses may be other courses on this list, courses that have any of these courses as prerequisites, or other sciences and quantitative social sciences courses from a list maintained by the Computer Science department.

| Courses | Hours |
|---|-----------|
| Twelve hours from among the following list of courses,^a including the sequence described above: | 12 |
| BIOS 100—Biology of Cells and Organisms (5) | |
| BIOS 101—Biology of Populations and Communities (5) | |
| CHEM 112—General Chemistry I (5) | |
| CHEM 114—General Chemistry II (5) | |
| CHEM 116—Honors General Chemistry I (5) | |
| CHEM 118—Honors General Chemistry II (5) | |
| PHYS 141—General Physics I (Mechanics) (4) | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) | |
| EAES 101—Introduction to Earth and Environmental Sciences I (5) | |
| EAES 102—Introduction to Earth and Environmental Sciences II (5) | |
| Total Hours—Lab Science/Science Electives | 12 |

^a These courses are approved for the Analyzing the Natural World General Education category

Free Electives

| Courses | Hours |
|-----------------------------------|----------|
| Total Hours—Free Electives | 5 |

Sample Course Schedule—Computer Science**Freshman Year**

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CS 101—Introduction to Computing | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 14 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| Lab Science Sequence I | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CS 102—Introduction to Programming | 3 |
| Total Hours | 15 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| Lab Science Sequence II | 4 |
| CS 201—Discrete Mathematics and Data Structures I | 4 |
| General Education Core course | 3 |
| Free Elective | 2 |
| Total Hours | 16 |

| Second Semester | Hours |
|--|-----------|
| CS 266—Computer Architecture I | 4 |
| CS 202—Discrete Mathematics and Data Structures II | 3 |
| Required Mathematics course | 3 |
| Science Elective | 4 |
| General Education Core course | 3 |
| Total Hours | 17 |

Junior Year

| First Semester | Hours |
|---|-----------|
| CS 366—Computer Architecture II | 4 |
| CS 340—Software Design | 4 |
| Required Mathematics course | 3 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|--|-----------|
| CS 301—Languages and Automata | 3 |
| Free Elective | 3 |
| CS 385—Operating Systems Concepts and Design | 4 |
| Required Mathematics course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 16 |

Senior Year

| First Semester | Hours |
|----------------------------|-------|
| CS 335—Computer Ethics | 2 |
| CS 401—Computer Algorithms | 3 |

| | |
|---|-----------|
| Technical Elective | 3 |
| Technical Elective | 3 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|---|-----------|
| Technical Elective | 3 |
| Technical Elective | 3 |
| Technical Elective | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| CS 376—Practicum in CS Oral Presentations | 1 |
| Total Hours | 16 |

Degree Requirements—Computer Science with Computer Systems Concentration

To earn a Bachelor of Science in Computer Science, Computer Systems Concentration degree from UIC, students need to complete University, college, and department degree requirements. The Department of Computer Science degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Computer Science, Computer Systems Concentration Degree Requirements | Hours |
|--|------------|
| Nonengineering and General Education Requirements | 60 |
| Required in the College of Engineering | 38 |
| Technical Electives | 18 |
| Required Mathematics Courses | 6 |
| Free Elective | 6 |
| Total Hours—BS in Computer Science, Computer Systems Concentration | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society Course ^a | 3 |
| Humanities/Social Sciences/Art Electives ^b | 15 |
| MATH 180—Calculus I ^c | 5 |
| MATH 181—Calculus II ^c | 5 |
| MATH 210—Calculus III ^c | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 141—General Physics I (Mechanics) ^c | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^c | 4 |
| Total Hours—Nonengineering and General Education Requirements | 60 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b These electives must be selected from a list of approved courses provided by the CS department.

^c This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CS 101—Introduction to Computing | 3 |
| CS 102—Introduction to Programming | 3 |
| ECE 225—Circuit Analysis | 4 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| CS 202—Data Structures and Discrete Mathematics II | 3 |
| CS 266—Computer Architecture I: Logic and Computer Structures | 4 |
| CS 301—Languages and Automata | 3 |
| CS 335—Computer Ethics | 2 |
| CS 366—Computer Architecture II: Hardware-Software Interface | 4 |
| CS 376—Practicum in Computer Science Oral Presentations | 1 |
| CS 385—Operating Systems Concepts and Design | 4 |
| CS 469—Computer Systems Design | 3 |
| Total Hours—Required in the College of Engineering | 38 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total required for graduation.

Technical Electives

| Courses | Hours |
|--|-----------|
| <i>Eighteen hours of courses from among the following list of courses, of which at most eleven hours may be from any department outside Computer Science provided that no more than one course is from the MCS or STAT rubrics. MCS 471 may count toward either the technical elective or the mathematics requirement.</i> | |
| CS 398—Undergraduate Design/Research (3) | 18 |
| CS 401—Computer Algorithms I (3) | |
| CS 411—Artificial Intelligence (3) | |
| CS 415—Computer Vision I (3) | |
| CS 421—Natural Language Processing (3) | |
| CS 422—User Interface Design and Programming (3) | |
| CS 426—Multimedia Computing (3) | |
| CS 440—Software Engineering I (3) | |
| CS 441—Distributed Object Programming Using Middleware (3) | |
| CS 450—Introduction to Networking (3) | |
| CS 455—Design and Implementation of Network Protocols (3) | |
| CS 466—Advanced Computer Architecture (3) | |
| CS 473—Compiler Design (3) | |
| CS 474—Object-Oriented Languages and Environments (3) | |
| CS 476—Programming Language Design (3) | |
| CS 480—Database Systems (4) | |
| CS 485—Networked Operating Systems Programming (4) | |
| CS 488—Computer Graphics I (3) | |
| ECE 340—Electronics I (4) | |
| ECE 367—Microprocessor-Based Design (4) | |
| ECE 465—Digital Systems Design (3) | |
| ECE 467—Introduction to VLSI Design (4) | |
| MCS 320—Introduction to Symbolic Computation (3) | |
| MCS 425—Codes and Cryptography (3) | |
| MCS 471—Numerical Analysis (3) | |
| MCS 481—Computational Geometry (3) | |
| STAT 471—Linear and Nonlinear Programming (3) | |
| Total Hours—Technical Electives | 18 |

Required Mathematics Courses

| Courses | Hours |
|--|-------|
| <i>Six hours from among the following list of courses, with at least one course taken from IE 342—Probability and Statistics for Engineers or STAT 381—Applied Statistical Methods</i> | 6 |

One of the following courses must be chosen:

IE 342—Probability and Statistics for Engineers^a (3)

OR

STAT 381—Applied Statistical Methods (3)

MATH 215—Introduction to Advanced Mathematics (3)

One of the following courses may be chosen:

MATH 310—Applied Linear Algebra (3)

OR

MATH 320—Linear Algebra I (3)

MATH 430—Formal Logic I (3)

MATH 435—Foundations of Number Theory (3)

MATH 436—Number Theory for Applications (3)

MCS 421—Combinatorics (3)

MCS 423—Graph Theory (3)

MCS 471—Numerical Analysis (3)^b

STAT 401—Introduction to Probability (3)

STAT 472—Game Theory (3)

Total Hours—Required Mathematics Courses **6**

^a Students who take IE 342 will not receive credit for either STAT 381 or STAT 401.

^b Students may choose to use MCS 471—Numerical Analysis as either a CS technical elective from outside the CS department or as a required mathematics course, but not both.

Free Electives

| Courses | Hours |
|-----------------------------------|----------|
| Total Hours—Free Electives | 6 |

Sample Course Schedule—Computer Science with Computer Systems Concentration**Freshman Year**

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CS 101—Introduction to Computing | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 17 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CS 102—Introduction to Programming | 3 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 17 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| CS 201—Discrete Mathematics and Data Structures I | 4 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|---|-----------|
| MATH 220—Introduction to Differential Equations | 3 |
| CS 202—Data Structures and Discrete Mathematics II | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 16 |

Junior Year

| First Semester | Hours |
|---------------------------------|-----------|
| CS 266—Computer Architecture I | 4 |
| CS 301—Languages and Automata | 3 |
| ECE 225—Circuit Analysis | 4 |
| Required Mathematics course | 3 |
| Free Elective | 3 |
| Total Hours | 17 |
| Second Semester | Hours |
| CS 366—Computer Architecture II | 4 |
| Technical Elective | 3 |
| Technical Elective | 3 |
| Required Mathematics course | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

Senior Year

| First Semester | Hours |
|--|-----------|
| CS 376—Practicum in CS Presentations | 1 |
| CS 385—Operating Systems Concepts and Design | 4 |
| Technical Elective | 3 |
| Technical Elective | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 14 |
| Second Semester | Hours |
| Technical Elective | 3 |
| Technical Elective | 3 |
| CS 335—Computer Ethics | 2 |
| CS 469—Computer Systems Design | 3 |
| Free Elective | 4 |
| Total Hours | 15 |

Degree Requirements—Computer Science with Software Engineering Concentration

To earn a Bachelor of Science in Computer Science, Software Engineering Concentration degree from UIC, students need to complete University, college, and department degree requirements. The Department of Computer Science degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Computer Science with Software Engineering Concentration Degree Requirements | Hours |
|--|------------|
| Nonengineering and General Education Requirements | 61 |
| Required in the College of Engineering | 47 |
| Technical Electives | 9 |
| Required Mathematics Courses | 6 |
| Free Elective | 5 |
| Total Hours—BS in Computer Science, Software Engineering Concentration | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |

| | |
|--|----|
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Humanities/social sciences/art electives ^b | 15 |
| MATH 180—Calculus I ^c | 5 |
| MATH 181—Calculus II ^c | 5 |
| MATH 210—Calculus III ^c | 3 |
| Lab Science Sequence and Science Electives | 12 |
| Lab Science Sequence (8–10) ^d —See below | |
| Science Electives (2–4) ^e —See below | |

Total Hours—Nonengineering and General Education Requirements **61**

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b These electives must be selected from a list of approved courses provided by the CS department.

^c This course is approved for the Analyzing the Natural World General Education category.

^d All courses on the lab science sequence list below are approved for the Analyzing the Natural World General Education category.

^e Science electives must be selected from a list of approved courses provided by the CS department. More explanation of the science requirement is given below.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CS 101—Introduction to Computing | 3 |
| CS 102—Introduction to Programming | 3 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| CS 202—Data Structures and Discrete Mathematics II | 3 |
| CS 266—Computer Architecture I: Logic and Computer Structures | 4 |
| CS 301—Languages and Automata | 3 |
| CS 335—Computer Ethics | 2 |
| CS 340—Software Design | 4 |
| CS 366—Computer Architecture II: Hardware-Software Interface | 4 |
| CS 376—Practicum in Computer Science Oral Presentations | 1 |
| CS 385—Operating Systems Concepts and Design | 4 |
| CS 401—Computer Algorithms I | 3 |
| CS 440—Software Engineering I | 3 |
| CS 442—Software Engineering II | 3 |
| IE 342—Probability and Statistics for Engineers | 3 |
| Total Hours—Required in the College of Engineering | 47 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Electives

| Courses | Hours |
|---|-------|
| Students must complete at least nine hours of courses from among the following list of courses, only one of which may be outside the CS rubric. Two of these courses must be taken from the following list of courses: CS 422, CS 480 and either CS 441 or CS 485. | |
| CS 398—Undergraduate Design/Research (3) | 9 |
| CS 411—Artificial Intelligence (3) | |
| CS 421—Natural Language Processing (3) | |
| CS 422—User Interface Design and Programming (3) | |
| CS 426—Multimedia Computing (3) | |
| CS 441—Distributed Object Programming Using Middleware (3) | |
| CS 450—Introduction to Networking (3) | |
| CS 455—Design and Implementation of Network Protocols (3) | |
| CS 473—Compiler Design (3) | |
| CS 474—Object-Oriented Languages and Environments (3) | |
| CS 476—Programming Language Design (3) | |

| | |
|---|----------|
| CS 480—Database Systems (4) | |
| CS 485—Networked Operating Systems Programming (4) | |
| CS 488—Computer Graphics I (3) | |
| IE 345—Regression Applications and Forecasting in Engineering (3) | |
| MCS 425—Codes and Cryptography (3) | |
| STAT 471—Linear and Nonlinear Programming (3) | |
| Total Hours—Technical Electives | 9 |

Required Mathematics Courses

| Courses | Hours |
|--|----------|
| Six hours from among the following list of courses: | 6 |
| MATH 215—Introduction to Advanced Mathematics (3) | |
| MATH 220—Introduction to Differential Equations (3) | |
| One of the following courses may be chosen: | |
| MATH 310—Applied Linear Algebra (3) | |
| OR | |
| MATH 320—Linear Algebra I (3) | |
| MATH 430—Formal Logic I (3) | |
| MATH 435—Foundations of Number Theory (3) | |
| MATH 436—Number Theory for Applications (3) | |
| MCS 421—Combinatorics (3) | |
| MCS 423—Graph Theory (3) | |
| MCS 471—Numerical Analysis (3) ^a | |
| STAT 473—Game Theory (3) | |
| Total Hours—Required Mathematics Courses | 6 |

^a Students may choose to use MCS 471—Numerical Analysis as either a CS technical elective from outside the CS department or as a required mathematics course, but not both.

Lab Science Sequence and Science Electives

Every student must take one of the two-course lab sequences from Biological Sciences, Chemistry, Earth and Environmental Sciences, or Physics. In Chemistry, either the sequence CHEM 112, CHEM 114, or the sequence CHEM 116, CHEM 118 may be chosen. The choices are in the list below. Additionally, students must take a total of at least 12 credit hours, including that sequence, in the science area. Additional courses may be other courses on this list, courses that have any of these courses as prerequisites, or other sciences and quantitative social sciences courses from a list maintained by the Computer Science Department. Also, students preparing for the Fundamentals of Engineering Examination, which leads to becoming a Licensed Professional Engineer, are advised to take the Physics sequence of PHYS 141 and PHYS 142.

| Courses | Hours |
|---|-----------|
| Twelve hours from among the following list of courses, including the sequence described above. | 12 |
| BIOS 100—Biology of Cells and Organisms (5) | |
| BIOS 101—Biology of Populations and Communities (5) | |
| CHEM 112—General Chemistry I (5) | |
| CHEM 114—General Chemistry II (5) | |
| CHEM 116—Honors General Chemistry I (5) | |
| CHEM 118—Honors General Chemistry II (5) | |
| PHYS 141—General Physics I (Mechanics) (4) | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) | |
| EAES 101—Introduction to Earth and Environmental Sciences I (5) | |
| EAES 102—Introduction to Earth and Environmental Sciences II (5) | |
| Total Hours—Lab Science/Science Electives | 12 |

Free Electives

Students preparing for the Fundamentals of Engineering Examination, which leads to becoming a Licensed Professional Engineer, are advised to use these hours to take CME 201—Statics and one course from the following: CME 203—Strength of Materials, CME 260—Properties of Materials, and ME 211—Fluid Mechanics I.

| Courses | Hours |
|-----------------------------------|----------|
| Total Hours—Free Electives | 5 |

Sample Course Schedule—Computer Science with Software Engineering Concentration

Freshman Year

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CS 101—Introduction to Computing | 3 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 14 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| Lab Science Sequence I | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CS 102—Introduction to Programming | 3 |
| Total Hours | 15 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| Lab Science Sequence II | 4 |
| CS 201—Discrete Mathematics and Data Structures I | 4 |
| General Education Core course | 3 |
| Free Elective | 2 |
| Total Hours | 16 |

| Second Semester | Hours |
|--|-----------|
| CS 266—Computer Architecture I | 4 |
| CS 202—Discrete Mathematics and Data Structures II | 3 |
| IE 342—Probability and Statistics for Engineers | 3 |
| Science Elective | 4 |
| General Education Core course | 3 |
| Total Hours | 17 |

Junior Year

| First Semester | Hours |
|---------------------------------|-----------|
| CS 366—Computer Architecture II | 4 |
| CS 340—Software Design | 4 |
| Required Mathematics course | 3 |
| IE 201—Engineering Economy | 3 |
| General Education Core course | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|--|-----------|
| CS 301—Languages and Automata | 3 |
| Free Elective | 3 |
| CS 385—Operating Systems Concepts and Design | 4 |
| Required Mathematics course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 16 |

Senior Year

| First Semester | Hours |
|---|-----------|
| CS 335—Computer Ethics | 2 |
| CS 401—Computer Algorithms | 3 |
| CS 440—Software Engineering I | 3 |
| Technical Elective | 3 |
| General Education Core course | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|---|-----------|
| CS 442—Software Engineering II | 3 |
| Technical Elective | 3 |
| Technical Elective | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| Humanities/Social Sciences/Art Elective | 3 |
| CS 376—Practicum in CS Oral Presentations | 1 |
| Total Hours | 16 |

Minors**Minor in Computer Science**

For the minor, 14–17 semester hours are required, excluding prerequisite courses. This minor is not available to students in very closely related fields, including Computer Systems, Computer Engineering, and Mathematical Computer Science.

| Prerequisite Courses—Computer Science Minor | Hours |
|---|----------|
| MATH 180—Calculus I | 5 |
| Total Hours—Prerequisites for Computer Science Minor | 5 |

| Required Courses—Computer Science Minor | Hours |
|--|-------|
| CS 101—Introduction to Computing ^a | 3 |
| CS 102—Introduction to Programming ^a | 3 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| CS 202—Data Structures and Discrete Mathematics II | 3 |

| | |
|--------------------------------------|-----|
| One of the following courses: | 3–4 |
| CS 301—Languages and Automata (3) | |
| CS 340—Software Design (4) | |
| CS 401—Computer Algorithms (3) | |

| | |
|--|--------------------------|
| Total Hours—Required Courses for Computer Science Minor | 14–17^a |
|--|--------------------------|

^a A student may substitute CS 107 for both CS 101 and CS 102, thus reducing the number of hours for the CS Minor by 2 credit hours. This substitution was designed for students in the College of Engineering.

Minor in Information Technology

The explosive growth of the World Wide Web and its universal acceptance by society has changed the computing landscape forever. Today, the typical computer user neither knows nor needs to know very much about how a computer works in order to use it. They need to have appropriate systems in place. Those systems must work properly, be secure, and be upgraded, maintained, and replaced as appropriate. What these users need, however, is a professional who can help them access new technologies effectively and appropriately. The Information Technologist is that professional. People throughout an organization require support from Information Technology staff who understand computer systems and their software, and are committed to solving computer-related problems they might have. From Web masters to network and system administrators, information technologists are the key agents in the societal revolution that is changing us from

an industrial society to a digital/information society.

For the minor, 12 semester hours are required, excluding prerequisite courses. Students who wish to minor in Information Technology (IT) must complete the following:

| Prerequisite Courses—Information Technology Minor | Hours |
|--|-------|
| MATH 121—Precalculus Mathematics (for nonengineering students only) | 5 |

| | |
|--|-----|
| One of the following courses: | 3–4 |
| IT 101—Java Programming for Information Technology (3) | |
| CS 102—Introduction to Programming (3) | |
| CS 107—Introduction to Computing and Programming (4) | |

| | |
|---|------------|
| Total Hours—Prerequisites for Information Technology Minor | 8–9 |
|---|------------|

| Required Courses—Information Technology Minor | Hours |
|--|-------|
| IT 201—Introduction to Computer Configuration and Operating Systems Software | 3 |
| IT 202—Web and Multimedia Technology | 3 |
| IT 301—Networks and Distributed Computing Technology | 3 |
| IT 302—Database Administration and Installation | 3 |

| | |
|--|-----------|
| Total Hours—Required Courses for Information Technology Minor | 12 |
|--|-----------|

**DEPARTMENT OF ELECTRICAL AND
COMPUTER ENGINEERING**

1020 Science and Engineering Offices (SEO)
(312) 996–3423

<http://www.ece.uic.edu>

Administration: Head of the Department, Mitra Dutta
Director of Undergraduate Studies, Roland Priemer
ECE Student Services: Alicja Wroblewski

BS in Electrical Engineering

The Electrical Engineering curriculum is concerned with analysis and design of modern electronic systems, devices, and signals for a broad range of applications such as wireless or network communication, electrical power and control, and multimedia information technology. The curriculum provides a wide background in the fundamental theory of electrical engineering and in the mathematical and scientific tools necessary for an electrical engineer to meet the current and future challenges of a professional career. The field of electrical engineering is currently evolving at a rapid pace since it has a major role in the accelerated growth of the technological world. This requires the modern electrical engineer not only to have a sound basis in the fundamental principles but also to have the capacity to learn and assimilate novel advances as soon as they materialize. These qualities are anticipated in the curriculum, which includes not only a sound theoretical background but also offers a variety of courses that develop the student's ability to gain knowledge autonomously and to combine it with contemporary design techniques. Courses are in diverse areas such as signal processing, power electronics, communications, optical and electromagnetic technologies, control systems, integrated circuits, multimedia networks, and image analysis.

The curriculum includes both required and elective courses. The required courses are in engineering, mathematics, and physics; they provide a wide backdrop in science and engineering. The elective courses are more specialized and offer a broad range of electrical engineering applications. Each student is assigned a faculty advisor who assists in the selection of the courses.

In addition to classroom experience, the Electrical

Engineering curriculum is planned to provide laboratory experience in electrical and electronic circuits, electromagnetics, communication and signal processing, controls, computers, and digital systems. The curriculum incorporates design projects in the student's experience starting from the freshman year and culminating in a capstone design project in the senior year. The project requires the students to undertake a significant group design that enriches their knowledge in practical aspects of engineering principles and methodologies. Most of these projects solve realistic problems and the results are presented in an exposition. The curriculum also requires the students to acquire oral and writing skills in expressing their professional ideas and ethical norms.

The educational objectives of the Electrical Engineering undergraduate program are for its graduates to:

- have knowledge of fundamental principles in electrical engineering and fundamental scientific principles and tools to design and develop products and practical solutions for problems in public and private sectors;
- demonstrate an ability to function independently and in multidisciplinary teams with the communication skills and ethical conduct necessary for professional success;
- demonstrate an understanding of the need for life-long learning, acquiring new knowledge, and mastering emerging technologies and new tools and methods;
- have knowledge necessary to pursue graduate/professional education and/or engineering practice.

Opportunities are available to participate in the activities of the student chapter of the Institute of Electrical and Electronic Engineers (IEEE) and Eta Kappa Nu, the honor society of electrical engineering. An interest in robotics can be pursued by joining the Engineering Design Team, a College of Engineering student group.

Degree Requirements—Electrical Engineering

To earn a Bachelor of Science in Electrical Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Electrical and Computer Engineering degree requirements are outlined below. Students should consult the College of Engineering section for additional degree requirements and college academic policies. See the ECE Department Web site for any revisions of the EE curriculum <http://www.ece.uic.edu>.

| BS in Electrical Engineering Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 50 |
| Required in the College of Engineering | 55 |
| Technical Electives | 17 |
| Additional Mathematics Requirement | 3 |
| Electives outside the Major Rubric | 3 |
| Total Hours—BS in Electrical Engineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |

| | |
|--|-----------|
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations I | 3 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| CHEM 112—General College Chemistry I ^b | 5 |
| Total Hours—Nonengineering and General Education Requirements | 50 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| Electrical Engineering Core Courses | |
| ENGR 100—Orientation ^a | 0 ^a |
| One of the following courses: | 3 |
| CHE 201—Introduction to Thermodynamics (3) | |
| ME 205—Introduction to Thermodynamics (3) | |
| CS 107—Introduction to Computing and Programming | 4 |
| ECE 115—Introduction to Electrical and Computer Engineering | 4 |
| ECE 225—Circuit Analysis | 4 |
| ECE 265—Introduction to Logic Design | 4 |
| ECE 267—Computer Organization I | 3 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| ECE 322—Communication Electromagnetics | 3 |
| ECE 340—Electronics I | 4 |
| ECE 341—Probability and Random Process for Engineers | 3 |
| ECE 346—Solid-State Device Theory | 4 |
| ECE 396—Senior Design I | 2 |
| ECE 397—Senior Design II | 2 |

Electrical Engineering Advanced Core Courses

| | |
|--|-----------|
| Three of the following courses, each with a laboratory: | 12 |
| ECE 311—Communication Engineering (4) | |
| ECE 317—Digital Signal Processing I (4) | |
| ECE 342—Electronics II (4) | |
| ECE 350—Principles of Automatic Control (4) | |
| ECE 367—Microprocessor-Based Design (4) | |
| ECE 424—RF and Microwave-Guided Propagation (4) | |
| Total Hours—Required in the College of Engineering | 55 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Electives

| Courses | Hours |
|---|-----------|
| Seventeen hours chosen from the following list. Those courses not used to meet the advanced electrical engineering core requirement can be used as technical electives. | |
| However, no more than a total of two courses below the 400-level may be used to meet the technical elective requirement. Also, no more than one course from outside of the Electrical and Computer Engineering Department may be used to meet the technical electives requirement. | 17 |
| PHYS 244—General Physics III (Modern Physics) (3) | |
| CS 385—Operating Systems Concepts and Design (4) ^a | |
| ECE 333—Computer Communication Networks I (4) | |
| ECE 347—Integrated Circuit Engineering (3) | |

| | |
|---|-----------|
| ECE 366—Computer Organization II (4) | |
| ECE 368—CAD-Based Digital Design (4) | |
| ECE 401—Quasi-static Electric and Magnetic Fields (3) | |
| ECE 407—Pattern Recognition I (3) | |
| ECE 410—Network Analysis (3) | |
| ECE 412—Introduction to Filter Synthesis (3) | |
| ECE 415—Image Analysis and Computer Vision I (3) | |
| ECE 417—Digital Signal Processing II (4) | |
| ECE 418—Statistical Digital Signal Processing (3) | |
| ECE 421—Introduction to Antennas and Wireless Propagation (3) | |
| ECE 423—Electromagnetic Compatibility (3) | |
| ECE 427—Modern Linear Optics (3) | |
| ECE 431—Analog Communication Circuits (4) | |
| ECE 432—Digital Communications (3) | |
| ECE 434—Multimedia Systems (3) | |
| ECE 436—Computer Communication Networks II (3) | |
| ECE 437—Wireless Communications (3) | |
| ECE 442—Power Semiconductor Devices and Integrated Circuits (4) | |
| ECE 445—Analysis and Design of Power Electronic Circuits (4) | |
| ECE 448—Transistors (3) | |
| ECE 449—Microdevices and Micromachining Technology (4) | |
| ECE 451—Control Engineering (3) | |
| ECE 452—Robotics: Algorithms and Control (3) | |
| ECE 458—Electromechanical Energy Conversion (3) | |
| ECE 465—Digital Systems Design (3) | |
| ECE 466—Computer Architecture (3) | |
| ECE 467—Introduction to VLSI Design (4) | |
| ECE 468—Analog and Mixed-Signal VLSI Design (4) | |
| ECE 469—Computer Systems Design (3) | |
| MCS 425—Coding and Cryptography (3) | |
| Total Hours—Technical Electives | 17 |

^a CS 385 is an acceptable technical elective for Electrical Engineering majors, provided they satisfy the prerequisites for this course, which are not otherwise required in this program.

Additional Mathematics Requirement

| Courses | Hours |
|---|----------|
| One of the following courses: | 3 |
| MATH 310—Applied Linear Algebra (3) | |
| MATH 410—Advanced Calculus I (3) | |
| MATH 417—Complex Analysis with Applications (3) | |
| MCS 471—Numerical Analysis (3) | |
| MATH 481—Applied Partial Differential Equations (3) | |
| Total Hours—Additional Mathematics Requirement | 3 |

Electives outside the Major Rubric

| Courses | Hours |
|---|----------|
| Three hours from outside the ECE rubric | 3 |
| Total Hours—Electives outside the Major Rubric | 3 |

Students preparing for the Fundamentals of Engineering Examination, which leads to becoming a Licensed Professional Engineer, are advised to use these hours to take CME 201—Statics and one course from the following courses: CME 203—Strength of Materials, CME 260—Properties of Materials, or ME 211—Fluid Mechanics I.

Sample Course Schedule— Electrical Engineering

Freshman Year

| First Semester | Hours |
|---|-------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |

| | |
|---|----------------|
| ECE 115—Introduction to Electrical and Computer Engineering | 4 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 17 |

^a ENGR 100 is one-semester-hour course, but does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CS 107—Introduction to Computing and Programming | 4 |
| Total Hours | 16 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| ECE 265—Introduction to Logic Design | 4 |
| General Education Core courses | 6 |
| Total Hours | 17 |

| Second Semester | Hours |
|---|-----------|
| MATH 220—Introduction to Differential Equations | 3 |
| CHE 201—Introduction to Thermodynamics | |
| OR | |
| ME 205—Introduction to Thermodynamics | 3 |
| ECE 267—Computer Organization I | 3 |
| General Education Core courses | 6 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|---|-----------|
| ECE 225—Circuit Analysis | 4 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| ECE 346—Solid State Device Theory | 4 |
| General Education Core course | 3 |
| Additional Mathematics course | 3 |
| Total Hours | 17 |

| Second Semester | Hours |
|--|-----------|
| ECE 322—Communication Electromagnetics | 3 |
| ECE 341—Probability and Random Processes for Engineers | 3 |
| ECE 340—Electronics I | 4 |
| Advanced EE Core Elective | 4 |
| Elective outside the Major Rubric | 3 |
| Total Hours | 17 |

Senior Year

| First Semester | Hours |
|----------------------------|-----------|
| ECE 396—Senior Design I | 2 |
| Advanced EE Core electives | 8 |
| Technical Electives | 5 |
| Total Hours | 15 |

| Second Semester | Hours |
|--------------------------|-----------|
| ECE 397—Senior Design II | 2 |
| Technical Electives | 13 |
| Total Hours | 15 |

Minor in Electrical Engineering

For the minor, 18 semester hours are required, excluding prerequisite courses. Students outside the Department of Electrical and Computer Engineering must complete the following:

| Prerequisite Courses—Electrical Engineering Minor | Hours |
|--|-----------|
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| ECE 115—Introduction to Electrical and Computer Engineering | 4 |
| Total Hours—Prerequisite Courses for Electrical Engineering Minor | 28 |
| Required Courses—Electrical Engineering Minor | Hours |
| ECE 225—Circuit Analysis | 4 |
| ECE 265—Introduction to Logic Design | 4 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| ECE 322—Communication Electromagnetics | 3 |
| ECE 340—Electronics I | 4 |
| Total Hours—Required Courses for Electrical Engineering Minor | 18 |

BS in Computer Engineering

Computer Engineering is concerned with the application of electrical engineering and computer science principles to the design of computer systems and digital networks. Through creative utilization of tools and knowledge, a computer engineer designs digital systems that are being employed in virtually all fields of human endeavor. This requires a background in physical sciences, information sciences, electrical engineering, and computer science. Computer engineering requires skills in both the design and development of computer hardware and computer software. Depending on need, the computer engineer may work with electrical engineers, computer scientists, information systems experts, biomedical researchers, and people in almost any other field. The diversity of products that involve the design talents of a computer engineer is unlimited. These range from large to small computers to special purpose computing hardware and software embedded within devices and systems. The applications, for example, are in business to organize, process, and communicate data, communications over mobile and satellite networks, digital sound and picture processing for entertainment, household appliances, automotive systems, manufacturing process control, biomedical instrumentation, machine control, and innumerable other fields. The emphasis in computer engineering is on the design of hardware as well as software tools and systems for the acquisition, processing, storage, and transmission of data and signals by digital means.

All students are required to obtain a strong mathematical foundation, including discrete mathematics and probability and statistics. Each student acquires a common background in the fundamentals of electrical engineering and computer science. This includes course work in computer languages, data structures and algorithms, software design and development, circuit analysis, signal processing, computer architecture, digital networks, microprocessor-based design, digital electronic circuits design, and computer operating systems design. Furthermore, in consultation with an advisor, each student can follow an individualized program by taking courses selected from a departmentally approved list of

technical elective courses for computer engineering. In almost all course work, students do design projects while learning to apply basic computer tools. The curriculum also requires the students to acquire oral and writing skills in expressing their professional ideas and ethical norms. As a senior, each student gains further design experience working in a group on a two-semester design project involving practical application of engineering principles.

The educational objectives of the Computer Engineering undergraduate program are for its graduates to:

- have knowledge of fundamental principles in computer engineering and fundamental scientific principles and tools to design and develop products and practical solutions for problems in public and private sectors;
- demonstrate an ability to function independently and in multidisciplinary teams with the communication skills and ethical conduct necessary for professional success;
- demonstrate an understanding of the need for life-long learning, acquiring new knowledge, and mastering emerging technologies and new tools and methods;
- have knowledge necessary to pursue graduate/professional education and/or engineering practice.

Students are encouraged to participate in the activities of the student chapters of the Institute of Electrical and Electronic Engineers (IEEE) and the Association for Computing Machinery (ACM). An interest in robotics can be pursued by joining the Engineering Design Team, a College of Engineering student group.

Degree Requirements—Computer Engineering

To earn a Bachelor of Science in Computer Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Electrical and Computer Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies. See the ECE Department Web site for any revisions of the CE curriculum <http://www.ece.uic.edu>.

BS in Computer Engineering

| Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 50 |
| Required in the College of Engineering | 58–59 |
| Technical Electives | 14 |
| Additional Mathematics Requirement | 3 |
| Electives outside the Major Rubric | 3 |
| Total Hours—BS in Computer Engineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |

| | |
|--|-----------|
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations I | 3 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| CHEM 112—General College Chemistry I ^b | 5 |
| Total Hours—Nonengineering and General Education Requirements | 50 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| Computer Engineering Core Courses | |
| ENGR 100—Orientation ^a | 0 ^a |
| One of the following courses: | 3 |
| CHE 201—Introduction to Thermodynamics (3) | |
| ME 205—Introduction to Thermodynamics (3) | |
| CS 107—Introduction to Computing and Programming | 4 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| ECE 115—Introduction to Electrical and Computer Engineering | 4 |
| ECE 225—Circuit Analysis | 4 |
| ECE 265—Introduction to Logic Design | 4 |
| ECE 267—Computer Organization I | 3 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| ECE 340—Electronics I | 4 |
| ECE 341—Probability and Random Processes for Engineers | 3 |
| ECE 366—Computer Organization II | 4 |
| ECE 396—Senior Design I | 2 |
| ECE 397—Senior Design II | 2 |

Computer Engineering Advanced Core Courses

Students must complete at least two courses from each of the following two groups of courses: 14–15

Group A:

| |
|--|
| ECE 333—Computer Communication Networks I (4) |
| ECE 367—Microprocessor-Based Design (4) |
| ECE 368—CAD-Based Digital Design (4) |
| CS 385—Operating Systems Concepts and Design (4) |

Group B:

| |
|---|
| ECE 465—Digital Systems Design (3) |
| ECE 466—Computer Architecture (3) |
| ECE 467—Introduction to VLSI Design (4) |
| CS 401—Algorithms (3) |

Total Hours—Required in the College of Engineering 58–59

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Electives

Courses **Hours**

Fourteen hours chosen from the following list. Those courses not used to meet the advanced computer engineering core requirement can be used as technical electives.

However, no more than a total of two courses below the 400-level may be used to meet the technical elective requirement. Also, no more than one course from outside of the ECE Department may be used to meet the technical elective requirement. 14

| |
|---|
| CS 202—Data Structures and Discrete Mathematics II (3) |
| CS 473—Compiler Design (3) |
| CS 485—Networked Operating Systems Programming (4) |
| ECE 311—Communication Engineering (4) |
| ECE 317—Digital Signal Processing I (4) |
| ECE 322—Communication Electromagnetics (3) |
| ECE 342—Electronics II (4) |
| ECE 346—Solid-State Device Theory (4) |
| ECE 347—Integrated Circuit Engineering (3) |
| ECE 350—Principles of Automatic Control (4) |
| ECE 401—Quasi-Static Electric and Magnetic Fields (3) |
| ECE 407—Pattern Recognition I (3) |
| ECE 410—Network Analysis (3) |
| ECE 412—Introduction to Filter Synthesis (3) |
| ECE 415—Image Analysis and Computer Vision I (3) |
| ECE 417—Digital Signal Processing II (4) |
| ECE 418—Statistical Digital Signal Processing (3) |
| ECE 421—Introduction to Antennas and Wireless Propagation (3) |
| ECE 423—Electromagnetic Compatibility (3) |
| ECE 424—RF and Microwave-Guided Propagation (4) |
| ECE 427—Modern Linear Optics (3) |
| ECE 431—Analog Communication Circuits (4) |
| ECE 432—Digital Communications (3) |
| ECE 434—Multimedia Systems (3) |
| ECE 436—Computer Communication Networks II (3) |
| ECE 437—Wireless Communications (3) |
| ECE 442—Power Semiconductor Devices and Integrated Circuits (4) |
| ECE 445—Analysis and Design of Power Electronic Circuits (4) |
| ECE 448—Transistors (3) |
| ECE 449—Microdevices and Micromachining Technology (4) |
| ECE 451—Control Engineering (3) |
| ECE 452—Robotics: Algorithms and Control (3) |
| ECE 458—Electromechanical Energy Conversion (3) |
| ECE 468—Analog and Mixed-Signal VLSI Design (4) |
| ECE 469—Computer Systems Design (3) |
| MCS 425—Coding and Cryptography (3) |
| PHYS 244—General Physics III (Modern Physics) (3) |

Total Hours—Technical Electives 14

Additional Mathematics Requirement

| Courses | Hours |
|---|----------|
| One of the following courses: | 3 |
| MATH 310—Applied Linear Algebra (3) | |
| MATH 410—Advanced Calculus I (3) | |
| MATH 417—Complex Analysis with Applications (3) | |
| MCS 471—Numerical Analysis (3) | |
| MATH 481—Applied Partial Differential Equations (3) | |
| Total Hours—Additional Mathematics Requirement | 3 |

Electives outside the Major Rubric

| Courses | Hours |
|--|----------|
| Three hours from outside the ECE Rubric | 3 |
| Total Hours—Elective outside the Major Rubric | 3 |

Students preparing for the Fundamentals of Engineering Examination, which leads to becoming a Licensed Professional Engineer, are advised to use these hours to take CME 201—Statics and one course from the following courses: CME 203—Strength of Materials, CME 260—Properties of Materials, or ME 211—Fluid Mechanics.

Sample Course Schedule— Computer Engineering

Freshman Year

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ECE 115—Introduction to Electrical and Computer Engineering | 4 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 17 |

^a ENGR 100 is one-semester-hour course, but does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| CS 107—Introduction to Computing and Programming | 4 |
| Total Hours | 16 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| ECE 265—Introduction to Logic Design | 4 |
| General Education Core course | 3 |
| Total Hours | 18 |

| Second Semester | Hours |
|---|-----------|
| MATH 220—Introduction to Differential Equations | 3 |
| CHE 201—Introduction to Thermodynamics | |
| OR | |
| ME 205—Introduction to Thermodynamics | 3 |
| ECE 267—Computer Organization I | 3 |
| General Education Core courses | 6 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|---|-----------|
| ECE 225—Circuit Analysis | 4 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| Advanced CE Core Elective | 4 |
| General Education Core course | 3 |
| ECE 366—Computer Organization II | 3 |
| Total Hours | 18 |

| Second Semester | Hours |
|--|-----------|
| Additional Mathematics course | 3 |
| ECE 341—Probability and Random Processes for Engineers | 3 |
| ECE 340—Electronics I | 4 |
| Advanced CE Core Elective | 4 |
| General Education Core course | 3 |
| Total Hours | 17 |

Senior Year

| First Semester | Hours |
|-----------------------------------|-----------|
| ECE 396—Senior Design I | 2 |
| Advanced CE Core Elective | 3 |
| Elective outside the Major Rubric | 3 |
| Technical Electives | 6 |
| Total Hours | 14 |

| Second Semester | Hours |
|---------------------------|-----------|
| ECE 397—Senior Design II | 2 |
| Technical Electives | 8 |
| Advanced CE Core Elective | 3 |
| Total Hours | 13 |

Minor in Computer Engineering

For the minor, 19 semester hours are required, excluding prerequisite courses. Students outside the Department of Electrical and Computer Engineering must complete the following:

| Prerequisite Courses—Computer Engineering Minor | Hours |
|--|-----------|
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| CS 107—Introduction to Computing and Programming | 4 |
| ECE 115—Introduction to Electrical and Computer Engineering | 4 |
| Total Hours—Prerequisite Courses for Computer Engineering Minor | 32 |

| Required Courses—Computer Engineering Minor | Hours |
|--|-----------|
| ECE 225—Circuit Analysis | 4 |
| ECE 265—Introduction to Logic Design | 4 |
| ECE 267—Computer Organization I | 3 |
| ECE 366—Computer Organization II | 4 |
| CS 201—Data Structures and Discrete Mathematics I | 4 |
| Total Hours—Required Courses for Computer Engineering Minor | 19 |

BS in Engineering Physics

The BS in Engineering Physics is offered by the Department of Electrical and Computer Engineering (College of Engineering) in association with the Department of Physics (College of Liberal Arts and Sciences).

The Engineering Physics major bridges the gap between science and technology by combining a strong background in physics and mathematics with exposure to the most fundamental areas of engineering. The program is based on the recognition that most engineering disciplines are rooted in the field of physics, and that new and emerging technologies rarely fall neatly within a single engineering discipline but often straddle different fields. The program highlights, for instance, the subtle and deep relations between materials science and civil engineering, between solid-state physics and chemical engineering, and between electromagnetics and telecommunication engineering.

This training is especially well suited to students who wish to pursue careers in research and development in advanced technology and applied science. In particular, students majoring in this program are well qualified to pursue graduate studies in most areas of engineering and applied physics.

The content of this program strongly emphasizes topics in physics and mathematics; however, this curriculum also gives students great flexibility in the choice of topics for technical electives. Students can customize their curriculum by choosing four technical elective courses from many fields. Engineering training is completed by a senior design project, which can be taken in any department within the engineering college.

Students interested in the Engineering Physics major should contact Professor George Uslenghi in the Department of Electrical and Computer Engineering at uslenghi@uic.edu.

Degree Requirements—Engineering Physics

To earn a Bachelor of Science in Engineering Physics degree from UIC, students need to complete University and college degree requirements. The course requirements for this program are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies. See the ECE Department Web site for revisions to the Engineering Physics curriculum <http://www.ece.uic.edu>.

| BS in Engineering Physics Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 65 |
| Required in the College of Engineering | 33–36 |
| Advanced Electromagnetics Requirement | 7–8 |
| Advanced Mechanics Requirement | 3–4 |
| Technical Electives | 12–17 |
| Electives outside Major Rubric | 3 |
| Total Hours—BS in Engineering Physics | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations I | 3 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| PHYS 215—Mathematical Methods for Physicists | 4 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| PHYS 411—Quantum Mechanics I | 4 |
| PHYS 481—Modern Experimental Physics I | 4 |
| CHEM 112—General College Chemistry I ^b | 5 |
| Total Hours—Nonengineering and General Education Requirements | 65 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|-----------------------------------|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CME 201—Statics | 3 |
| CME 203—Strength of Materials | 3 |
| CME 260—Properties of Materials | 3 |

Senior Design Requirement chosen from the following:

BIOE 396—Senior Design I (3)
BIOE 397—Senior Design II (3)

OR

CME 396—Senior Design I (3)
CME 397—Senior Design II (3)

OR

CHE 396—Senior Design I (4)
CHE 397—Senior Design II (3)

OR

ECE 396—Senior Design I (2)
ECE 397—Senior Design II (2)

OR

ME 396—Senior Design (4)

| | |
|--|---|
| One of the following courses: | 3 |
| CHE 201—Introduction to Thermodynamics (3) | |
| ME 205—Introduction to Thermodynamics (3) | |

| | |
|---|---|
| One of the following courses: | 3 |
| CS 102—Introduction to Programming (3) | |
| CS 108—Fortran Programming for Engineers (3) | |
| ECE 225—Circuit Analysis ^b | 4 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| ECE 346—Solid State Device Theory | 4 |
| ME 212—Fundamentals of Fluid Mechanics | 3 |

Total Hours—Required in the College of Engineering **33–36**

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

^b For the Engineering Physics major, the prerequisite ECE 115 is not required.

Advanced Electromagnetics Requirement

| Courses | Hours |
|--|------------|
| One of the following two-course sequences: | 7–8 |
| ECE 322—Communication Electromagnetics (3) | |
| ECE 424—RF and Microwave-Guided Propagation (4) | |
| OR | |
| PHYS 401—Electromagnetism I (4) | |
| PHYS 402—Electromagnetism II (4) | |
| Total Hours—Advanced Electromagnetics Requirement | 7–8 |

Advanced Mechanics Requirement

| Courses | Hours |
|---|------------|
| One of the following courses: | 3–4 |
| ME 413—Dynamics of Mechanical Systems (3) | |
| PHYS 441—Theoretical Mechanics (4) | |
| Total Hours—Advanced Mechanics Requirement | 3–4 |

Technical Electives

| Courses | Hours |
|---|-------|
| Twelve to seventeen semester hours from a list of technical electives available from the advisor. These courses should be selected in consultation with the advisor and should be chosen from approved sequences in the following areas: | 12–17 |
| Bioengineering | |
| Civil and Materials Engineering | |
| Chemical Engineering Design | |

| | |
|--|--------------|
| Chemical Engineering Multiphase Transport Phenomena | |
| Chemical Engineering Chemical Process | |
| Computer Science | |
| Electrical and Computer Engineering Circuits and VLSI | |
| Electrical and Computer Engineering Communications and Signal and Processing | |
| Electrical and Computer Engineering Solid State, MEMS, and Nanotechnology | |
| Electrical and Computer Engineering | |
| Electromagnetics and Optics | |
| Mechanical Engineering Thermal/Fluid Science | |
| Mechanical Engineering Mechanical Systems | |
| Modern Physics | |
| Total Hours—Technical Electives | 12–17 |

Electives outside Major Rubric

| Courses | Hours |
|---|----------|
| Electives outside the PHYS and ECE Rubrics | 3 |
| Total Hours—Electives outside the Major Rubric | 3 |

Sample Course Schedule— Engineering Physics

Freshman Year

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 16 |

^a ENGR 100 is one-semester-hour course, but does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| CME 201—Statics | 3 |
| CS 108—Fortran Programming for Engineers | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |
| Second Semester | Hours |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 215—Mathematical Methods for Physicists | 4 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| CME 240—Strength of Materials | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

Junior Year

| First Semester | Hours |
|---|--------------|
| PHYS 481—Modern Experimental Physics I | 4 |
| ECE 225—Circuit Analysis | 4 |
| ME 212—Fundamentals of Fluid Mechanics | 3 |
| Technical Elective | 3 |
| Elective outside ECE and PHYS | 3 |
| Total Hours | 17 |
| Second Semester | Hours |
| Advanced Mechanics Requirement | 3–4 |
| ECE 310—Discrete and Continuous Signals and Systems | 3 |
| ME 205—Thermodynamics | 3 |
| Technical Electives | 6 |
| Total Hours | 15–16 |

Senior Year

| First Semester | Hours |
|--|--------------|
| PHYS 411—Quantum Mechanics I | 4 |
| Advanced Electromagnetics Requirement I | 4 |
| Senior Design I | 2–4 |
| Technical Elective | 3 |
| General Education Core course | 3 |
| Total Hours | 16–18 |
| Second Semester | Hours |
| ECE 346—Solid State Device Theory | 4 |
| Senior Design II | 0–3 |
| CME 260—Properties of Materials | 3 |
| Advanced Electromagnetics Requirement II | 4 |
| Technical Elective | 3 |
| Total Hours | 14–17 |

DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

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The Department of Mechanical and Industrial Engineering offers both fundamental and advanced courses that prepare students for careers in the engineering profession or for advanced study at the graduate level. The department offers Bachelor of Science degrees in Mechanical Engineering, Industrial Engineering, and Engineering Management. All programs are offered in an economically thriving, industrialized, and world-class city. The campus is located in the heart of Chicago, and has a diverse student body in a leading-edge research environment.

Accreditation

The Department of Mechanical and Industrial Engineering offers two programs accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. These degrees are the Bachelor of Science in Mechanical Engineering and Bachelor of Science in Industrial Engineering. The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology offices are located at 111 Market Place, Suite 1050, Baltimore, MD 21201-4012, (410) 347-7700.

BS in Mechanical Engineering

Mechanical engineering is essential to a wide range of activities that include the design, development, manufacture, management, and control of engineering systems, subsystems, and their components. Typically mechanical engineers are employed in a wide range of industries, such as manufacturing, power, aerospace, automotive, materials, and processing industries. As a result of the recent rapid expansion of technology, mechanical engineers also have become increasingly involved in computer-aided design and visualization; robotics; bioengineering; environmental engineering; solar, wind, and ocean energy sources; and space exploration. The breadth of the field provides the graduate with many possibilities for a satisfying career.

The program has been developed to provide students with a broad base on which to build a successful mechanical engineering career. Courses are offered in the mechanical design and thermal fluid science fields. Topics covered in mechanical design include kinematics, mechanisms, stress analysis, dynamic systems, material properties, CAD/CAM, dynamics, vibrations, mechatronics, microelectrical mechanical systems (MEMS), and control theory. Courses offered in the thermal fluid sciences include thermodynamics, heat transfer, and combustion. These courses provide a basis for all types of power applications, including internal combustion engines, nuclear reactors, heating systems, refrigeration systems, and solar power. The program also emphasizes computer applications, professional ethics, communication skills, ability to work in a multidisciplinary team, awareness of broad education, lifelong learning, and contemporary issues.

The objectives of the Bachelor of Science in Mechanical Engineering can be found online http://www.mie.uic.edu/programs/bsme_objectives.htm.

Degree Requirements—Mechanical Engineering

To earn a Bachelor of Science in Mechanical Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Mechanical and Industrial Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Mechanical Engineering Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 53 |
| Required in the College of Engineering | 63 |
| Technical Electives | 9 |
| Electives outside the Major Rubric | 3 |
| Total Hours—BS in Mechanical Engineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| CHEM 112—General College Chemistry I ^b | 5 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| Total Hours—Nonengineering and General Education Requirements | 53 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CME 201—Statics | 3 |
| CME 203—Strength of Materials | 3 |
| CME/ME 261—Materials for Manufacturing | 2 |
| CS 108—Fortran Programming for Engineers | 3 |
| ECE 210—Electrical Circuit Analysis | 3 |
| IE 201—Financial Engineering | 3 |
| ME 205—Introduction to Thermodynamics | 3 |
| ME 210—Engineering Dynamics | 3 |
| ME 211—Fluid Mechanics I | 4 |
| ME 250—Engineering Graphics and Design | 3 |
| ME 308—Mechanical Vibrations | 3 |
| ME 312—Dynamic Systems and Control | 3 |
| ME 320—Mechanisms and Dynamics of Machinery | 4 |
| ME 321—Heat Transfer | 4 |
| ME 325—Intermediate Thermodynamics | 3 |
| ME 341—Experimental Methods in ME | 3 |
| ME 380—Manufacturing Process Principles | 3 |
| ME 396—Senior Design ^b | 4 |
| ME 428—Numerical Methods in Mechanical Engineering | 3 |
| ME 447—Introduction to Computer-Aided Design | 3 |
| ME 499—Professional Development Seminar | 0 |
| Total Hours—Required in the College of Engineering | 63 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

^b ME 445 may be used as a substitute for ME 396; ME 444 is a prerequisite for ME 445.

Technical Electives

| Courses | Hours |
|---|----------|
| Nine hours from the list below: | 9 |
| ECE 458—Electromechanical Energy Conversion (3) | |
| IE 342—Probability and Statistics for Engineers (3) | |
| ME 370—Design of Machine Components (3) | |
| ME 392—Undergraduate Research (3 or 6) | |
| Any 400-level ME course not required above | |
| Total Hours—Technical Electives | 9 |

Electives outside the Major Rubric

| Courses | Hours |
|---|----------|
| Electives outside the ME Rubric | 3 |
| Total Hours—Electives outside the Major Rubric | 3 |

Sample Course Schedule— Mechanical Engineering**Freshman Year**

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 16 |

^a ENGR 100 is one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| ME 250—Engineering Graphics and Design | 3 |
| CS 108—Fortran Programming for Engineers | 3 |
| Total Hours | 18 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| IE 201—Financial Engineering | 3 |
| CME 201—Statics | 3 |
| CME 261—Materials for Manufacturing | 2 |
| Total Hours | 15 |
| Second Semester | Hours |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| CME 203—Strength of Materials | 3 |
| ME 205—Introduction to Thermodynamics | 3 |
| Elective outside Major Rubric | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|-------------------------------------|-----------|
| ECE 210—Electrical Circuit Analysis | 3 |
| ME 210—Engineering Dynamics | 3 |
| ME 211—Fluid Mechanics I | 4 |
| ME 325—Intermediate Thermodynamics | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|---|-----------|
| ME 308—Mechanical Vibrations | 3 |
| ME 312—Dynamic Systems and Control | 3 |
| ME 320—Mechanisms and Dynamics of Machinery | 4 |
| ME 321—Heat Transfer | 4 |
| General Education Core course | 3 |
| Total Hours | 17 |

Senior Year

| First Semester | Hours |
|--|-----------|
| ME 380—Manufacturing Process Principles | 3 |
| ME 428—Numerical Methods in Mechanical Engineering | 3 |
| ME 447—Introduction to Computer-Aided Design | 3 |
| Technical Elective | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

| Second Semester | Hours |
|---|-----------|
| ME 341—Experimental Methods in Mechanical Engineering | 3 |
| ME 396—Senior Design | 4 |
| ME 499—Professional Development Seminar | 0 |
| General Education Core course | 3 |
| Senior Technical Electives | 6 |
| Total Hours | 16 |

Minor in Mechanical Engineering

For the minor, 16–18 semester hours are required, excluding prerequisite courses. Students not majoring in Mechanical Engineering who wish to minor in Mechanical Engineering must complete the following:

| Prerequisite Courses— Mechanical Engineering Minor | |
|--|-----------|
| CME 201—Statics | 3 |
| One of the following courses: | 3 |
| CS 101—Introduction to Computing (3) | |
| CS 108—Fortran Programming for Engineers (3) | |
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| One of the following courses: | 3 |
| ME 205—Introduction to Thermodynamics (3) | |
| CHE 201—Introduction to Thermodynamics (3) | |
| PHYS 141—General Physics I (Mechanics) | 4 |
| Total Hours—Prerequisite Courses for Mechanical Engineering Minor | 29 |

| Required Courses—Mechanical Engineering Minor | Hours |
|--|--------------|
| CME 203—Strength of Materials | 3 |
| ME 210—Engineering Dynamics | 3 |
| ME 211—Fluid Mechanics I | 4 |
| Two courses from the following: | 6–8 |
| ME 308—Mechanical Vibrations (3) | |
| ME 312—Dynamic Systems and Control (3) | |
| ME 320—Mechanisms and Dynamics of Machinery (4) | |
| ME 321—Heat Transfer (4) | |
| ME 325—Intermediate Thermodynamics (3) | |
| ME 341—Experimental Methods in Mechanical Engineering (3) | |
| ME 380—Manufacturing Process Principles (3) | |
| ME 447—Introduction to Computer Aided Design (3) | |
| Total Hours—Required Courses for Mechanical Engineering Minor | 16–18 |

BS in Industrial Engineering

Industrial engineering is concerned with the design, improvement, and installation of integrated systems of people, material, and equipment. The Industrial Engineering program gives knowledge of principles and methods in engineering design, physical sciences, and social sciences. This knowledge then is used to specify, predict, and evaluate systems. By collecting, analyzing, and arranging such knowledge, industrial engineers enable management to utilize resources effectively and efficiently.

In order to design and operate complex systems, the industrial engineer must acquire comprehensive knowledge in the following areas: manufacturing engineering; production engineering; systems engineering; and human factors, maintenance, and safety engineering.

Manufacturing engineering is involved with planning and selecting manufacturing methods, with designing and developing manufacturing equipment, and with increasing the efficiency and productivity of current manufacturing technologies as well as creating new ones. Manufacturing engineers use materials science, metal cutting and forming theories, stochastic-dynamic models, principles of numerical and adaptive control, engineering statistics, and other physical sciences to solve manufacturing problems. A new area in manufacturing is virtual manufacturing, which combines virtual reality techniques, factory design, equipment design, training, and contamination control in industrial applications.

Production engineering deals with the analysis, design, installation, and maintenance of operational and management systems involved in the production and distribution of goods and services. Such topics as quality control, production scheduling, production planning, inventory control, and maintenance policy are included in this area.

Systems engineering involves the theory and practice of modeling a general system design. The systems engineer develops mathematical, statistical, and computer models of complex systems to predict how a design or policy change will affect the real world. Human factors, maintenance, and safety engineering deal with the problems caused by the interaction of complex man-machine systems. The engineers in this area apply knowledge about sensory, perceptual, and mental characteristics in the engineering design of equipment and facilities to ensure worker comfort and safety.

Because the training of industrial engineers is so broad, they are in demand not only in all types of industry but also in service organizations, such as hospitals, banks, insurance companies, and research laboratories.

The program also emphasizes computer applications, professional ethics, communication skills, ability to work in a multidisciplinary team and awareness of broad education, lifelong learning, and contemporary issues.

The objectives of the Bachelor of Science in Industrial Engineering can be found online http://www.mie.uic.edu/programs/bsie_objectives.htm.

Degree Requirements—Industrial Engineering

To earn a Bachelor of Science in Industrial Engineering degree from UIC, students need to complete University, college, and department degree requirements. The Department of Mechanical and Industrial Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

| BS in Industrial Engineering Degree Requirements | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 56 |
| Required in the College of Engineering | 65 |
| Technical Elective | 3–4 |
| Electives outside the Major Rubric | 3 |
| Free Elective (may be required) | 0–1 |
| Total Hours—BS in Industrial Engineering | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| MATH 310—Applied Linear Algebra | 3 |
| CHEM 112—General College Chemistry I ^b | 5 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| MGMT 340—Introduction to Organizations | 3 |
| Total Hours—Nonengineering and General Education Requirements | 56 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

Required in the College of Engineering

| Courses | Hours |
|--|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CME 201—Statics | 3 |
| CME 203—Strength of Materials | 3 |
| CS 108—Fortran Programming for Engineers | 3 |
| ECE 210—Electrical Circuit Analysis | 3 |
| IE 201—Financial Engineering | 3 |

| | |
|---|-----------|
| IE 441—Ergonomics and Human Factors | 3 |
| IE 342—Probability and Statistics for Engineers | 3 |
| IE 345—Regression Applications and Forecasting in Engineering | 3 |
| IE 365—Work Productivity Analysis | 4 |
| IE 380—Manufacturing Process Principles | 3 |
| IE 396—Senior Design | 4 |
| IE 446—Quality Control and Reliability | 3 |
| IE 461—Safety Engineering | 3 |
| IE 463—Plant Layout and Materials Handling | 3 |
| IE 464—Virtual Automation | 3 |
| IE 466—Production Planning and Inventory Control | 3 |
| IE 467—Discrete Event Computer Simulation Application | 3 |
| IE 471—Operations Research I | 3 |
| IE 472—Operations Research II | 3 |
| ME 250—Engineering Graphics and Design | 3 |
| ME 205—Introduction to Thermodynamics | 3 |
| IE 499—Professional Development Seminar | 0 |
| Total Hours—Required in the College of Engineering | 65 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Technical Elective

| Courses | Hours |
|---|------------|
| One course from the list below: | 3–4 |
| IE 392—Undergraduate Research (3) | |
| ME 210—Engineering Dynamics (3) | |
| ME 211—Fluid Mechanics I (4) | |
| ME 325—Intermediate Thermodynamics (3) | |
| ME 447—Introduction to Computer-Aided Design (3) | |
| Any IE course at the 400-level not required above (3) | |
| Total Hours—Technical Elective | 3–4 |

Electives outside the Major Rubric

| Courses | Hours |
|---|----------|
| Electives outside the IE rubric | 3 |
| Total Hours—Electives outside the Major Rubric | 3 |

Free Elective

| Courses | Hours |
|--|------------|
| Free Elective—One semester hour may be required | 0–1 |

Sample Course Schedule— Industrial Engineering

Freshman Year

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 16 |

^a ENGR 100 is one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |

| | |
|--|-----------|
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| ME 250—Engineering Graphics and Design | 3 |
| CS 108—Fortran Programming for Engineering | 3 |
| Total Hours | 18 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| IE 201—Financial Engineering | 3 |
| CME 201—Statics | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|---|-----------|
| MATH 220—Introduction to Differential Equations | 3 |
| MATH 310—Applied Linear Algebra | 3 |
| CME 203—Strength of Materials | 3 |
| ME 205—Introduction to Thermodynamics | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|---|-----------|
| IE 441—Ergonomics and Human Factors | 3 |
| IE 342—Probability and Statistics for Engineers | 3 |
| IE 365—Work Productivity Analysis | 4 |
| MGMT 340—Introduction to Organizations | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|---|-----------|
| IE 345—Regression Applications and Forecasting in Engineering | 3 |
| IE 380—Manufacturing Process Principles | 3 |
| IE 446—Quality Control and Reliability | 3 |
| ECE 210—Electrical Circuit Analysis | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Senior Year

| First Semester | Hours |
|---|-----------|
| IE 461—Safety Engineering | 3 |
| IE 464—Virtual Automation | 3 |
| IE 467—Discrete Event Computer Simulation Application | 3 |
| IE 471—Operations Research I | 3 |
| Technical Elective | 3 |
| Free Elective | 1 |
| Total Hours | 16 |

| Second Semester | Hours |
|--|-----------|
| IE 396—Senior Design | 4 |
| IE 463—Plant Layout and Materials Handling | 3 |
| IE 466—Production Planning and Inventory Control | 3 |
| IE 472—Operations Research II | 3 |
| IE 499—Professional Development Seminar | 0 |
| Elective outside Major Rubric | 3 |
| Total Hours | 16 |

Minor in Industrial Engineering

For the minor, 12 semester hours are required, excluding prerequisite courses. Students not majoring in Industrial Engineering who wish to minor in Industrial Engineering must complete the following:

| Prerequisite Courses—Industrial Engineering Minor | Hours |
|--|--------------|
| One of the following courses: | 3 |
| CS 101—Introduction to Computing (3) | |
| CS 108—Fortran Programming for Engineers (3) | |
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| MATH 310—Applied Linear Algebra | 3 |
| IE 201—Financial Engineering | 3 |
| Total Hours—Prerequisite Courses for Industrial Engineering Minor | 25 |
| Required Courses—Minor in Industrial Engineering | Hours |
| IE 342—Probability and Statistics for Engineers | 3 |
| IE 446—Quality Control and Reliability | 3 |
| IE 463—Plant Layout and Materials Handling | 3 |
| IE 471—Operations Research I | 3 |
| Total Hours—Required Courses for Minor in Industrial Engineering | 12 |

BS in Engineering Management

The College of Engineering and the College of Business Administration offer a joint program in engineering management that allows students latitude to study in both the business administration and engineering disciplines. This program prepares students to begin careers that may lead to administrative, staff, or management positions in small technological engineering or manufacturing operations or positions as production supervisors, administration staff, or managers of departments in large technological organizations. The program also prepares students for careers in large nontechnological organizations such as banks, which may require a combination of engineering and management experiences.

The Bachelor of Science in Engineering Management is awarded by the College of Engineering. Entrance requirements are the same as for the College of Engineering.

To complete the required 128 semester hours of University credit, students take required courses in engineering as well as courses in business administration, including accounting, finance, marketing, economics, and management. Additionally, there are required courses in English composition, mathematics, chemistry, and physics. Engineering courses are chosen from courses acceptable for other students in the College of Engineering. No more than 32 hours may be taken in courses offered by the College of Business Administration.

Degree Requirements—Engineering Management

To earn a Bachelor of Science in Engineering Management degree from UIC, students need to complete University, college, and department degree requirements. The Department of Mechanical and Industrial Engineering degree requirements are outlined below. Students should consult the *College of Engineering* section for additional degree requirements and college academic policies.

BS in Engineering Management Degree Requirements

| | Hours |
|---|------------|
| Nonengineering and General Education Requirements | 72 |
| Required in the College of Engineering | 52 |
| Elective outside the Major Rubric | 3 |
| Free Elective | 1 |
| Total Hours—BS in Engineering Management | 128 |

Nonengineering and General Education Requirements

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Understanding the Past course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Exploring World Cultures course ^a | 3 |
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 310—Applied Linear Algebra | 3 |
| CHEM 112—General College Chemistry I ^b | 5 |
| PHYS 141—General Physics I (Mechanics) ^b | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^b | 4 |
| ACTG 210—Introduction to Financial Accounting | 3 |
| ACTG 211—Introduction to Managerial Accounting | 3 |
| ECON 120—Principles of Microeconomics ^{cd} | 3 |
| ECON 121—Principles of Macroeconomics ^{cd} | 3 |
| FIN 300—Introduction to Managerial Finance | 3 |
| MGMT 340—Introduction to Organizations | 3 |
| MGMT 350—Business and Its External Environment | 3 |
| MGMT 495—Competitive Strategy | 4 |
| MKTG 360—Introduction to Marketing | 3 |
| Total Hours—Nonengineering and General Requirements | 72 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Analyzing the Natural World General Education category.

^c This course is approved for the Understanding the Individual and Society General Education category.

^d This course is approved for the Understanding U.S. Society General Education category.

Required in the College of Engineering

| Courses | Hours |
|---|----------------|
| ENGR 100—Orientation ^a | 0 ^a |
| CME 201—Statics | 3 |
| CME 203—Strength of Materials | 3 |
| CS 108—Fortran Programming for Engineers | 3 |
| IE 201—Financial Engineering | 3 |
| IE 441—Ergonomics and Human Factors | 3 |
| IE 342—Probability and Statistics for Engineers | 3 |
| IE 345—Regression Applications and Forecasting in Engineering | 3 |
| IE 365—Work Productivity Analysis | 4 |
| IE 380—Manufacturing Process Principles | 3 |
| IE 446—Quality Control and Reliability | 3 |
| IE 461—Safety Engineering | 3 |

| | |
|---|-----------|
| IE 463—Plant Layout and Materials Handling | 3 |
| IE 464—Virtual Automation | 3 |
| IE 466—Production Planning and Inventory Control | 3 |
| IE 467—Discrete Event Computer Simulation Application | 3 |
| IE 471—Operations Research I | 3 |
| IE 472—Operations Research II | 3 |
| IE 499—Professional Development Seminar | 0 |
| Total Hours—Required in the College of Engineering | 52 |

^a ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Elective outside the Major Rubric

| Courses | Hours |
|---|----------|
| Elective outside the IE Rubric and College of Business Administration | 3 |
| Total Hours—Elective outside the Major Rubric | 3 |

Free Elective

| Courses | Hours |
|----------------------------------|----------|
| Total Hours—Free Elective | 1 |

Sample Course Schedule—Engineering Management

Freshman Year

| First Semester | Hours |
|---|----------------|
| MATH 180—Calculus I | 5 |
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ECON 120—Principles of Microeconomics | 3 |
| ENGR 100—Orientation ^a | 0 ^a |
| Total Hours | 16 |

^a ENGR 100 is one-semester-hour course, but the hour does not count toward the total hours required for graduation.

| Second Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| ECON 121—Principles of Macroeconomics | 3 |
| Free Elective | 1 |
| Total Hours | 16 |

Sophomore Year

| First Semester | Hours |
|---|-----------|
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) | 4 |
| IE 201—Financial Engineering | 3 |
| ACTG 210—Introduction to Financial Accounting | 3 |
| CS 108—Fortran Programming for Engineering | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|--|-----------|
| ACTG 211—Introduction to Managerial Accounting | 3 |
| CME 201—Statics | 3 |
| MATH 310—Applied Linear Algebra | 3 |
| MGMT 340—Introduction to Organizations | 3 |
| MKTG 360—Introduction to Marketing | 3 |
| Total Hours | 15 |

Junior Year

| First Semester | Hours |
|---|-----------|
| IE 441—Ergonomics and Human Factors | 3 |
| IE 342—Probability and Statistics for Engineers | 3 |
| IE 365—Work Productivity Analysis | 4 |
| CME 203—Strength of Materials | 3 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Second Semester | Hours |
|---|-----------|
| IE 345—Regression Applications and Forecasting in Engineering | 3 |
| IE 380—Manufacturing Process Principles | 3 |
| IE 446—Quality Control and Reliability | 3 |
| FIN 300—Introduction to Managerial Finance | 3 |
| General Education Core course | 3 |
| Total Hours | 15 |

Senior Year

| First Semester | Hours |
|---|-----------|
| IE 461—Safety Engineering | 3 |
| IE 464—Virtual Automation | 3 |
| IE 467—Discrete Event Computer Simulation Application | 3 |
| IE 471—Operations Research I | 3 |
| MGMT 350—Business and Its External Environment | 3 |
| General Education Core course | 3 |
| Total Hours | 18 |

| Second Semester | Hours |
|--|-----------|
| MGMT 495—Competitive Strategy | 4 |
| IE 463—Plant Layout and Materials Handling | 3 |
| IE 466—Production Planning and Inventory Control | 3 |
| IE 472—Operations Research II | 3 |
| IE 499—Professional Development Seminar | 0 |
| Elective outside Major Rubric | 3 |
| Total Hours | 16 |

COLLEGE OF ENGINEERING ADDITIONAL INTERDISCIPLINARY OPPORTUNITIES

In addition to the programs in Engineering Management (see the Department of Mechanical and Industrial Engineering section) and Engineering Physics (see the Department of Electrical and Computer Engineering section), the College of Engineering offers the following interdisciplinary minors:

- Minor in Environmental Engineering
- Minor in International Studies
- Minor in Materials Engineering

Minor in Environmental Engineering

Growth in the world's population continues to put increasing pressure on resources. Demands in the areas of food, energy, services, and technology also place demands on those resources. The Second Law of Thermodynamics points out that all processes involving heat and useful work exchange energy with the environment. Environmental Engineering is involved, in part, with the cleanliness of that exchange. It involves the study of clean air, clean water, preservation of resources, and waste management in ways that minimize effects detrimental to the earth's environment. The College of Engineering offers a minor area

of study in Environmental Engineering that crosses disciplinary boundaries among engineering specialists and engineering departments. Students interested in the Minor in Environmental Engineering should contact Professor Karl Rockne in the Department of Civil and Materials Engineering at krockne@uic.edu.

For the minor, 15–19 semester hours are required, excluding prerequisite courses. Students who wish to minor in Environmental Engineering must complete the following courses:

| Prerequisite Courses—Environmental Engineering Minor | | Hours |
|---|--|--------------|
| MATH 180—Calculus I | | 5 |
| MATH 181—Calculus II | | 5 |
| MATH 210—Calculus III | | 3 |
| MATH 220—Introduction to Differential Equations | | 3 |
| PHYS 141—General Physics I (Mechanics) | | 4 |
| One of the following courses: | | 3 |
| CS 101—Introduction to Computing (3) | | |
| CS 108—Fortran Programming for Engineers (3) | | |
| CME 201—Statics | | 3 |
| One of the following courses: | | 3–5 |
| CHEM 112—General Chemistry I (5) | | |
| CHEM 116—Honors General Chemistry I (5) | | |
| CHE 201—Introduction to Thermodynamics (3) | | |
| ME 205—Introduction to Thermodynamics (3) | | |
| Total Hours—Prerequisite Courses for Environmental Engineering Minor | | 29–31 |
| Required Courses^a—Environmental Engineering Minor | | Hours |
| Three courses from the following list: | | 9–12 |
| CHE 210—Material and Energy Balances (4) | | |
| CHE 301—Chemical Engineering Thermodynamics (3) | | |
| CHE 321—Chemical Reaction Engineering (3) | | |
| CME 215—Hydraulics and Hydrology (3) | | |
| CS 108—Fortran Programming for Engineers (3) | | |
| ME 325—Intermediate Thermodynamics (3) | | |
| ME 211—Fluid Mechanics (4) | | |
| OR | | |
| CHE 311—Transport Phenomena I (3) | | |
| CHE 312—Transport Phenomena II (3) | | |
| OR | | |
| ME 321—Heat Transfer (4) | | |
| One of the following courses: | | 3–4 |
| CHE 421—Combustion Engineering (3) | | |
| ME 426—Applied Combustion (3) | | |
| ME 429—Internal Combustion Engines (3) | | |
| ME/CHE 450—Air Pollution Engineering (4) | | |
| One of the following courses: | | 3 |
| CHE 413—Introduction to Flow in Porous Media (3) | | |
| CME 494—Special Topics in Civil Engineering, Mechanics, and Materials (when topic is Treatment of Wastewater) (3) | | |
| ME 318—Fluid Mechanics II (3) | | |
| Total Hours—Required Courses for Environmental Engineering Minor | | 15–19 |

^a At least two courses must be outside the student's department.

Minor in International Studies

The scope of operations for many engineering companies is becoming more international each year. These companies are placing a percentage of their engineers outside the United States. In order to be prepared for living and working in a different culture, the College of Engineering offers the International Studies Minor, a cluster of courses related to a specific country outside of the United States.

The International Studies Minor consists of the following requirements:

- 18–21 semester hours of credit in foreign language and cultural studies courses related to a foreign country or geographical area of the world outside of the U.S. It is recommended that a majority of credit hours should be in nonlanguage courses.
- Minimum grade point average of 2.00/4.00.
- An academic or technical/industrial experience outside the U.S. that is supported by documentation.

Engineering students interested in completing the International Studies Minor should consult the associate dean of undergraduate administration in the College of Engineering in 102 SEO.

Minor in Materials Engineering

Materials selection is a part of most areas of engineering. As technology advances and the envelope of new achievement is enlarged, many demands are placed on materials for operating under more extreme conditions. Higher temperature tolerance, higher strength, lower weight, reduced corrosion susceptibility, and better compatibility with other materials and fluids become important considerations. Materials engineering involves the understanding and characterization of materials for such considerations, and the College of Engineering offers it as a minor area of study crossing disciplinary boundaries in engineering and basic science. Students interested in the Minor in Materials Engineering should contact Professor Michael McNallan in the Department of Civil and Materials Engineering at mcnallan@uic.edu.

For the minor, 14–19 semester hours are required, excluding prerequisite courses. Students who wish to minor in Materials Engineering must complete the following:

| Prerequisite Courses—Materials Engineering Minor | | Hours |
|---|--|--------------|
| MATH 180—Calculus I | | 5 |
| MATH 181—Calculus II | | 5 |
| PHYS 141—General Physics I (Mechanics) | | 4 |
| One of the following courses: | | 5 |
| CHEM 112—General Chemistry I (5) | | |
| CHEM 116—Honors General Chemistry I (5) | | |
| Total Hours—Prerequisite Courses for Materials Engineering Minor | | 19 |
| Required Courses^a—Materials Engineering Minor | | Hours |
| One of the following courses: | | 2–3 |
| CME 260—Properties of Materials (3) | | |
| CME 261—Materials for Manufacturing (2) | | |
| Four courses from the following: | | 12–16 |
| BIOE 460—Materials in Bioengineering (3) | | |
| CHE 440—Non-Newtonian Fluids (3) | | |
| CHE 494—Selected Topics in Chemical Engineering (when topic is Design of Microelectronics Processing) (1–4) | | |
| CME 433—Fracture Mechanics and Failure Analysis I (3) | | |
| CME 460—Crystallography and X-Ray Diffraction (4) | | |
| CME 470—Physical and Mechanical Properties of Materials (4) | | |
| CME 471—Thermodynamics of Materials (3) | | |
| CME 480—Welding Metallurgy (4) | | |
| EAES 424—X-Ray Crystallography (4) | | |
| ECE 346—Solid State Device Theory (4) | | |
| ECE 347—Integrated Circuit Engineering (3) | | |
| ECE 449—Microdevices and Micromachining Technology (4) | | |
| ME 380—Manufacturing Process Principles (3) | | |
| PHYS 481—Modern Experimental Physics I (4) | | |
| Total Hours—Required Courses for Minor in Materials Engineering | | 14–19 |

^a Some of these courses have prerequisites not included in the minor. Consult the Course Descriptions in the catalog or the Schedule of Classes for course prerequisites.

Honors College

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Administration:

Executive Associate Dean, Janet I. Madia

Associate Dean, Laura Junker

Assistant Dean, Stacie Williams

Introduction

The Honors College enhances opportunities for intellectual challenge and leadership by fostering a community of academic excellence, connecting students with premier faculty mentors, and promoting civic engagement. By bringing together exceptional students, faculty members, and staff, the Honors College is a destination for advanced intellectual growth and a foundation for lifelong learning.

Each term, Honors College students are required to complete an honors activity, which enriches their experiences at UIC. Students must also maintain a minimum grade point average of 3.40/4.00. During each semester of the freshman year, students enroll in an interdisciplinary honors core course, which completes the honors activity requirement and fulfills University degree requirements. These courses are taught by faculty members from various departments and address significant themes in general education. In addition, freshmen may opt to take additional honors courses in a wide range of subjects such as calculus, economics, art history, chemistry, and so forth.

Beyond the freshman year, students choose from a variety of honors options. These include honors courses, honors seminars in a broad range of disciplines, independent research projects, tutoring in the college peer tutoring program, honors projects in regular courses, academic service learning, and senior theses. All of these activities are monitored within a faculty advising/mentoring system that is one of the college's major strengths.

At the end of the first year, students are assigned to an Honors College fellow, who is a mentor in the student's major department. The fellows, faculty interested in working with honors students, include many of UIC's outstanding scholars. They act as advisors for students' honors work and as resources for advice and guidance on students' majors, curricula, preparation for graduate school, and careers. The Honors College fellow mentoring process puts students into close and continuing contact with faculty members at an early stage in their postsecondary education.

The Honors College provides merit- and need-based scholarship opportunities for beginning freshmen. For example, the Howard Kerr Scholarships cover tuition and fees and are renewable for up to four years. Other freshman scholarships range from \$500 to full tuition. Also, the college offers financial support to honors students pursuing research or international study via the Kabbes Scholarships for Undergraduate Research and the Flaherty Scholarships for Study Abroad. The college also offers tuition awards to its continuing student body; these scholarships are distributed based on a combination of merit and need. Other scholarship support for continuing Honors College students is also available; check the College Web site at <http://www.hc.uic.edu> for more information.

Honors College students appreciate the availability of facilities reserved exclusively for their use, including a computer lab, social and study lounges, and photocopying facilities. They also enjoy events, such as student-faculty luncheons, monthly socials, and the annual Honors College Ball. Honors College students produce a college newsletter

(*Ampersand*), and a number of other publications, including an undergraduate literary journal (*Red Shoes Review*), pre-health professions journal (*Journal of Pre-Health Affiliated Students*), and global issues journal (*One World*). Honors College students also receive extended library privileges.

UIC honors students may take advantage of specially designated honors housing. In addition to sharing living space with other Honors College students, students participate in educational and social activities designed to create a special living/learning environment and a sense of an honors residential community.

Admission to the College

Student members of the Honors College are undergraduates representing all UIC colleges and departments. Entering freshmen who have a strong high school academic record, as well as extracurricular or leadership experiences, are encouraged to apply for membership. Transfer students with a GPA of 3.40/4.00 and continuing UIC students with a minimum cumulative GPA of 3.40/4.00 who have at least three semesters left before graduation are also encouraged to apply. More detailed information about the admission process is available on the Honors College Web site <http://www.hc.uic.edu>.

College Requirements

All students in the Honors College are expected to fulfill the following requirements to ensure continued membership:

- Successful completion of an honors activity each term (except summer)
- Enrollment in HON 222—Honors Activity each term (except summer) for honors work to be reflected on their transcripts
- Minimum cumulative UIC GPA of 3.40/4.00
- Honors capstone project

College Policies

Probation and Dismissal Rules

Any student in the Honors College whose UIC cumulative GPA falls below 3.15/4.00 or who does not fulfill the honors activity requirement is automatically dismissed from membership in the college and denied attendant privileges. Students with cumulative averages between 3.15 and 3.40 are placed on probationary status. These students have one semester to raise their cumulative average to 3.40. Students on probation are expected to fulfill all other Honors College requirements.

Academic Honors

Honors College Recognition

Honors College membership status is noted annually on student transcripts. Students graduating as Honors College members receive a gold stole to wear with their academic attire at their home college commencement and Honors College convocation ceremonies.

Honors Societies

The following list of honors societies is provided for students' convenience. Phi Eta Sigma, Phi Kappa Phi, and Tau Sigma are the only honors societies that are administratively housed in the Honors College.

Alpha Eta Mu Beta Chapter

Alpha Eta Mu Beta (AEMB) is an association of biomedical engineers who share a common desire to recognize and encourage excellence in biomedical engineering. This is accomplished in part by promoting and recognizing high

scholarship, leadership, and character among biomedical engineering students. AEMB membership requires a GPA in the top one-third of the class, for seniors; or top one-fifth of the class, for juniors. For more information contact the Department of Bioengineering, (312) 996-2335, or visit the departmental Web site <http://www.uic.edu/depts/bioe/index.html>.

Beta Alpha Psi

Beta Alpha Psi is an international scholastic and professional business and financial information fraternity. Its purpose is to recognize outstanding academic achievements in the field of accounting, finance, and information systems; promote the study and practice of professional fields related to these disciplines; provide opportunities for self-development and association among members and practicing financial professionals; and to encourage a sense of ethical, social, and public responsibilities. The UIC Chapter of Beta Alpha Psi was established in 1994. More information on the fraternity can be obtained from the Accounting Department of the College of Business Administration.

Beta Beta Beta

Beta Beta Beta (Tri-Beta), the National Biology Honors Society, was founded in 1922. Omega Zeta, the UIC chapter of Tri-Beta, was started in 1985 and invites applications from eligible undergraduate students. Tri-Beta is dedicated to improving the understanding and appreciation of biology by extending the boundaries of human knowledge through participation in scientific research. Full membership is open to any student who has two years of credit in biology and a 3.00/4.00 GPA. Associate membership is available to students who do not meet all of the qualifications for full membership. Members participate in district and national conventions, are eligible for monetary awards for outstanding research, and receive and are eligible to publish results of their research findings in the society's journal, *BIOS*. Visit the Omega Zeta Web site http://www2.uic.edu/stud_orgs/hon/tribeta/. The faculty sponsor is Professor Howard E. Buhse, Jr.; contact him by email at spasmin@uic.edu or by phone at (312) 996-2997.

Beta Gamma Sigma

Beta Gamma Sigma is the honor society for the best students in business programs accredited by AACSB International—The Association to Advance Collegiate Schools of Business. Membership in Beta Gamma Sigma is the highest recognition business students throughout the world can receive in undergraduate or master's programs accredited by AACSB International. Eligibility for membership requires juniors to be in the top 7%, seniors to be in the top 10%, and graduate students in the top 20% of their respective classes. The UIC Chapter of BGS was established in 1973. More information on the honor society can be obtained from the College of Business Administration.

Delta Phi Alpha

The Delta Phi Alpha National German Honorary Society began with the founding of the Alpha chapter at Wofford College in 1927 and now has constituent chapters at 236 colleges and universities throughout the United States. UIC's chapter was founded in 1968. The National German Honor Society seeks to recognize excellence in the study of German and to provide an incentive for higher scholarship. Qualifications for membership are as follows: a minimum of two years of college or university German or the equivalent, a minimum average of B+ or the equivalent in German courses, a minimum cumulative average of B- or the equivalent, and an indication of continued interest in the study of German language and literature. For more information, contact Dr. Elizabeth Loentz in the Department of Germanic Studies at (312) 996-3205.

Eta Kappa Nu

Eta Kappa Nu is the international honor society for electrical and computer engineers. Founded in 1904, its purposes include the stimulation and reward of scholarship as well as assisting fellow members and nonmembers alike to improve the standards of the profession, the courses of instruction, and the institutions generally where its chapters are established. In order to be invited to join UIC's Iota Lambda Chapter of the society, the minimum requirements for electrical and computer engineering majors are junior standing with a cumulative grade point average in the top quarter, or senior standing with a cumulative grade point average in the top third of their electrical and computer engineering classes. Demonstrated community service is also a requirement for induction into Eta Kappa Nu. For more information, contact the Department of Electrical and Computer Engineering at (312) 996-3423.

Eta Sigma Phi

Eta Sigma Phi is the national honorary collegiate society for students of Latin and/or Greek. The purposes of the society, in the words of the constitution, are "to develop and promote interest in classical study among the students of colleges and universities; to promote closer fraternal relationship among the students who are interested in classical study, including intercampus relationship; to engage generally in an effort to stimulate interest in classical study, and in the history, art, and literature of ancient Greece and Rome." Active membership is limited to undergraduates who are enrolled in classes in Latin and/or Greek in the original languages. A student must meet the basic qualifications of an attained grade of not less than B in courses in Latin and Greek, with completion of at least one semester or two quarters. Please contact John T. Ramsey, Professor of Classics, or Paul Griffiths, Chair of the Department of Classics and Mediterranean Studies at (312) 996-5530 for more information.

Gamma Kappa Alpha

Gamma Kappa Alpha, the national Italian honor society (the UIC Chapter was granted in 1986) for juniors and seniors, is designed to recognize outstanding scholastic performance in the fields of Italian language and literature. To be eligible, a student must have a minimum cumulative grade point average of 2.75/4.00 and a 3.00/4.00 GPA in all Italian courses taken. For information, contact the Department of Spanish, French, Italian, and Portuguese at (312) 996-3236.

Golden Key National Honor Society

The Golden Key National Honor Society was founded in 1977 as a nonprofit organization whose purpose is to recognize and encourage academic excellence in all fields of endeavor. Membership is by invitation only and is offered to all full- or part-time students who have maintained a cumulative grade point average of 3.30/4.00 or higher and have successfully completed a minimum of 60 hours. For more information, contact Dave Borgealt at (312) 996-0911.

Lambda Alpha

Lambda Alpha, the National Collegiate Honors Society for Anthropology, works to encourage and stimulate scholarship and research in anthropology by recognizing and honoring superior achievement in the discipline among students, faculty, and other persons engaged in the study of anthropology. To be eligible for membership in Lambda Alpha, students need to have taken 12 hours of anthropology course work and maintained a B average. There is a onetime membership fee of \$25 that gives students lifetime membership in the organization. Please contact the Department of Anthropology at (312) 996-3114 for more information.

Phi Beta Kappa

Founded in 1776, Phi Beta Kappa is the oldest scholastic honor society in the United States. The UIC chapter charter was granted in 1976. Phi Beta Kappa stresses excellence, broad liberal education, and moral leadership. Elections to Phi Beta Kappa are made in accordance with its own rules. The University assumes no responsibility for elections. For information, call Josephine Volpe at (312) 355-2477.

Phi Eta Sigma

Membership in this national honor society is open to all freshmen who meet the qualifications established by the National Grand Chapter of Phi Eta Sigma. To be eligible, a candidate must be a full-time student who has attained a 3.50/4.00 grade point average in the first academic term. For more information, contact the Honors College at (312) 413-2260.

Phi Kappa Phi

Founded in 1897 (UIC chapter in 1973), Phi Kappa Phi is an honor society recognizing excellence in all academic disciplines, open to juniors, seniors, and graduate students. Up to 10 faculty members are also elected each year. Elections to Phi Kappa Phi are made in accordance with its own rules. The University assumes no responsibility for elections. The society offers membership to students of high caliber who meet its requirements: (1) for juniors (60 semester hours, 30 of which must be graded hours in enrollment residence), a cumulative grade point average of 3.75/4.00, (2) for seniors (90 semester hours, 30 of which must be graded hours in enrollment residence), a cumulative GPA of 3.50/4.00, OR (3) for graduate students, nomination by departments of graduate study. For more information, contact the Honors College at (312) 413-2260.

Pi Sigma Alpha

The Mu Alpha Chapter (established in 1981) of Pi Sigma Alpha, the National Political Science Honor Society, inducts junior or senior undergraduate majors in political science with a minimum overall grade point average of 3.25/4.00 and 3.50 in their major.

Pi Tau Sigma

Pi Tau Sigma is the national honor society for mechanical engineers and was founded in 1915. The Alpha Sigma chapter at UIC was established in 1999. Its purpose is to encourage and recognize superior scholarship, to foster the high ideals of the engineering profession, to stimulate interest in coordinated departmental activities, and to develop in students of mechanical engineering the attributes for effective leadership. Active membership is open to full-time junior- and senior-level mechanical engineering students with a grade point average above 3.25/4.00 and who rank in the top third of their class. Graduate students and faculty members may become honorary members at the society's discretion. For more information, please contact the Department of Mechanical Engineering at (312) 996-5317.

Psi Chi

Psi Chi is the National Honor Society in Psychology. Founded in 1929, Psi Chi provides recognition for academically strong undergraduate majors and minors in psychology. Neuroscience majors who have completed all requirements for the minor in psychology are also eligible. Psi Chi sponsors speakers and informational seminars are designed to enhance professional growth and to create a sense of fellowship among its members. Membership is open to students who have at least 9 semester hours in psychology courses and whose grade point average is 3.25

or higher overall and 3.40 or higher in psychology. For more information about Psi Chi, visit the Psi Chi Web site at http://www2.uic.edu/stud_orgs/hon/psichi/index.htm.

Rho Chi

The Rho Chi Society, pharmacy's academic honor society, encourages and recognizes excellence in intellectual achievement and advocates critical inquiry in all aspects of pharmacy. Further, the society encourages high standards of conduct and character and fosters fellowship among its members. The society envisions that it will seek universal recognition of its members as lifelong intellectual leaders in pharmacy and, as a community of scholars, will instill the desire to pursue intellectual excellence and critical inquiry to advance the profession. The full collegiate membership of the society shall consist of professional (entry-level, postbaccalaureate, and nontraditional) students, graduate students, and members of the teaching staff who have been duly elected in accordance with the National Rho Chi Society Bylaws. The undergraduate professional entry-level student who is elected to active membership is one who has completed no less than one-half of the required professional didactic course work and ranks in the highest twenty percent of the class. The student also must have attained a minimum grade point average of 3.00/4.00. For more information, call Professor Patricia West at (312) 996-5695.

Sigma Delta Pi

The purpose of Sigma Delta Pi, the National Collegiate Hispanic Honor Society (charter granted to UIC in 1989), is designed to honor those students who attain excellence in the study of the Spanish language and the culture of the Spanish speaking peoples. The Rho Psi Chapter offers membership to qualified juniors and seniors. To be eligible, a student must have a minimum cumulative grade point average of 2.75/4.00 and a 3.00 average in all Spanish courses taken, including at least 3 semester hours in Hispanic literature at the junior (third-year) level. For information, contact the Department of Spanish, French, Italian, and Portuguese at (312) 996-3236.

Sigma Theta Tau

The stated purpose of this group is to recognize the achievement of scholarship and leadership qualities, to foster high professional standards, encourage creative work, and strengthen individual commitments to the ideals and purposes of the nursing profession. Membership is composed of students, faculty, and alumni of the College of Nursing chosen on the basis of demonstrated scholarship, professional potential, and/or marked achievement in the field of nursing. For information, call the College of Nursing at (312) 996-7800.

Tau Beta Pi

Tau Beta Pi (TBP) is the second oldest honor society in the United States (Phi Beta Kappa being the first) and accepts into its membership students from all engineering disciplines. Not merely an honor society, TBP serves the engineering and campus community by organizing technical and nontechnical workshops, tutoring, career services, and outreach activities. Students are eligible for membership based on scholastic achievement and exemplary character. To be eligible, a candidate must be a full-time student, and have a GPA in the top one-fifth of the class, for seniors; or top one-eighth of the class, for juniors. Members are recognized at the time of graduation and for life. Detailed information can be obtained from the College of Engineering, or the chapter Web site <http://www.ece.uic.edu/~tbp/>.

Tau Sigma

Tau Sigma is an academic honor society designed specifically to recognize and promote the academic excellence and involvement of transfer students. Tau Sigma was incorporated as a nonprofit in 1999 with Auburn University being the home of the first chapter. The objectives of Tau Sigma are to recognize outstanding academic achievement of transfer students; provide motivation for the academic excellence of all incoming transfer students; enhance the reputation of all transfer students; provide a common bond among transfer students; promote the involvement of transfer students; and form a group of students who can help the University address and meet the needs of incoming transfer students.

The UIC Chapter of Tau Sigma was started in 2006. Students who transfer to the University with at least one full year's worth of academic credit and earn a 3.50/4.00 or higher GPA after their first term at UIC are invited to join Tau Sigma. For more information, call the Honors College at (312) 413-2260.

College of Liberal Arts and Sciences

Dean, Dwight A. McBride
Third Floor, University Hall (UH)
(312) 996-3366

<http://www.uic.edu/las/college>

Student Academic Affairs Office: Senior Associate Dean,
Emanuel D. Pollack, Third Floor, UH
Academic Advising: (312) 996-3366

Introduction

The College of Liberal Arts and Sciences (LAS) offers diverse programs and a wide range of courses within the modern tradition of the liberal arts. This tradition assumes the primacy of education over training, a principle reflected in the academic structure of the college. In the college, learning is divided into the three disciplines: humanities, the study of human cultures and the arts; natural sciences, the empirical study of the natural universe; and social sciences, the scientific study of societies. Additionally, LAS provides many opportunities for interdisciplinary studies that can be integral to a well-rounded college education.

As part of the degree program, students must complete course work in their chosen discipline in a broad context of knowledge out of which students may develop special interests. Through this balance between specialization in a chosen field and study of a more generalized program, a liberal arts education can help students develop an understanding of the complexities of the world and themselves. This form of education allows students a wide range of choices after graduation and prepares them for continuing education throughout life.

Degree Requirements

To earn a College of Liberal Arts and Sciences degree from UIC, students need to complete University, college, and department degree requirements.

Because this catalog is published in alternate years, changes to the graduation requirements also may be announced in an online format. If requirements are changed, continuing students in LAS and those whose attendance at UIC has been interrupted for no more than two years may complete the current graduation requirements or may continue to meet those requirements in effect at the time of initial registration. Students who return to UIC after an absence of more than two years are responsible for meeting the requirements of the University and college as well as the major or curriculum in effect at the time of the student's reenrollment. For all students, however, if courses originally required are no longer offered or if external accrediting or certifying agencies modify their requirements, the college or department will specify substitutes.

University and college degree requirements for all College of Liberal Arts and Sciences students are outlined below. Students should consult their department section for additional degree requirements.

Semester Hour Requirement (see next page)

Course Requirements

General Education and Writing-in-the-Discipline

Students are required to complete the following course requirements in order to earn a degree in the College of Liberal Arts and Sciences. Proficiency in academic writing and quantitative reasoning is essential to success in all

degree programs. Therefore, all LAS undergraduate students shall, in their first year, register for courses that satisfy the University Writing and Quantitative Reasoning requirements, or for such preparatory courses as may be indicated by placement tests, and shall continue to register in such courses until the requirements have been satisfied. Students who fail to follow these guidelines will be subject to academic probation and other sanctions. The remaining course requirements, with the exception of the Writing-in-the-Discipline requirement, should be completed as early in the college career as feasible.

Note: The table below outlines LAS General Education and Writing-in-the-Discipline requirements. The number of credit hours a student is required to take to fulfill these requirements will vary. Please read the explanatory notes that follow on General Education Core, General Education Proficiencies, and Writing-in-the-Discipline for more information on fulfilling these requirements.

| General Education and Writing-in-the-Discipline | Requirement (Typical Hours) |
|--|---|
| Analyzing the Natural World ^a | Two laboratory courses (6–10) |
| Exploring World Cultures ^a | One course (3) |
| Understanding the Creative Arts ^a | One course (3) |
| Understanding the Individual and Society ^a | One course (3) |
| Understanding U.S. Society ^a | One course (3) |
| Understanding the Past ^a | One course (3) |
| Two elective courses from any General Education Core category ^a | Two courses (6) |
| Foreign Language | Four semesters of a single foreign language at the college level (0–16) |
| Quantitative Reasoning | One course (3–5) |
| University Writing Requirement | ENGL 160 and 161 (6) |
| Writing-in-the-Discipline | One course (0–3) |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. The following General Education Core requirements for the College of Liberal Arts and Sciences satisfy the University's minimum requirements. Students in the College of Liberal Arts and Sciences are required to take nine total courses. Of those, seven are prescribed: two laboratory courses in Analyzing the Natural World and one course in each of the five other categories. The remaining two courses may be chosen freely from among any of the six categories.

Students who register for a course that is listed in more than one category will have flexibility in deciding which category the course will satisfy. They will not have to decide right away but may wait to see how their plan of study develops over time. The course, however, will fulfill the requirement of only one category. In other words, the course will not satisfy the requirement of two categories just because it is listed in two categories.

The General Education Core categories are as follows

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and list of courses for each General

Semester Hour Requirement

Each of the degree programs listed below requires a total of 120 semester hours.

| Degree Program | Department | Degree Conferred | Total Hours |
|--|---|--|-------------|
| African American Studies | African American Studies | BA in Liberal Arts and Sciences | 120 |
| Anthropology | Anthropology | BA in Liberal Arts and Sciences | 120 |
| Biochemistry | Interdepartmental | BS in Biochemistry | 120 |
| Biological Sciences | Biological Sciences | BS in Liberal Arts and Sciences | 120 |
| Chemistry—BA | Chemistry | BA in Liberal Arts and Sciences | 120 |
| Chemistry—BS | Chemistry | BS in Chemistry | 120 |
| Chemistry—Teacher Education | Chemistry | BS in the Teaching of Chemistry | 120 |
| Classical Civilization | Classics and Mediterranean Studies | BA in Liberal Arts and Sciences | 120 |
| Classical Languages and Literatures ^a | Classics and Mediterranean Studies | BA in Liberal Arts and Sciences | 120 |
| Communication | Communication | BA in Liberal Arts and Sciences | 120 |
| Criminology, Law, and Justice | Criminology, Law, and Justice | BA in Liberal Arts and Sciences | 120 |
| Earth and Environmental Sciences | Earth and Environmental Sciences | BS in Liberal Arts and Sciences | 120 |
| Economics | Economics | BA in Liberal Arts and Sciences | 120 |
| English | English | BA in Liberal Arts and Sciences | 120 |
| English—Teacher Education | English | BA in the Teaching of English | 120 |
| French | Spanish, French, Italian, and Portuguese | BA in Liberal Arts and Sciences | 120 |
| French—Teacher Education | Spanish, French, Italian, and Portuguese | BA in the Teaching of French | 120 |
| Gender and Women's Studies | Gender and Women's Studies | BA in Liberal Arts and Sciences | 120 |
| Germanic Studies | Germanic Studies | BA in Liberal Arts and Sciences | 120 |
| Germanic Studies—Teacher Education | Germanic Studies | BA in the Teaching of German | 120 |
| History | History | BA in Liberal Arts and Sciences | 120 |
| History—Teacher Education | History | BA in the Teaching of History | 120 |
| Italian ^b | Spanish, French, Italian, and Portuguese | BA in Liberal Arts and Sciences | 120 |
| Latin American and Latino Studies | Latin American and Latino Studies | BA in Liberal Arts and Sciences | 120 |
| Mathematics | Mathematics, Statistics, and Computer Science | BS in Liberal Arts and Sciences | 120 |
| Mathematics—Teacher Education | Mathematics, Statistics, and Computer Science | BS in the Teaching of Mathematics | 120 |
| Mathematics and Computer Science | Mathematics, Statistics, and Computer Science | BS in Mathematics and Computer Science | 120 |
| Neuroscience | Interdepartmental | BS in Neuroscience | 120 |
| Philosophy | Philosophy | BA in Liberal Arts and Sciences | 120 |
| Physics—BA | Physics | BA in Liberal Arts and Sciences | 120 |
| Physics—BS | Physics | BS in Physics | 120 |
| Physics—Teacher Education | Physics | BS in the Teaching of Physics | 120 |
| Polish | Slavic and Baltic Languages and Literatures | BA in Liberal Arts and Sciences | 120 |
| Political Science | Political Science | BA in Liberal Arts and Sciences | 120 |
| Psychology | Psychology | BA in Liberal Arts and Sciences | 120 |
| Russian | Slavic and Baltic Languages and Literatures | BA in Liberal Arts and Sciences | 120 |
| Sociology | Sociology | BA in Liberal Arts and Sciences | 120 |
| Spanish | Spanish, French, Italian, and Portuguese | BA in Liberal Arts and Sciences | 120 |
| Spanish—Teacher Education | Spanish, French, Italian, and Portuguese | BA in the Teaching of Spanish | 120 |
| Spanish-Economics | Spanish, French, Italian, and Portuguese | BA in Spanish-Economics | 120 |
| Statistics and Operations Research | Mathematics, Statistics, and Computer Science | BS in Statistics and Operations Research | 120 |

^a The BA with a Major in Classical Languages and Literatures program is suspended effective fall 2010.

^b Until further notice, the BA with a Major in Italian program is not accepting applications for admission.

Note: Degrees in teacher education generally require additional courses for teacher certification beyond the 120 semester hours.

Education Core category, students should consult the *General Education* section of the catalog.

Note: Up to two courses in the major may count toward fulfillment of General Education Core requirements. Students should see their department sections to determine if their major includes any approved General Education Core courses.

General Education Proficiencies—Foreign Language Requirement, Quantitative Reasoning Requirement, and University Writing Requirement

Foreign Language Requirement

The basic requirement is proficiency in a language that has a recognized literature or culture. The level of proficiency must be the equivalent of that expected of the student who has completed the elementary and intermediate levels of language study (the first two years) at the University of Illinois at Chicago. Students enrolled in foreign language courses at UIC are strongly encouraged to register in required language courses in consecutive semesters until the requirement is met. Students may satisfy the requirement in any one of several ways:

1. By presenting qualifying scores on Advanced Placement examinations in foreign language or a qualifying score on a UIC foreign language placement test or other authorized proficiency test for languages not offered at UIC.
2. By transferring credit for two years of a single language at the college level. With college approval, a student transferring from another university or another UIC college who has never been enrolled in LAS, who is admitted with senior standing and who has not satisfied the language requirement may do so by passing one course in a language sequence during each term in enrollment residence at UIC. Seniors admitted with foreign language transfer credit must consult a dean for application of this rule.
3. By completing four semesters of language courses at UIC. The college currently offers complete sequences in Arabic, Chinese, French, German, Modern Greek, Hebrew, Italian, Japanese, Latin, Lithuanian, Polish, Russian, and Spanish.
4. By completing a partial sequence of language courses as determined by the results of a placement test or placement by a language department. The college determines eligibility for credit in a recommended course.
5. By presenting evidence of secondary education completed in a country where the language of instruction was other than English. No elementary- or intermediate-level course or proficiency credit will be given for that language. The language requirement, however, will be considered fulfilled only if the student consults a dean for application of this rule and receives conditional approval.
6. By transferring four semesters of credit in American Sign Language courses from an accredited U.S. college or university. Courses must include the study of deaf culture.

Quantitative Reasoning Requirement

Students in the College of Liberal Arts and Sciences must demonstrate competency in quantitative reasoning to earn a degree. Such competence can be demonstrated in any one of the following ways:

1. Achievement of a score on the mathematics placement examination high enough to qualify for enrollment in Mathematics 180. Placement in Mathematics 180 may be by other means deter-

mined by the Department of Mathematics.

2. Grade of C or better in any one of the following courses: Mathematics 121, 123, 145, 150, 160, 165, 180, Statistics 101.
3. Grade of C or better in a mathematically oriented course in a department in LAS other than Mathematics. Such courses must require Mathematics 090 or 118 as a prerequisite. At present, such courses include Communication 201; Criminology, Law, and Justice 262; Political Science 201; Psychology 343; and Sociology 201.
4. Grade of C or better in a logic course in the Department of Philosophy: Philosophy 102 or 210.
5. Transfer students may present equivalent courses taken elsewhere, for which they have received a grade of C or better, to satisfy this requirement.

University Writing Requirement

Each student must demonstrate proficiency in written expression by the successful completion of English 160 and 161. The student's performance on the writing placement test determines whether English 070, 071, ESL 050, or 060 must be completed as a prerequisite to English 160. Students may receive 3 hours of proficiency credit in English 160 based on the ACT English subscore. All students must complete English 161.

No graduation credit is given for ENGL 070 or 071, which are preparatory courses for UIC's required academic writing sequence. Upon completion of either of these courses, however, the English Department may recommend a waiver of ENGL 160 based on final course assessment. Students who receive this waiver earn 3 hours of proficiency credit for ENGL 160 and placement into ENGL 161.

Writing-in-the-Discipline Requirement

As part of the major, students must successfully complete at least one course that requires extensive writing. This course should be taken before the beginning of the student's last semester. A required Writing-in-the-Discipline course is included in each degree program.

Other Requirements

Course Level Requirement

A student must earn a minimum of 40 semester hours in advanced-level courses (those numbered 200- and above) at UIC or any accredited four-year college or university. At least 12 semester hours of these 40 advanced hours must be taken in the major field while in enrollment residence at UIC. Community college work, regardless of the course number or level, is not considered advanced for the purposes of this requirement.

Course Work Limitations

Course work completed at UIC and other accredited institutions is not automatically applicable toward graduation requirements. The final decision regarding the acceptance of credit and courses that apply toward degree requirements is made by the College of Liberal Arts and Sciences. Course work considered by the college office as nonbaccalaureate or remedial is not accepted toward the degree. Course work that duplicates previous work is counted toward graduation, whereas the original course work does not count. No credit is given for a course in which a failing grade is received. Credit for prerequisite courses will not be permitted if taken after advanced work in the same area.

The College of Liberal Arts and Sciences restricts degree credit as follows:

- No more than 3 semester hours of credit in basic kinesiology activity courses may apply toward the degree. Basic activity courses at UIC include all

kinesiology courses numbered 100–149 and all courses numbered 200–248.

- Credit in basic military science is not applicable toward the degree. A maximum of 6 semester hours of credit in advanced military science courses (those numbered at the 200- and 300-levels at UIC) may apply toward the degree.
- Credit in individual performance courses is limited to 8 semester hours.
- No credit is given for doctrinal and canonical course work taken in seminaries or any other institution that provides religious or sectarian training.
- No more than 16 semester hours of independent study may apply toward the degree. The maximum degree credit in independent study in an individual department or program is 8 semester hours. Fieldwork and internship courses that are formally required for the major are excluded from this limitation.
- A maximum of 24 semester hours in courses offered by other UIC colleges and acceptable by the College of Liberal Arts and Sciences may be applicable toward the degree. Acceptable non-LAS transfer courses must be equivalent to those offered by other UIC colleges. In cases where majors, minors, and curricula require courses not offered in the College of Liberal Arts and Sciences, the student may take no more than 24 hours of non-LAS courses in addition to those non-LAS courses required for the program.

Elective Credit

The major and LAS course requirements together generally do not provide the entire 120 semester hours required for graduation. Known as electives, those hours remaining should serve to enrich a student's educational background either through work allied to the major or in courses that can generally increase knowledge and understanding. Elective courses should always be chosen by a student for educational reasons, not simply for convenience or for credit hours.

Grade Point Average (GPA) Requirement

A student must earn a cumulative grade point average of at least 2.00/4.00 in all work taken at UIC. In addition, the combined average of a student's transfer work and work taken at UIC must be at least 2.00. A minimum grade point average of 2.00 is required for all courses in the major field. In addition, the combined average of transfer work and work taken at UIC in all courses in the major field must be at least 2.00. Some majors may require a higher grade point average. Failure to maintain the required minimum grade point average in the major may result in the student being dismissed from that major.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. Students who do not have access to *Student Self-Service* should contact the LAS Student Academic Affairs Office to file the Intent to Graduate form. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Enrollment Residence Requirement

For the major, a student must complete at least one-half of the course work required for the major, excluding collateral course requirements, in enrollment residence at the University of Illinois at Chicago. The major course work completed in enrollment residence must include at least 12 semester hours at the advanced level.

For all course work, either the first 90 semester hours or the last 30 semester hours of degree work must be completed in continuous, uninterrupted enrollment residence at the University of Illinois at Chicago. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement.

Work taken at the Springfield and Urbana-Champaign campuses of the University of Illinois does not satisfy these requirements. Credit earned through proficiency examinations including the College Level Examination Program (CLEP), UIC extension courses, and Urbana-Champaign distance-learning courses does not apply toward the minimum 30-semester-hour enrollment residence requirement. Study abroad and distance-learning courses that have been approved by the student's major department and by the college are not considered an interruption of enrollment residence for students in the College of Liberal Arts and Sciences.

Transfer Credit

Course work completed at other colleges and universities may apply to partial fulfillment of graduation requirements and may be used as prerequisites for courses at UIC. The University of Illinois at Chicago is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows for the transfer of the IAI-approved General Education Core Curriculum between participating institutions. Please consult *Illinois Articulation Initiative* in the *Admissions* section of the catalog. The final decision, however, regarding the acceptance of credit and courses that apply toward degree requirements is made by the College of Liberal Arts and Sciences.

Students who transfer course work may anticipate some loss of credit. This might require more time to complete the degree than had been originally planned. When the loss of credit occurs, it does not imply a negative evaluation of a student's transfer work but rather a lack of appropriateness for the programs of the college. After admission to the University, students must consult an advisor in the LAS Academic Advising Center.

Transfer Credit for Continuing Students

Continuing students who want to take course work for credit at another institution, either concurrent with UIC enrollment or during the summer term, must obtain prior written approval from the college and, where appropriate, the relevant department. Students will have to provide justification for the request.

If prior approval is not obtained from the college, credit will not be allowed, and the Office of Admissions and Records will be advised to exclude the transfer work from the student's academic record. Students are obligated to report all work from other institutions once enrolled at UIC.

When transferring credit from a community college after attaining junior status, a student must earn at least 60 of the required semester hours either at the University of Illinois at Chicago or any other accredited four-year college or university. The enrollment residence requirements must also be met. Thus, students ordinarily should not register at a community college after completing the sophomore year.

Secondary Education Program Requirements

Students who are preparing to teach on the secondary level enroll in programs supervised by the departments offering the various majors. These programs, which have state approval and differ in some respects from those of the arts and sciences programs, prepare the student for State of Illinois certification.

Completion of a secondary education curriculum leads to either the Bachelor of Arts or the Bachelor of Science in the teaching of the field of specialization. The choice of a major determines the particular degree that will be awarded. Those who complete a secondary education curriculum may not pursue a second major in the same department; only secondary education majors may elect a teacher education minor. A student must choose a major field from the following academic disciplines: Chemistry, English, French, Germanic Studies, History, Mathematics, Physics, or Spanish. Detailed information is available online <http://www.uic.edu/ucat/catalog/ED.shtml>.

Secondary Certification for Students with Bachelor's Degrees

Postbaccalaureate students interested in completing the approved program leading to certification at the secondary level should consult the College of Education.

College Policies

All students in the College of Liberal Arts and Sciences, whether enrolled as full-time, part-time, or nondegree, are subject to all rules of the college.

Academic Load

In the College of Liberal Arts and Sciences, students may enroll in either a part-time or full-time program of study, in either day or evening classes. During the fall and spring semesters, a minimum full-time program is 12 semester hours. A program of 19 semester hours or more must be approved by a college dean or academic advisor. For Summer Session 1 (four-week) and Summer Session 2 (eight-week), UIC considers a total aggregate of 6 semester hours (5 hours for graduate students) as the minimum number necessary to constitute full-time enrollment. A program of 13 semester hours or more during the summer session must be approved by a college dean or academic advisor.

Academic Probation and Dismissal Rules

Probation Rules

A student will be placed on academic probation in any term in which either a cumulative or semester grade point average of less than 2.00/4.00 is earned. The probation rules apply to all College of Liberal Arts and Sciences students. Academic probation at UIC cannot be removed by course work from other colleges or universities, including programs of the Springfield and Urbana-Champaign campuses.

A student on probation is expected to earn at least a 2.00 in the next term if the UIC cumulative grade point average is a 2.00 or higher. If the UIC cumulative grade point average is lower than a 2.00 at the time of being placed on probation, the student must earn greater than a 2.00 in the next term and have a UIC cumulative grade point average of 2.00 by the end of the second term on probation.

Dismissal Rules

Students failing to earn a cumulative grade point average of 2.00 by the end of two terms on probation will be dismissed from the University. In any term, a student may be dismissed for one or more of the following reasons:

1. First-term students will be dismissed after their first term of enrollment if they earn zero credit, a grade point average of less than 1.00/4.00, or obtain a deficit of -15 points or more. Deficit points are calculated as follows; multiply the number of credit hours for each course taken by the points for the grade received, A=+2, B=+1, C=0, D=-1, F=-2. Add the points for each course taken during the semester. The total equals the deficit points used to determine probation status. Each deficit point equals one hour of B.

2. Continuing students will be dismissed at the end of any term in which their cumulative deficit points (see above) are -15 or more.
3. Failure to earn any credit.
4. Failure to earn at least a 1.00/4.00 (D) average for a term.
5. Failure to earn at least a 2.00/4.00 (C) average while on probation.
6. Failure to meet conditions of probation.
7. Failure to meet conditions specified at the time of admission.
8. Failure to make progress toward completion of an LAS degree.
9. Failure to declare and make progress in a major after having earned 60 credit hours.
10. Two or more consecutive terms of University withdrawals.

The dean may waive the dismissal rules in extraordinary circumstances.

Appeal of a Dismissal Decision

Students who have been dismissed by the college may apply for readmission after two terms (excluding the summer session). Students who can document that poor academic performance was the result of significant extenuating circumstances, such as a long-term or debilitating illness or personal crisis, may petition for immediate reinstatement. The student must schedule an interview with an advisor or dean prior to the first day of instruction of the new term and provide supporting documentation.

Change of Course Schedule

Adding Courses

Students may add courses for which they have met the prerequisite(s) if seats are still available during the first two weeks of the fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. Students should seek approval of the instructor to enroll in a class after the fifth day of the semester since some courses prohibit enrollment in the second week in accordance with college policy.

Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, or through the first Wednesday of Summer Session 1 and the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters, students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring, a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program. These drop requests are approved, regardless of the circumstances, provided that the student meets with an LAS academic advisor or dean within the designated period and that the student has not exceeded the limit of four late drops. The merits of the student's request are not a factor in determining eligibility the late drop.

Because only four exceptions to the designated deadlines are available to students over the entire period in which they are enrolled at UIC, students are advised to evaluate their academic standing in the course with the instructor before requesting to exercise one of these four late drops.

Requests to drop a course after the tenth week of the fall and spring semesters, or requests to drop a course within the approved exception period in excess of the four

automatic drops are not routinely granted unless there are exceptional circumstances outside of the student's control that can be documented. Requests require a written petition and are reviewed by the committee on petitions. Poor performance in a course is not a sufficient reason to justify approval of a request.

Course drop deadlines that apply to summer sessions are announced by the Office of Admissions and Records on its Web site http://www.uic.edu/depts/oar/registration/policies_procedures.html.

Change of Major

Students seeking to change or add a major should declare the new major with the department offering that major. Some majors require that specific requirements be fulfilled to declare and/or be retained as a major.

Class Attendance

Each instructor may establish his/her own attendance policy, including penalties for nonattendance. Failure to attend classes does not result in automatic withdrawal from a course. The college expects that students will attend all classes.

Closed Courses

Overenrollment into a closed course is prohibited.

Course Prerequisites

A student must satisfy the prerequisites before enrolling in a course. A student enrolling in a course without having met the prerequisites may be withdrawn from the course. Course prerequisites are listed in both the *Course Descriptions* in this catalog and the *Schedule of Classes*. Only the instructor may waive a prerequisite, if given evidence that the student is adequately prepared to pursue the subject. **Warning:** Registration in a course without meeting prerequisites does not imply approval of the registration.

Credit/No Credit Option

The credit/no credit option allows the student to complete a course with a grade of credit (CR) or no credit (NC) instead of a letter grade. Courses completed with a grade of CR carry credit and apply toward degree requirements. In general, grades of CR and NC are final and cannot be changed to letter grades. College policy coincides with campus policy with the following conditions:

1. Only students in good standing may elect to take a course under the credit/no credit option. Students on probation and those whose status is undetermined at the time at which they elect the option are not eligible.
2. A student may request only one course per term as credit/no credit.
3. No more than two courses in a single discipline may be taken as credit/no credit.
4. Only elective courses may be taken on a credit/no credit basis; courses being used to meet any graduation course requirements must be taken for letter grades.
5. The following describes the restrictions that apply to all students, regardless of major or curriculum:
 - Students may not take English 160 or 161 as credit/no credit.
 - Students may not take any course used to satisfy the foreign language requirement as credit/no credit.
 - Students may not take any course used to satisfy the General Education Core requirements as credit/no credit. Until students have completed the minimum requirement in each

General Education Core category, courses from these areas may not be taken as credit/no credit.

- Students may not take any course used to satisfy the Quantitative Reasoning requirement as credit/no credit.
 - Students may not take any course being used to satisfy the requirements of the major, minor, or the required prerequisite and collateral courses of the major as credit/no credit.
 - Students in the health sciences curricula are advised not to complete required science courses under the credit/no credit option.
6. A student may earn no more than 21 semester hours of credit at UIC under the credit/no credit option.

Students must apply to take a course credit/no credit at the college office, third floor University Hall, no later than the tenth day of the term (first Wednesday of Summer Session 1 or first Friday of Summer Session 2). After that date, students may not request courses on a credit/no credit basis nor may they change a credit/no credit request previously submitted. It is the responsibility of the student to determine eligibility under the regulations. Students requesting a course under the credit/no credit option will be informed if they are ineligible and will receive a grade for the course. Students with questions concerning their eligibility should make an appointment with a college advisor.

Declaring a Major

While a student may begin taking courses in the major at any time, a student must declare a major no later than the completion of 60 semester hours. Transfer students entering with 60 semester hours or more must declare a major by the end of their first term at UIC. Some majors, however, require department approval for admission into the program. Currently, this special approval is only required for the secondary education program in Mathematics and for all programs in the Departments of Communication and Criminology, Law, and Justice. To declare a major, the student should visit the office of the department offering the major and complete a major declaration form. Failure to have a declared major by 60 semester hours will result in a registration hold being placed for the following semester, unless an exception has been approved by an LAS advisor.

The College of Liberal Arts and Sciences reserves the right to restrict enrollment of students into its academic programs based on space availability. Enrollment restrictions may be placed during the University admission process or on undeclared continuing students.

Double Major, Double Degrees, and Second Bachelor's Degree

Double Major

A student may declare a second major with the approval of the college office. An additional major will not be approved if the first major and the proposed second major involve similar study or substantial duplication of course work. With few exceptions, an additional major will not be approved if the first major and proposed second major are in the same department. Students in a specialized curriculum cannot have a second major. A student declaring a degree program defined as a specialized curriculum may not have a second specialized curriculum program. Minors that have substantial overlap with the specialized curriculum content are not allowed.

Double Degrees

A student may receive two degrees concurrently from the College of Liberal Arts and Sciences. The student must complete 30 semester hours of credit at UIC beyond the

requirements for the first degree in courses not offered for the first degree. In addition, the student must complete all degree requirements of the college and the major department. For specific information on these requirements, consult the department listings in the catalog.

Double degrees will not be approved if the first degree and the proposed second degree involve study of a similar area or substantial duplication of course work. The student must consult an academic advisor in the college office to initiate a request for double degrees. The college does not approve requests for more than two bachelor's degrees.

Second Bachelor's Degree

A student with an earned bachelor's degree from UIC or another institution may receive a second bachelor's degree from the College of Liberal Arts and Sciences subsequent to the first undergraduate degree. The student must complete 30 semester hours of credit at UIC beyond the requirements for the first degree in courses not offered for the first degree. In addition, the student must complete all degree requirements of the college and the major department. For specific information on these requirements, consult the department listings in the catalog.

A second bachelor's degree will not be approved if the first degree and the proposed second degree involve study of a similar area or substantial duplication of course work. The student must consult an academic advisor in the college office to initiate a request for a second degree. The college does not approve requests for more than two bachelor's degrees.

Rules Governing the Major

The major consists of discipline-specific courses, excluding required prerequisite and collateral courses outside of the major department. Specialized curricula include all courses required for the undergraduate degree. Degree program listings in the department sections address these differences.

A liberal arts and sciences degree program may not include less than 27 or more than 40 semester hours of course work in the major field and 36 semester hours of prerequisites and collateral course work. For those departments and programs that require prerequisites and collateral courses, the total field of specialization may not exceed 72 semester hours. Writing-in-the-Discipline courses may be excluded from this limitation. The major, exclusive of collateral courses, must include 14 semester hours of upper-division (200-, 300-, or 400-level) courses. Specialized curricula must meet the minimum requirements for graduation in the college. The maximum number of hours allowed in a specialized curriculum will be considered on a case-by-case basis.

Double Major

Cross-listed courses may count toward specific requirements in each major; however, in such cases a cross-listed course counts toward the Total Hours required in only one of the majors. A student need not repeat course work or duplicate requirements to complete the second major.

Students Enrolled in Other Colleges

Students in other UIC colleges may not officially complete an LAS major or curriculum. These students may, however, be eligible to receive at the time of graduation a letter of certification verifying completion of the program of study provided that all course requirements are satisfied and that the student has met the minimum grade point average requirements. A letter of certification will not be authorized if the student's program in the primary college and the proposed LAS program involve similar study or include substantial duplication of course work. Students in other UIC colleges can complete an LAS minor when approved by the student's college.

Graduate-Level Courses for Undergraduate Credit

With department approval, an undergraduate student may enroll in a course in the Graduate College (500-level) for undergraduate elective credit. Prior to enrollment, students must obtain approval and must have met course prerequisites.

Students should understand that graduate-level courses taken by an undergraduate student are generally not applicable toward a graduate degree.

Cross-Listed Courses

Courses cross-listed in two or more departments have equivalent standing in each department and are treated as the same course regardless of the department under which the registration occurs.

Independent Study

A number of departments offer independent study, research, or field experience courses, and internships in which a student's special interests may be pursued under the direction of a faculty member. To enroll in such a course in any UIC college, the LAS student must have a minimum 2.50/4.00 grade point average in all course work taken at UIC and must obtain consent of the instructor and the department offering the course prior to registration. No student may enroll in an independent study course after the tenth day of the term without approval of the department and the dean's office.

A maximum of 8 semester hours in independent study in a given department or program may count toward the degree. No more than 16 semester hours of independent study credit may apply toward the degree. Because many of these courses may not be repeated, students should consult the catalog for specific credit limitations. Please note fieldwork and internship courses that are specifically required in the major as stated in this catalog are excluded from this limitation.

Petition Procedure

Any rule, regulation, or action of the college may be appealed in writing. Petitions are submitted to the Office of the Dean, LAS Student Academic Affairs, third floor University Hall. It is the student's responsibility to provide documentation in support of a petition. Submission of a petition does not imply approval.

Proficiency Examinations

LAS departments may offer proficiency examinations, which are similar in content to regularly scheduled final course exams. To take such an exam, however, a student must meet the eligibility requirements of both the college and department. Consideration for such approval includes a careful review of the student's secondary and postsecondary records. If approval is granted, the minimum passing grade that a student must earn is a C, although a department may require a higher passing grade. When credit is awarded, a grade of P (Pass) is assigned. The Pass grade is not included in a student's grade point average, but the credit may apply toward the total hours required for graduation. Note that proficiency credit does not apply toward nor interrupt the 30-hour enrollment residence requirement for graduation.

Although other limitations apply, proficiency exams may not be taken by a student who has credit for more than one course in the subject above the level of the course in which the exam is required. For more detailed information on eligibility criteria, consult *Proficiency Examinations for Enrolled Students* in the *Academic Standing* section.

Retroactive Credits in Foreign Language

A student who has placed into the 104 or higher level of a foreign language taught at UIC as the result of the UIC administered placement tests may receive academic proficiency credits for prerequisite courses.

- Placement into the 104 level provides four credit hours of proficiency credit for the 103-level course that was not required of the student if the student completes the 104 course with a grade of B or higher.
- Placement at the 200-level, i.e., student has satisfied the college foreign language requirement through placement testing, provides four hours of proficiency credit for the 103-level course and four hours of proficiency credit for the 104-level course if the student completes the 200-level course with a grade of B or higher. These credits also apply for placement into the last semester of a heritage basic language course sequence.
- These credits are awarded only for courses taught at UIC and only on the basis of new student placement tests results for those with no prior college-level foreign language credits. The credits may be applied only to the first language course taken.
- Proficiency credits appear as “P” on the transcript and are not calculated into the grade point average. Proficiency credit does not apply to placements based on AP, SAT, or IB scores for which credits are applied in a prescribed manner or to international students for their native language. CLEP credits are not accepted for foreign language courses.
- Students to whom this section applies must initiate the request for the credits after the completion of the required course by obtaining the appropriate request form from an academic advisor in the LAS Academic Advising Center, third floor University Hall.

Registration Approval

All new students are required to attend an orientation program prior to registration. Certain students or groups of students may be required to see an advisor prior to registration. Freshmen are required to meet with a college academic advisor during their first two semesters in order to register for the following semester, unless specifically exempted. The LAS Academic Advising Center is located on the third floor of University Hall.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may disadvantage a student and narrow a student's options. Some colleges require students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. In LAS, courses with a C grade may not be repeated. Courses with D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once requires written permission from the student's college dean. Students who have

been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course **is not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Transferring

Intercollege Transfer Students

Students currently enrolled at UIC who want to transfer into the College of Liberal Arts and Sciences should complete an Intercollege Transfer Application available at LAS Reception, third floor University Hall. Students are welcome to discuss possible admission to LAS with an academic advisor. Requests must be initiated by the Friday of the eleventh week of the fall and spring semesters and the fourth week of the summer session. Admission to LAS is generally limited to those students in good academic standing who have a UIC grade point average of at least 2.00/4.00 and whose combined UIC and transfer grade point average is at least 2.00. Those students who are accepted into LAS are expected to enroll immediately in courses that fulfill LAS degree requirements.

Transfer Students from Other Colleges and Universities

Students applying to the college as transfers—those who have earned at least 36 semester hours or 54 quarter hours of credit—must submit complete transcripts from all post-secondary institutions. Provided space is available, a minimum 2.50/4.00 grade point average is required for consideration. Please consult the *Admissions* section of the catalog for more information.

Transferring out of the College

An LAS student who wants to transfer into another UIC college must follow the procedures of that college. Most UIC health sciences programs admit students only in the fall semester. For information on application procedures and deadlines, consult the admissions office serving the UIC health sciences colleges or the LAS Academic Advising Center, third floor, University Hall. Students interested in colleges other than the health sciences should contact those colleges directly.

Preprofessional Studies

Preprofessional studies are designed for students who intend to pursue their undergraduate or graduate educa-

tion in professional schools of the University of Illinois. Preprofessional areas are not major areas of study for the proposed degrees and are designated as educational goals in student records. Preprofessional study is offered in the following areas:

- Pre-Dentistry
- Pre-Elementary Education
- Pre-Engineering
- Pre-Health Information Management
- Pre-Law
- Pre-Medicine
- Pre-Nursing
- Pre-Nutrition
- Pre-Occupational Therapy
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Urban and Public Affairs
- Pre-Veterinary Medicine

Advisors for students in these areas are available in the LAS Academic Advising Center to answer students' questions about admissions requirements and procedures and to assist students in planning their programs of study. Many of the professional schools encourage prospective students to visit their college offices in order to obtain more detailed information on the programs. Preprofessional students should consult an LAS advisor regarding any changes in professional school admissions requirements.

Admission to LAS preprofessional studies does not guarantee admission to a professional school, nor does completion of the required course work or attainment of the minimum grade point average. Preprofessional students should follow an LAS degree program whether or not a bachelor's degree is required for admission to the professional program. Once 60 semester hours are earned, an LAS major must be declared.

Because application procedures as well as deadlines vary among the professional schools of the University of Illinois, students are encouraged to consult both an LAS preprofessional advisor and the individual program to which application is planned. Students who are members of underrepresented groups in the health professions and plan to enter one of the health science fields should also consult the *Urban Health Program* information in the *Academic Planning and Progress* section of the catalog.

Studies in the Health Sciences

- Pre-Dentistry
- Pre-Medicine
- Pre-Occupational Therapy
- Pre-Physical Therapy
- Pre-Veterinary Medicine

LAS students in these areas of the health sciences complete all requirements for the bachelor's degree, including a major, in addition to their preprofessional studies at UIC. Preparatory course work for these fields is listed in the *Preprofessional Studies* section of the catalog. If admitted, students complete the professional degree in the professional college.

- Pre-Health Information Management
- Pre-Nursing
- Pre-Nutrition
- Pre-Pharmacy

Students in these areas of the health sciences complete all of the basic preparatory course work in LAS prior to admission to the professional college. Preparatory course work for these fields is listed in the *Preprofessional Studies* section of the catalog. If admitted, students complete the bachelor's or professional degree in the professional college. Students in these areas are advised to follow LAS degree program requirements along with preprofessional study.

Studies in Pre-Elementary Education, Pre-Engineering, and Pre-Urban and Public Affairs

Students in these areas complete a minimum of two years of preparatory course work in LAS prior to admission to the professional school. Preparatory course work for these fields is listed in the *Preprofessional Studies* section of the catalog. If admitted, students complete the bachelor's degree in the professional college.

Studies in Pre-Law

LAS students in pre-law complete all requirements for the bachelor's degree, including a major, at UIC. More information on pre-law is provided in the *Preprofessional Studies* section of the catalog.

LAS provides active support for students interested in pursuing careers in law. To take advantage, students interested in pre-law should see the pre-law advisor in the college as soon as possible and consider joining the student Pre-Law Society. Both provide important information about pre-law academic preparation, careers in law, the LSAT admissions test, strategies for applying to law school, etc.

UIC has a Guaranteed Professional Program Admissions arrangement with John Marshall School of Law for entering freshmen. More information on this program is available in the *Admissions* section of the catalog.

Accelerated Degree Program

The University of Illinois at Chicago and the Chicago-Kent College of Law offer a six-year program that leads to the bachelor's degree from UIC and the Juris Doctor degree from Chicago-Kent. The Accelerated Degree Program is designed for students with a commitment to academic excellence who pursue a rigorous academic program including the completion of an LAS major and additional undergraduate work chosen in consultation with the pre-law advisor in the College of Liberal Arts and Sciences. Students apply before the beginning of the junior year. Admission to the program is highly competitive. Among other requirements, applicants must have a cumulative grade point average of 3.25/4.00 and have completed 60 semester hours. Students interested in this program must consult with the LAS pre-law advisor during the sophomore year. Students should see the *Preprofessional Studies* section of the catalog for more information.

Minors

Although a minor is not required, a student may elect to complete one or more minors. The number of semester hours required for the LAS minor is 12 to 21. LAS students may complete a minor in another college, with the approval of that college. A teacher education minor, however, may be completed only by a secondary education major. Also, with few exceptions, a minor will not be approved if the student's major and proposed minor are in the same department. The following are minors offered by LAS.

| Minor | Department | Hours |
|-----------------------------------|---|-------|
| African American Studies | African American Studies | 18 |
| Ancient Greek ^a | Classics and Mediterranean Studies | 18 |
| Anthropology | Anthropology | 20 |
| Asian Studies | Interdepartmental | 15 |
| Biological Sciences | Biological Sciences | 21 |
| Chemistry | Chemistry | 18–19 |
| Classical Civilization | Classics and Mediterranean Studies | 18 |
| Communication | Communication | 18 |
| Criminology, Law, and Justice | Criminology, Law, and Justice | 18 |
| Earth and Environmental Sciences | Earth and Environmental Sciences | 18 |
| Economics | Economics | 18 |
| English | English | 18 |
| French | Spanish, French, Italian, and Portuguese | 18 |
| Gender and Women's Studies | Gender and Women's Studies | 18 |
| Geography | Anthropology | 18–21 |
| Germanic Studies | Germanic Studies | 12 |
| History | History | 15 |
| Human Capital and Labor Markets | Economics | 18 |
| International Studies | Interdepartmental | 21 |
| Italian | Spanish, French, Italian, and Portuguese | 21 |
| Jewish Studies | Interdepartmental | 18 |
| Latin ^a | Classics and Mediterranean Studies | 18 |
| Latin American and Latino Studies | Latin American and Latino Studies | 18 |
| Law and Society | Criminology, Law, and Justice | 18 |
| Lithuanian Studies | Slavic and Baltic Languages and Literatures | 15 |
| Mathematics | Mathematics, Statistics, and Computer Science | 21 |
| Mathematics and Computer Science | Mathematics, Statistics, and Computer Science | 21 |
| Moving Image Arts | Interdepartmental | 18–20 |
| Native American Studies | Interdepartmental | 18 |
| Philosophy | Philosophy | 15 |
| Physics | Physics | 19–21 |
| Polish | Slavic and Baltic Languages and Literatures | 15 |
| Political Science | Political Science | 21 |
| Psychology | Psychology | 18 |
| Religious Studies | Interdepartmental | 18 |
| Russian | Slavic and Baltic Languages and Literatures | 15 |
| Sociology | Sociology | 15 |
| Spanish | Spanish, French, Italian, and Portuguese | 18 |
| Teaching of English | English | 18 |
| Teaching of French | Spanish, French, Italian, and Portuguese | 20 |
| Teaching of German | Germanic Studies | 12 |
| Teaching of Physics | Physics | 19–21 |
| Teaching of Spanish | Spanish, French, Italian, and Portuguese | 21 |
| Urban Real Estate ^b | Economics | 18 |

^a Suspended effective Fall 2010.

^b Suspended effective Fall 2009.

Course Level Requirement for the Minor

At least 9 semester hours in the minor field must be at the advanced level (200-, 300-, or 400-level courses), except in a foreign language, where a minimum of 6 semester hours is required. Of the 9 semester hours at the advanced level, 6 must be in enrollment residence at the University of Illinois at Chicago. A minimum grade point average of 2.00/4.00 is required for the minor field.

Enrollment Residence Requirement in the Minor

A student must complete at least one-half of the course work required for the minor field in enrollment residence at UIC.

Academic Advising

The College of Liberal Arts and Sciences encourages the intellectual growth and development of the student as an individual. Newly admitted students are required to participate in a group advising session prior to their initial registration. To arrange an advising appointment, students may call (312) 996-3366, or come to the LAS Academic Advising Center, third floor, University Hall.

Advising Policy

Students should consult a college advisor at least once during the first term in residence and at least once an academic year thereafter. Students with a declared major should consult regularly with their departmental advisor as well. Some students may be required to consult an advisor in order to register for a subsequent term. Unless specifically exempted, all LAS freshman are required to meet with a college advisor during their first two semesters in order to register for the following semester.

LAS advisors assist students not only in individual program planning and course selection, but also are able to discuss with the student the feasibility of various career paths based on interest and academic performance. Additionally, advisors can explain college rules and requirements as they pertain to various programs and can help resolve special registration problems. In conjunction with this, advisors refer students to additional sources of help on campus.

Students who want help in choosing a major or who want to examine various career, vocational, and professional options should arrange to see one of the specialized counselors who provide such guidance. These counselors are available in the Counseling Center and Career Services located in the Student Services Building.

Students are encouraged to take advantage of the full services of the college advising office prior to the time of registration and at other times when assistance might prove fruitful. The college requires that students with junior standing meet with a college academic advisor for a review of progress toward the degree. Students who have chosen a major must also consult with a departmental advisor prior to registration.

The responsibility for selecting courses and meeting graduation requirements rests with the students, who must plan intelligently to make their programs consistent with their goals and with college requirements. All LAS students should obtain a Degree Audit Report System (DARS) analysis from an academic advisor in the college at least annually. This analysis of earned credits can assist students in planning their program of study. DARS reports obtained online should be confirmed by a college advisor.

Academic Honors

College Honors

The student who has demonstrated outstanding academic excellence throughout the entire undergraduate program may be eligible for graduation with College Honors. College Honors will be awarded at the time of graduation to those students with a cumulative grade point average of at least 3.50/4.00. A student must meet one of the following conditions to graduate with College Honors:

1. All course work has been entirely in residence at UIC and the UIC cumulative GPA is at least 3.50/4.00.
2. The UIC cumulative GPA (based on at least 30 graded hours) and the combined UIC plus transfer cumulative average is at least 3.50/4.00.

Dean's List

Exceptional academic achievement in the College of Liberal Arts and Sciences is recognized each term by inclusion on the Dean's List. Eligibility is based on a 3.50/4.00 term GPA with a minimum program of 12 semester hours, exclusive of basic military science and basic activity courses in physical education. At least 9 semester hours must be earned for letter grades, in addition to a grade of Credit earned in any course taken on a credit/no credit basis.

Special Programs and Opportunities

Certification of Major for Nondegree Students with Bachelor's Degree

A student who has a bachelor's degree from an accredited institution of higher learning may receive, with approval of the college office, a letter of certification upon completion of department requirements for a major. A letter of certification will not be issued if the student's first degree and proposed LAS major involve study of a similar area or substantial duplication of course work. The student must consult an academic advisor in the college office to initiate a request for a letter of certification at least one term prior to the intended completion date.

Cooperative Education and Internship Program

The Cooperative Education and Internship Program (Co-op) provides liberal arts and sciences students with the opportunity to combine their classroom study with periods of paid or unpaid career-related work experiences. The work experiences can be full time (alternate semesters) or part time (working and going to school in parallel for a designated period of time). Students interested in participating in the program may apply as early as the second semester of their sophomore year and should have declared a major and have earned a minimum grade point average of 2.50/4.00. Students in the program will be registered each semester in LAS 289—Cooperative Education Program. Credit is not granted for this program. For more information, contact the Co-op office at (312) 996-0425, 518 University Hall. Consult major department for information regarding internship opportunities that award credit.

Individual Plan of Study

The Individual Plan of Study (IPS) serves those students whose wide-ranging and multidisciplinary interests are not met through study in a traditional major. Applications for IPS are approved by and completion is certified by the IPS Committee, which is comprised of three faculty members representing the humanities, natural sciences, and social sciences. Students applying for IPS must meet the following criteria:

1. They must have a minimum grade point average of 2.50/4.00.
2. They must have completed less than 90 hours at the end of the term in which they apply, or they must propose a program that includes at least 30 hours of courses to be taken.
3. They must present a proposal that:
 - explains the goals of the proposed program;
 - lists all courses for the proposed program (indicating which courses have already been completed) and explains how the selection fulfills the goals;
 - explains why the program cannot be pursued under an existing major;
 - identifies a faculty member who has been consulted in drawing up the program and has agreed to serve as the advisor; and
 - includes a transcript showing all previous course work and a schedule showing courses currently being taken.

The following criteria must also be met:

1. The major proposed must meet all University and LAS requirements.
2. The major proposed must require at least 33 hours of course work, 30 of which must be above the 100-level.
3. Since the major represents advanced work, no more than 6 hours of the major can be fulfilled by courses taken outside of UIC.
4. Students will not be allowed to major in both an existing major and the IPS.

The procedures for proposing an IPS are as follows:

1. Proposals will be accepted by the Office of the Dean between the beginning of classes and the end of the fifth week of each term and will be evaluated by the IPS Committee between the fifth and tenth weeks of each term. If necessary, the IPS Committee may seek additional information from the student either orally or in writing. The IPS Committee will inform students in writing of the acceptance or rejection of their proposals.
2. Students must meet with their advisor at least once each term and by the tenth day of each term must file an approval form signed by their advisor attesting that the proposal is being followed.
3. Students must make an appointment once a year for a credit check with an LAS advisor.

Study Abroad Programs

The College of Liberal Arts and Sciences offers study abroad programs for students studying or fluent in French, German, or Spanish. These programs do not interrupt enrollment residence and with department and college approval, students may apply credit earned in the program toward the degree. More detailed information on these programs is available from the individual department. Extensive study abroad opportunities are offered by the UIC Study Abroad Office. For more information, please visit the Study Abroad Web site http://www.uic.edu/depts/spec_prog/studyabroad/.

Students may also pursue studies independently at accredited foreign universities with approval of the college. For details contact an LAS academic advisor, third floor, University Hall.

DEPARTMENT OF AFRICAN AMERICAN STUDIES

1223 University Hall (UH)

(312) 996-2950

carlap@uic.edu

<http://www.uic.edu/las/afam/aasthome.html>

Administration: Head, Paul Tiyanbe Zeleza

Associate Head and Director of Undergraduate Studies,
Cynthia Blair

African American Studies, a comprehensive study of the African American people's experience, combines the approaches of the humanities and the social sciences. Students may take African American Studies to enhance their knowledge and/or pursue it as a major to provide a well-rounded approach to understanding problems through the African American example. The major also imparts skills in critical thinking, research methods, theory building, analysis, and written and oral expression.

Training in African American Studies is useful for graduate work in literature, American studies, law, history, sociology, social work, government, business, journalism, and employment in the public sphere.

BA with a Major in African American Studies

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of African American Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BA with a Major in

| African American Studies Degree Requirements | Hours |
|--|------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in African American Studies | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| AAS 100—Introduction to African American Studies ^{ab} | 3 |
| One 100- or 200-level humanities course: ^c | 3 |
| AAS 105—African Americans in Film 1900–Present: Images, Individuals, and Ideas on Screen (3) | |
| AAS 110—Introduction to African American Literature, 1760–1910 (3) | |
| AAS 111—Introduction to African American Literature since 1910 (3) | |
| AAS 191—African and Caribbean Francophone Literature in Translation (3) | |
| AAS 212—Techniques of African American Creative Writing (3) | |
| AAS 250—Comparative Black Literatures (3) | |
| AAS 261—Reading Black Women Writing (3) | |
| AAS 262—Black Cultural Studies (3) | |
| AAS 263—African American Intellectual History (3) | |
| AAS 265—The Harlem Renaissance (3) | |

One 100- or 200-level social science course:^d

| | |
|--|---|
| AAS 103—African American Politics and Culture (3) | |
| AAS 104—Race, Place, and Schooling: African Americans and Education (3) | |
| AAS 120—African American Religious Traditions (3) | |
| AAS 141—African Civilization (3) | |
| AAS 200—History of Race Relations in America (3) | |
| AAS 201—The Psychology of African Americans (3) | |
| AAS 202—African American Behavioral Patterns (3) | |
| AAS 203—The African American Family in the United States (3) | |
| AAS 225—Racial and Ethnic Groups (3) | |
| AAS 241—Precolonial Africa (3) | |
| AAS 242—Modern Africa (3) | |
| AAS 245—Politics and Government of Africa (3) | |
| AAS 249—Black Freedom Movements in the U.S. (3) | |
| AAS 251—African American and the Law to 1854 | |
| AAS 252—African Americans and the Law since 1954 (3) | |
| AAS 258—Race and Urban Life (3) | |
| AAS 271—African Americans and the Politics of Incarceration (3) | |
| AAS 272—Race, Gender, and Sexuality (3) | |
| AAS 206—Interdisciplinary Research Methods in African American Studies | 3 |
| AAS 247—African American History to 1877 | 3 |
| AAS 248—African American History since 1877 | 3 |
| AAS 340—Advanced Interdisciplinary Seminar in African American Studies ^d | 3 |
| AAS 390—Senior Seminar in African American Studies | 3 |

An additional 9 hours of credit in African American studies courses selected in consultation with a departmental advisor and distributed in the following way:

| | |
|--|-----------|
| 200- or 300-level: at least 6 hours ^e | |
| 400-level: at least 3 hours | 9 |
| Total Hours—Major Requirements: | 33 |

^a This course is approved for the Understanding the Individual and Society General Education category.

^b This course is approved for the Understanding U.S. Society General Education category.

^c Students should consult General Education section of the catalog to determine which of the following courses are approved General Education courses.

^d AAS 340 fulfills the Writing-in-the-Discipline requirement.

^e Students wishing to substitute 400-level courses for those at the 200- or 300-level may do so with the permission of the department.

Recommended Plan of Study

To view a recommended plan of study for the major in African American Studies, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in African American Studies

Students from other disciplines who want to minor in African American Studies must complete 18 semester hours as outlined below.

| Required Courses—African American Studies Minor | Hours |
|---|-------|
| AAS 100—Introduction to African American Studies | 3 |
| One 100- or 200-level humanities course: | 3 |
| AAS 105—African Americans in Film 1900–Present: Images, Individuals, and Ideas on Screen (3) | |
| AAS 110—Introduction to African American Literature, 1760–1910 (3) | |
| AAS 111—Introduction to African American Literature since 1910 (3) | |
| AAS 191—African and Caribbean Francophone Literature in Translation (3) | |
| AAS 212—Techniques of African American Creative Writing (3) | |
| AAS 250—Comparative Black Literatures (3) | |
| AAS 261—Reading Black Women Writing (3) | |

| | |
|---|-----------|
| AAST 262—Black Cultural Studies (3) | |
| AAST 263—African American Intellectual History (3) | |
| AAST 265—The Harlem Renaissance (3) | |
| One 100- or 200-level social science course: | 3 |
| AAST 103—African American Politics and Culture (3) | |
| AAST 104—Race, Place, and Schooling: African Americans and Education (3) | |
| AAST 120—African American Religious Traditions (3) | |
| AAST 141—African Civilization (3) | |
| AAST 200—History of Race Relations in America (3) | |
| AAST 201—The Psychology of African Americans (3) | |
| AAST 202—African American Behavioral Patterns (3) | |
| AAST 203—The African American Family in the United States (3) | |
| AAST 225—Racial and Ethnic Groups (3) | |
| AAST 241—Precolonial Africa (3) | |
| AAST 242—Modern Africa (3) | |
| AAST 245—Politics and Government of Africa (3) | |
| AAST 249—Black Freedom Movements in the U.S. (3) | |
| AAST 251—African Americans and the Law to 1954 (3) | |
| AAST 252—African Americans and the Law since 1954 (3) | |
| AAST 258—Race and Urban Life (3) | |
| AAST 271—African Americans and the Politics of Incarceration (3) | |
| AAST 272—Race, Gender, and Sexuality (3) | |
| One of the following courses: | 3 |
| AAST 247—African American History to 1877 (3) | |
| AAST 248—African American History since 1877 (3) | |
| Two additional African American Studies courses, one at the 300-level and one at the 400-level, chosen in consultation with a departmental advisor. | 6 |
| Total Hours—African American Studies Minor | 18 |

Distinction

To be considered for Departmental Distinction, students must have a cumulative GPA of 3.25/4.00, a GPA of 3.50/4.00 in all African American studies courses, and meet all course requirements for a major in African American Studies.

To be eligible for High or Highest Distinction, the student must have a grade point average of 3.75/4.00 in all African American studies courses. In addition, eligible students must submit a final project for departmental review that demonstrates excellent work and must make a seminar presentation on this project to a session of African American Studies majors and faculty. The determination of high or highest distinction will be made by the faculty on the basis of the grade point average, the project, and the presentation.

DEPARTMENT OF ANTHROPOLOGY

2102 Behavioral Sciences Building (BSB)
(312) 413-3570

<http://www.uic.edu/depts/anth/anthro.htm>

Administration: Head, John D. Monaghan

Director of Undergraduate Studies, Anthropology:

Joel W. Palka, jpalka@uic.edu

Director of Undergraduate Studies, Geography:

John D. Monaghan, monaghan@uic.edu

Academic Advisors: Sloan R. Williams, sloanw@uic.edu;

Joel W. Palka, jpalka@uic.edu

Anthropology is the study of human cultural and biological diversity over time and space. The expertise of the faculty affords students the opportunity to pursue interests in most of the major time periods and geographic areas of the world.

An undergraduate education in anthropology provides valuable preparation for many careers that involve working with individuals of diverse national or ethnic backgrounds. Undergraduate majors have found careers in healthcare services, social case work, cultural resource management,

museum education, public housing, employment and personnel counseling, public office, the Peace Corps, field archaeology, import businesses, market research, the Foreign Service, and social and environmental planning.

BA with a Major in Anthropology

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Anthropology degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BA with a Major in Anthropology

| Degree Requirements | Hours |
|--|------------|
| Major Requirements | 35–36 |
| General Education and Electives to reach Minimum Total Hours | 84–85 |
| Minimum Total Hours—BA with a Major in Anthropology | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|-------|
| ANTH 101—World Cultures: Introduction to Social Anthropology ^{ab} | 3 |
| ANTH 102—Introduction to Archaeology ^{ac} | 4 |
| ANTH 105—Human Evolution ^{de} | 4 |

One course in physical anthropology from the following:^d

| | |
|---|-----|
| ANTH 231—Fossil Humans (4) | 3–4 |
| ANTH 235—Biological Bases and Evolution of Human Behavior (4) | |
| ANTH 237—The Human Skeleton (4) | |
| ANTH 238—Biology of Women (3) | |

One course in archaeology from the following:

| | |
|--|---|
| ANTH 220—Method and Theory in Archaeology (3) | 3 |
| ANTH 221—Old World Archaeology I (3) | |
| ANTH 222—Hunter-Gathers, Farmers, and Herders (3) | |
| ANTH 226—Archaeology of North America (3) | |
| ANTH 227—Ancient Civilizations of Mexico and Central America (3) | |
| ANTH 228/LALS 259—Ancient Civilizations of South America (3) | |

One course in ethnography chosen from the following:^d

| | |
|--|---|
| ANTH 270—The First Americans (3) | 3 |
| ANTH 271—American Indian Religion and Philosophy (3) | |
| ANTH 272—North American Indians (3) | |
| ANTH/GEOG 273—Ethnography of Southeast Asia (3) | |
| ANTH 274—Ethnography of Africa (3) | |
| ANTH 275/LALS 255—South American Indians (3) | |
| ANTH 276—Pacific Island Cultures (3) | |
| ANTH 277/LALS 270—Ethnography of Mesoamerica (3) | |
| ANTH 278/LALS 272—Brazil: A Multiethnic Society (3) | |
| ANTH/ASST 279—South Asian Cultures and Societies (3) | |
| ANTH/ASST 280—China and Japan: Society and Culture (3) | |
| ANTH 281—Ethnography of North Africa and the Middle East (3) | |

| | |
|---------------------------------------|---|
| ANTH 309—Writing Culture ^g | 3 |
|---------------------------------------|---|

| | |
|--|----|
| Four additional anthropology courses, at least two of which must be at the 300- or 400-level | 12 |
|--|----|

| | |
|---------------------------------------|--------------|
| Total Hours—Major Requirements | 35–36 |
|---------------------------------------|--------------|

^a This course is approved for the *Exploring World Cultures General Education category*.

^b This course is approved for the *Understanding the Individual and Society General Education category*.

^c This course is approved for the *Understanding the Past General Education category*.

^d This course is approved for the *Analyzing the Natural World General*

Education category.

^e This course is approved for the Understanding the Past General Education category.

^f Students should consult General Education section of the catalog to determine which of the following courses are approved General Education courses.

^g ANTH 309 fulfills the Writing-in-the-Discipline requirement.

Courses for the major are chosen in consultation with the department's program advisor. A major interested in a sub-discipline of anthropology (social, physical, archaeological, or linguistic) must arrange a suitable program of electives with an advisor.

Recommended Plan of Study

To view a recommended plan of study for the major in Anthropology, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Anthropology

Students from other disciplines who want to minor in Anthropology must complete 20 semester hours as outlined below. Courses for the minor are chosen in consultation with the department's program advisor.

| Required Courses—Anthropology Minor | Hours |
|--|-----------|
| ANTH 101—World Cultures: Introduction to Social Anthropology | 3 |
| ANTH 102—Introduction to Archaeology | 3 |
| ANTH 105—Human Evolution | 5 |
| Three additional courses at the 200-, 300-, or 400-level | 9 |
| Total Hours—Anthropology Minor | 20 |

Distinction in Anthropology

To be considered for distinction, a candidate must have a 3.00/4.00 cumulative GPA and meet all the requirements for a major in Anthropology, plus the following:

- 3.50/4.00 GPA in the major for **Distinction**
- 3.75/4.00 GPA in the major for **High Distinction**
- 3.75/4.00 GPA in the major and satisfactorily complete a thesis in ANTH 390—Honors Research for **Highest Distinction**. This course involves the preparation of an honors research paper, under the supervision of a faculty member of the student's choosing, and its acceptance by a three-member honors committee especially constituted for this purpose.

Minor in Geography

Geography studies the connections among people, places, and environments. The minor gives students a sound foundation in geography as a research-oriented and policy-related field of study. The minor also offers students the opportunity to acquire a variety of techniques and skills necessary to understand the spatial dimension of human changes in the physical earth, and to identify and analyze urban problems.

Geography as a discipline prepares students for a wide variety of employment opportunities in the public and private sectors, including careers in the fields of planning, transportation, real estate and industrial development, publishing, banking, marketing, and resource management.

Students planning to declare a minor in Geography should consult the director of undergraduate studies in geography or a department academic advisor.

Minor Requirements

Students from other disciplines who want to minor in Geography must complete 18–21 semester hours as outlined below.

| Required Courses—Geography Minor | Hours |
|----------------------------------|-------|
| GEOG 100—Concepts in Geography | 3 |
| One additional 100-level course | 3 |

One regional, urban, or topics course from the following: 3

| |
|--|
| GEOG 101—World Regional Geography (3) |
| GEOG 202—Geography of the United States and Canada (3) |
| GEOG 207/ANTH 227/LALS 258—Ancient Civilizations of Mexico and Central America (3) |
| GEOG/ANTH 273—Ethnography of Southeast Asia (3) |
| GEOG 401—Topics in Regional Geography (3) |
| ANTH 228—Ancient Civilizations of South America (3) |
| ANTH 274—Ethnography of Africa (3) |
| ANTH 277—Ethnography of Mesoamerica (3) |
| GEOG 211—Chicago: An Urban Geography (3) |
| GEOG 215—A Global Geography of Cities (3) |
| GEOG 141—Environmental Geography (3) |
| GEOG 151—Introduction to Cultural Geography (3) |
| GEOG 161—Introduction to Economic Geography (3) |
| GEOG 241—Resource Problems in the United States (3) |
| GEOG 432/ANTH 421—Geomorphology and Archaeology (3) |
| GEOG 441—Topics in Resource Management and Policy (3) |
| GEOG/ANTH 453—Seminar in Cultural Ecology (3) |
| GEOG/ANTH 455—Quantitative Methods in Anthropology (3) |
| GEOG 464—Geographic Modeling of Transportation Systems (3) |

One methods course from the following: 3–4

| |
|---|
| GEOG 175—The Making of Maps (4) |
| GEOG/ANTH 386—Elements of Spatial Analysis (3) |
| GEOG/ANTH 425—Field Techniques in Archaeology (4) |
| GEOG/ANTH 426—Laboratory Techniques in Archaeology (4) |
| GEOG 475—Thematic Cartography (4) |
| GEOG/ANTH 477—Remote Sensing of the Environment (3) |
| GEOG/ANTH 481—Geographic Information Systems I (4) |
| GEOG/ANTH 482—Geographic Information Systems II (4) |
| GEOG/ANTH 483—Geographic Information Systems III (4) |
| GEOG 484—Qualitative Methods in Geographic Research (3) |
| GEOG 486—Analysis of Geographic Patterns (4) |
| GEOG/ANTH 496—Internship (3) |

| | |
|---|-----|
| At least two courses at the 300- or 400-level | 6–8 |
|---|-----|

| | |
|------------------------------------|--------------|
| Total Hours—Geography Minor | 18–21 |
|------------------------------------|--------------|

ASIAN STUDIES

Office of the Dean
411 University Hall
(312) 355-3448
gallaga@uic.edu
Administration: Bill Gallaga

Minor in Asian Studies

The minor in Asian Studies introduces the student to the history, cultures, and societies of East and South Asia. Courses offered for this minor also explore the origin of Asian American culture and its contemporary expression in the United States.

Requirements for the Minor

Students wishing to minor in Asian Studies must complete 15 semester hours, including the following courses:

| Required Courses—Asian Studies Minor | Hours |
|--|-------|
| ASST/HIST 109—East Asian Civilization: China | 3 |
| ASST/HIST 110—East Asian Civilization: Japan | 3 |

| | |
|--|-----------|
| Three courses from the lists below, chosen in consultation with an advisor | 9 |
| Total Hours—Asian Studies Minor | 15 |

Courses Recommended for the Minor in Asian Studies

| Courses | Hours |
|--|--------------|
| Anthropology (ANTH) | |
| 215—Non-Western Religions | 3 |
| 273—Ethnography of Southeast Asia <i>Same as GEOG 273</i> | 3 |
| Asian Studies (ASST) | |
| 109—East Asian Civilization: China <i>Same as HIST 109</i> | 3 |
| 110—East Asian Civilization: Japan <i>Same as HIST 110</i> | 3 |
| 228—Sociology of Asia and Asian Americans <i>Same as SOC 228</i> | 3 |
| 231—Politics in China <i>Same as POLS 231</i> | 3 |
| 232—Politics in Japan and Korea <i>Same as POLS 232</i> | 3 |
| 271—Late Imperial China: 1500 to 1911 <i>Same as HIST 271</i> | 3 |
| 272—China since 1911 <i>Same as HIST 272</i> | 3 |
| 273—Japan to 1600 <i>Same as HIST 273</i> | 3 |
| 274—Japan since 1600 <i>Same as HIST 274</i> | 3 |
| 275—History of South Asia <i>Same as HIST 275</i> | 3 |
| 279—South Asian Cultures and Societies <i>Same as ANTH 279</i> | 3 |
| 280—China and Japan: Society and Culture <i>Same as ANTH 280</i> | 3 |
| 320—Asian Architecture <i>Same as AH 320</i> | 3 |
| 370—Chinese Visual Culture <i>Same as AH 370</i> | 3 |
| 371—Japanese Art <i>Same as AH 371</i> | 3 |
| 471—Topics in Asian Art and Architecture <i>Same as AH 471</i> | 3 |
| 472—Issues and Events in 20th Century China <i>Same as HIST 472</i> | 3 |
| 473—Topics in East Asian History <i>Same as HIST 473</i> | 3 |
| 478—Women in Chinese History <i>Same as HIST 478</i> | 3 |
| 479—Culture and Colonialism in South Asia <i>Same as ANTH 479, HIST 479</i> | 3 |
| Economics (ECON) | |
| 325—Topics in Economic History ^a | 3 |
| History (HIST) | |
| 497—Topics in Cultural History ^a | 3 |

Linguistics and Languages

Only one course in either Chinese or Japanese language may be counted toward the minor.

| | |
|--|---|
| CHIN 101—Elementary Chinese I | 4 |
| CHIN 102—Elementary Chinese II | 4 |
| CHIN 103—Intermediate Chinese I | 4 |
| CHIN 104—Intermediate Chinese II | 4 |
| CHIN 111—Chinese for Students from Chinese Background I | 4 |
| CHIN 112—Chinese for Students from Chinese Background II | 4 |
| JPN 101—Elementary Japanese I | 4 |
| JPN 102—Elementary Japanese II | 4 |
| JPN 103—Intermediate Japanese I | 4 |
| JPN 104—Intermediate Japanese II | 4 |
| JPN 215—Japanese Language and Culture <i>Same as LING 215</i> | 3 |

Sociology (SOC)

| | |
|---|---|
| 268—Introduction to Comparative Sociology ^a | 3 |
| 440—Topics in Organizations and Institutions ^a | 3 |
| 448—Sociology of Development ^a | 3 |

Theatre (THTR)

| | |
|------------------------|---|
| 245—East Asian Theater | 3 |
|------------------------|---|

^a When topic is Asia.

BIOCHEMISTRY

Department of Chemistry: (312) 996-3161
Interdepartmental Biochemistry Committee:
Louise E. Anderson (Biological Sciences), Wonwha Cho
(Chemistry), Constance Jeffery (Biological Sciences),
Brian Nichols (Biological Sciences)

The Bachelor of Science in Biochemistry is awarded by the College of Liberal Arts and Sciences to students who successfully complete this curriculum. It is a joint program of the Department of Biological Sciences and the Department of Chemistry. It is intended for students planning advanced study in biochemistry or molecular biology, who wish to pursue a medical degree, or who will be seeking employment and careers in biochemistry, molecular biology, biotechnology, or related fields. Students may be advised through either department.

Professional Approval

The BS in Biochemistry is certified by the American Chemical Society and endorsed by the American Society of Biochemistry and Molecular Biology.

BS in Biochemistry

Degree Requirements

To earn a Bachelor of Science in Biochemistry degree from UIC, students need to complete University, college, and department degree requirements. The degree requirements for the Department of Biological Sciences and the Department of Chemistry are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS in Biochemistry Degree Requirements | Hours |
|---|--------------|
| Requirements for the Curriculum | 120 |
| Total Hours—BS in Biochemistry | 120 |

Requirements for the Curriculum

The requirements for the curriculum include the courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|--|------------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (the equivalent of two years of a single language at the college level) | 0–16 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^{bc} | 5 |
| MATH 181—Calculus II ^c | 5 |
| One of the following sequences in physics: | 8–10 |
| PHYS 141—General Physics I (Mechanics) (4) ^c | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^c | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) ^{cd} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{cd} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{cd} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{cd} | |
| BIOS 100—Biology of Cells and Organisms ^c | 5 |
| BIOS 101—Biology of Populations and Communities ^c | 5 |
| BIOS 220—Mendelian and Molecular Genetics | 3 |
| One of the following sequences in general and analytical chemistry: | 14 |
| CHEM 116—Honors General Chemistry I (5) ^c | |
| CHEM 118—Honors General Chemistry II (5) ^c | |
| CHEM 222—Analytical Chemistry (4) | |
| OR | |
| CHEM 112—General College Chemistry I (5) ^c | |
| CHEM 114—General College Chemistry II (5) ^c | |
| CHEM 222—Analytical Chemistry (4) | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| One of the following physical chemistry sequences: | 9 |
| CHEM 342—Physical Chemistry I (3) | |
| CHEM 343—Physical Chemistry Laboratory (3) ^e | |
| CHEM 346—Physical Chemistry II (3) | |
| OR | |
| CHEM 342—Physical Chemistry I (3) | |
| CHEM 343—Physical Chemistry Laboratory (3) ^e | |
| CHEM 344—Physical Chemistry for Biochemists (3) | |
| CHEM/BIOS 452—Biochemistry I | 4 |
| CHEM/BIOS 454—Biochemistry II | 4 |
| CHEM 455—Biochemistry Laboratory | 3 |
| CHEM 314—Inorganic Chemistry | 4 |
| Electives, chosen in consultation with an academic advisor, including at least two advanced-level courses (6 hours) in the biological sciences. One of these courses must be from either the area of cell and molecular biology or the area of microbiology. | 6–21 |
| Minimum Total Hours—Requirements for the Curriculum | 120 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c This course is approved for the Analyzing the Natural World General Education category.

^d Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

^e CHEM 343 fulfills the LAS Writing-in-the-Discipline requirement.

Recommended Plan of Study

Note: Students who are not ready to take MATH 180 and CHEM 112 in the first year should expect to take summer session courses and/or take longer than four years to graduate.

Freshman Year

| Courses | Hours |
|---|-------|
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| One of the following general and analytical chemistry sequences: | 10 |
| CHEM 116—Honors General Chemistry I (5) | |
| CHEM 118—Honors General Chemistry II (5) | |
| OR | |
| CHEM 112—General College Chemistry I (5) | |
| CHEM 114—General College Chemistry II (5) | |
| BIOS 100—Biology of Cells and Organisms | 5 |
| BIOS 101—Biology of Populations and Communities | 5 |

Sophomore Year

| Courses | Hours |
|---|---------|
| One of the following general physics sequences: | 8 or 10 |
| PHYS 141—General Physics I (Mechanics) (4) | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) | |
| PHYS 106—Introductory Physics I—Laboratory (1) | |
| PHYS 107—Introductory Physics II—Lecture (4) | |
| PHYS 108—Introductory Physics II—Laboratory (1) | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 222—Analytical Chemistry | 4 |
| BIOS 220—Mendelian and Molecular Genetics | 3 |
| College requirements | |

Junior Year

| Courses | Hours |
|--|--------|
| CHEM 314—Inorganic Chemistry | 4 |
| One of the following options: | 9 or 3 |
| CHEM 342—Physical Chemistry I (3) | |
| CHEM 343—Physical Chemistry Laboratory (3) | |
| CHEM 346—Physical Chemistry II (3) | |
| OR | |
| CHEM 342—Physical Chemistry I (3) | |
| Electives and College requirements | |

Senior Year

| Courses | Hours |
|---|--------|
| CHEM/BIOS 452—Biochemistry I | 4 |
| CHEM/BIOS 454—Biochemistry II | 4 |
| One of the following options: | 6 or 0 |
| CHEM 343—Physical Chemistry Laboratory (3) | |
| CHEM 344—Physical Chemistry for Biochemists (3) | |
| OR | |
| None | |
| CHEM 455—Biochemistry Laboratory | 3 |
| Electives and College requirements | |

Distinction

Distinction. Research is recognized as an important component of the honors candidate's program. Favorable consideration will be given to those individuals who demonstrate superior performance in chemical or biological research. Distinction in biochemistry is awarded to students who qualify as described below:

1. A GPA of at least 3.50/4.00 in chemistry, biology, and mathematics courses, excluding independent study or independent research.
2. Evidence of biochemical research ability as demonstrated by research in chemistry CHEM 499—Supervised Research (3) or BIOS 399—Independent Research (2). Students who qualify for program distinction may be conferred high or highest distinction on the basis of superior performance.

High Distinction. In addition to fulfilling criterion 2 above, a GPA of at least 3.70/4.00 in chemistry, biology, mathematics, and physics courses.

Highest Distinction. In addition to fulfilling criterion 2 above, a GPA of at least 3.80/4.00 in chemistry, biology, mathematics, and physics courses, and presentation of other evidence of truly exceptional performance. Such performance may be identified in one or more of the following ways: independent research at an advanced level, superior performance in class work beyond that reflected in the grade point average, rapid completion of course requirements, completion of honors activities in 300-level course work taken through the Honors College.

DEPARTMENT OF BIOLOGICAL SCIENCES

3268 Science and Engineering South (SES)
(312) 996-2211

<http://www.uic.edu/depts/bios/>

Administration: Head, Brian Kay

Director of Undergraduate Studies, Joel S. Brown

The Biological Sciences majors study life, living organisms, and vital processes. Within this broad context, students and faculty pursue diverse programs, including, but not limited to, biochemistry, botany, cell biology, developmental, ecology, environmental sciences, ethology, evolution, genetics, microbiology, molecular biology, morphology, paleontology, photosynthesis, physiology (animal, microbial, and plant), population biology, and virology. Students completing a baccalaureate degree in Biological Sciences are prepared for positions in teaching and governmental or industrial laboratories and are also qualified to pursue graduate studies in any of several concentrations within the biological sciences as well as the health professions.

The Department of Biological Sciences offers a program leading to the Bachelor of Science in Liberal Arts and Sciences with a Major in Biological Sciences. A Minor in Biological Sciences is also offered.

BS with a Major in Biological Sciences

Degree Requirements

To earn a Bachelor of Science in Liberal Arts and Sciences degree from UIC, students must complete University, college, and departmental degree requirements. The Department of Biological Sciences degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BS with a Major in Biological Sciences

| Degree Requirements | Hours |
|---|------------|
| Required Prerequisite and Collateral Courses | 32–34 |
| Major Requirements | 36 |
| General Education and Electives to reach Minimum Total Hours | 50–52 |
| Minimum Total Hours—BS with a Major in Biological Sciences | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisors to determine which courses are counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses

| Courses | Hours |
|--|--------------|
| MATH 180—Calculus I ^{ab} | 5 |
| One of the following sequences in physics: | 8–10 |
| PHYS 141—General Physics I (Mechanics) (4) ^b | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^b | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) ^{bc} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{bc} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{bc} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{bc} | |
| One of the following sequences in general chemistry: | 10 |
| CHEM 116—Honors General Chemistry I (5) ^b | |
| CHEM 118—Honors General Chemistry II (5) ^b | |
| OR | |
| CHEM 112—General College Chemistry I (5) ^b | |
| CHEM 114—General College Chemistry II (5) ^b | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| Total Hours—Required Prerequisite and Collateral Courses | 32–34 |

^a MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

Major Requirements

Of the 36 semester hours for the major, no more than 10 hours may be at the 100-level and at least 5 hours must be at the 300-level or above, excluding 391 and 399.

| Courses | Hours |
|--|-------|
| BIOS 100—Biology of Cells and Organisms ^a | 5 |
| BIOS 101—Biology of Populations and Communities ^a | 5 |
| BIOS 220—Mendelian and Molecular Genetics | 3 |
| BIOS 221—Genetics Laboratory ^b | 3 |
| BIOS 222—Cell Biology | 3 |
| BIOS 230—Ecology and Evolution | 3 |
| BIOS 240—Homeostasis: The Physiology of Plants and Animals | 3 |

**At least two laboratory courses from the following list,
assuming all prerequisites have been met:**

| | |
|---|------|
| BIOS 223—Cell Biology Laboratory (2) | 4–10 |
| BIOS 272—Comparative Vertebrate Anatomy (5) | |
| BIOS 321—Developmental Biology Laboratory (3) | |
| BIOS 325—Vertebrate Embryology (5) | |

BIOS 331—General Ecology Laboratory (3)
 BIOS 351—Microbiology Laboratory (2)
 BIOS 443—Animal Physiological Systems (4)

Additional courses at the 200-level or above, chosen with the consent of an advisor, to bring the total to 36 semester hours in biological sciences. No more than 5 hours of independent study and research courses may be applied to the minimum hours required for the major. 1–7

Total Hours—Major Requirements 36

^a This course is approved for the *Analyzing the Natural World General Education* category.

^b BIOS 221 fulfills the *Writing-in-the-Discipline* requirement.

Recommended Plan of Study

To view a recommended plan of study for the major in Biological Sciences, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Biological Sciences

Students from other disciplines who want to minor in Biological Sciences must complete 21 semester hours distributed as follows:

| Required Courses—Biological Sciences Minor | Hours |
|---|-------|
| BIOS 100—Biology of Cells and Organisms | 5 |
| BIOS 101—Biology of Populations and Communities | 5 |

Courses in the biological sciences at the 200-level or above, chosen in consultation with department advisor. 11

Total Hours—Biological Sciences Minor 21

Distinction

Departmental Distinction. Departmental Distinction is awarded to students with a minimum 3.70/4.00 GPA in biological sciences courses and to students with a minimum 3.30/4.00 GPA in biological sciences courses who successfully complete BIOS 399—Independent Research.

Highest Departmental Distinction. Highest Departmental Distinction is awarded to students who have a minimum 3.70/4.00 GPA in biological sciences courses and who successfully complete BIOS 399—Independent Research.

DEPARTMENT OF CHEMISTRY

4500 Science and Engineering South (SES)
 (312) 996-3161

<http://www.chem.uic.edu>

Administration: Head, Robert Gordon
 Director of Undergraduate Studies, Donald Wink

Chemistry is a central science that provides much of the fundamental understanding needed to deal with society's needs. It is critical in feeding, clothing, and housing humankind, in providing renewable substitutes for dwindling or scarce materials, in improving health, and in monitoring and protecting our environment.

The Department of Chemistry offers four undergraduate degrees.

1. The Bachelor of Science in Chemistry is recommended for anyone considering a professional career in chemistry. It prepares its graduates for admission to graduate schools in chemistry, to medical schools and to professional positions in industry, the health field, and governmental agencies.

2. The Bachelor of Arts with a Major in Chemistry requires fewer chemistry courses and permits a larger number of electives outside of chemistry. It provides a basis for admission to medical schools and dental schools. The degree also provides a useful background for those who wish to pursue careers in business (management, marketing, sales).
3. The Bachelor of Science in the Teaching of Chemistry is a program for prospective high school chemistry teachers.
4. The Bachelor of Science in Biochemistry, offered jointly with the Department of Biological Sciences, provides preparation for graduate study in biochemistry, for studies in medical and dental schools, or for careers in biotechnology. For more detailed information, see the *Biochemistry* section.

The department also offers a Minor in Chemistry.

Faculty advising is provided for all students majoring in the department. To be identified for effective advising, students should declare the chemistry major by the end of the freshman year. Transfer students should declare the major at the time of registration or during their first term in residence. Students considering changing to a major in chemistry at a later point in their careers should first obtain advice from the department.

Professional Approval

The Bachelor of Science in Chemistry and Bachelor of Science in Biochemistry programs have been approved by the American Chemical Society, and graduates are immediately eligible for full membership in the society.

BA with a Major in Chemistry

Degree Requirements—BA with a Major in Chemistry

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Chemistry degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Chemistry Degree Requirements | Hours |
|--|------------|
| Required Prerequisite and Collateral Courses | 18–20 |
| Major Requirements | 39 |
| General Education and Electives to reach Minimum Total Hours | 61–63 |
| Minimum Total Hours—BA with a Major in Chemistry | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisors to determine which courses are counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses

| Courses | Hours |
|-----------------------------------|-------|
| MATH 180—Calculus I ^{ab} | 5 |
| MATH 181—Calculus II ^a | 5 |

| | |
|---|--------------|
| One of the following sequences in physics: | 8–10 |
| PHYS 141—General Physics I (Mechanics) (4) ^{ac} | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^{ac} | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) ^{ad} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{ad} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{ad} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{ad} | |
| Total Hours—Required Prerequisite and Collateral Courses | 18–20 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c PHYS 141 and 142 are recommended.

^d Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

Major Requirements

| Courses | Hours |
|--|-----------|
| One of the following sequences in general and analytical chemistry: | 14 |
| CHEM 112—General College Chemistry I (5) ^a | |
| CHEM 114—General College Chemistry II (5) ^a | |
| CHEM 222—Analytical Chemistry (4) | |
| OR | |
| CHEM 116—Honors General Chemistry I (5) ^a | |
| CHEM 118—Honors General Chemistry II (5) ^a | |
| CHEM 222—Analytical Chemistry (4) | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| One of the following physical chemistry sequences: | 9 |
| CHEM 342—Physical Chemistry I (3) | |
| CHEM 343—Physical Chemistry Laboratory (3) ^b | |
| CHEM 346—Physical Chemistry II (3) | |
| OR | |
| CHEM 340—Physical Chemistry for Biochemists I (3) | |
| CHEM 343—Physical Chemistry Laboratory (3) ^b | |
| CHEM 344—Physical Chemistry for Biochemists II (3) | |
| CHEM 314—Inorganic Chemistry I | 4 |
| Chemistry Electives | 3 |
| Total Hours—Major Requirements | 39 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b CHEM 343 fulfills the Writing-in-the-Discipline requirement.

Recommended Plan of Study

To view a recommended plan of study for the BA with a Major in Chemistry, please see the end of this department listing or visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Chemistry

Students from other disciplines who want to minor in Chemistry must complete 18–19 semester hours distributed as follows:

| | |
|--|--------------|
| Required Courses—Chemistry Minor | Hours |
| One of the following sequences: | 10 |
| CHEM 112—General College Chemistry I (5) | |
| CHEM 114—General College Chemistry II (5) | |
| OR | |
| CHEM 116—Honors General College Chemistry I (5) | |
| CHEM 118—Honors General College Chemistry II (5) | |

| | |
|---|--------------|
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| One of the following courses: | 3–4 |
| CHEM 314—Inorganic Chemistry (4) | |
| CHEM 340—Physical Chemistry for Biochemists I (3) | |
| CHEM 342—Physical Chemistry I (3) | |
| Total Hours—Chemistry Minor | 18–19 |

BS in the Teaching of Chemistry

Degree Requirements—BS in the Teaching of Chemistry

To earn a Bachelor of Science in the Teaching of Chemistry degree from UIC, students must complete University, college, and department degree requirements. The Department of Chemistry degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BS in the Teaching of Chemistry

| Degree Requirements | Hours |
|--|--------------------|
| Required Prerequisite and Collateral Courses | 30–32 |
| Major Requirements | 40 |
| Additional Requirements for Teacher Certification | 17 |
| Courses Recommended for Science Teacher Certification | 8–19 |
| General Education ^a | 35–65 ^a |
| Minimum Total Hours—BS in the Teaching of Chemistry | 120 |

^a This is an estimated range for the General Education requirements. Students should consult the course lists below and the College of Liberal Arts and Sciences section of the catalog for information on meeting these requirements.

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisors to determine which courses are counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses

| Courses | Hours |
|-----------------------------------|-------|
| MATH 180—Calculus I ^{ab} | 5 |
| MATH 181—Calculus II ^a | 5 |

One of the following sequences in physics (PHYS 141 and 142 recommended):

| | |
|--|------|
| | 8–10 |
| PHYS 141—General Physics I (Mechanics) (4) ^a | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^a | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) ^{ac} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{ac} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{ac} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{ac} | |

| | |
|---|---|
| CHEM 470—Educational Practice with Seminar I | 6 |
| CHEM 471—Educational Practice with Seminar II | 6 |

| | |
|---|--------------|
| Total Hours—Required Prerequisite and Collateral Courses | 30–32 |
|---|--------------|

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

Major Requirements

| Courses | Hours |
|--|-----------|
| One of the following sequences in general and analytical chemistry: | 14 |
| CHEM 116—Honors General Chemistry I (5) ^a | |
| CHEM 118—Honors General Chemistry II (5) ^a | |
| CHEM 222—Analytical Chemistry (4) | |
| OR | |
| CHEM 112—General College Chemistry I (5) ^a | |
| CHEM 114—General College Chemistry II (5) ^a | |
| CHEM 222—Analytical Chemistry (4) | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 314—Inorganic Chemistry | 4 |
| CHEM 340—Physical Chemistry for Biochemists I | 3 |
| CHEM 343—Physical Chemistry Laboratory ^b | 3 |
| CHEM 344—Physical Chemistry for Biochemists II | 3 |
| CHEM 402—Chemical Information Systems | 2 |
| CHEM 472—Teaching Methods in Chemistry | 2 |
| Total Hours—Major Requirements | 40 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b CHEM 343 fulfills the Writing-in-the-Discipline requirement.

Additional Requirements for Teacher Certification

| Courses | Hours |
|--|-----------|
| ED 200—Education Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | 4 |
| CI 414—Middle and High School Literacy | 4 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| Total Hours—Additional Requirements for Teacher Certification | 17 |

Courses Recommended for Science Teacher Certification

| Courses | Hours |
|--|-------------|
| One of the following options: | 4 or 9 |
| NATS 101—Physical World (4) ^a | |
| OR | |
| EAES 107—The Changing Earth (5) | |
| PHYS 112—Astronomy and the Universe (4) ^a | |
| One of the following options: | 4 or 10 |
| NATS 103—Biological World (4) ^a | |
| OR | |
| BIOS 100—Biology of Cells and Organisms (5) ^a | |
| BIOS 101—Biology of Populations and Communities (5) ^a | |
| Total Hours—Additional Requirements for Science Teacher Certification | 8–19 |

^a This course is approved for the Analyzing the Natural World General Education category.

Note: Although these courses are not required, they are recommended because of the presence of certain topics on the content exam students must pass before being allowed to student teach.

In addition to specified course work in the major field, teacher education students must fulfill certain other course requirements for certification, discussed below. Students must also maintain a minimum cumulative GPA of 2.50/4.00 in all undergraduate courses and in all undergraduate chemistry courses, including transferred courses.

A GPA of 3.00/4.00 in required education courses, with no grade lower than a C in each of the courses, is also required. A GPA of 2.50/4.00 in undergraduate chemistry courses including transferred courses is also required for registration in the student teaching semester (CHEM 470 and 471).

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate in the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basic Skills Tests must be passed prior to applying for candidacy in the Council on Teacher Education. The Content Area Tests must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For more information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See *Council on Teacher Education and Secondary Education Program* in the *College of Education* section of the catalog.

Recommended Plan of Study

To view a recommended plan of study for the BS in the Teaching of Chemistry, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

BS in Chemistry**Degree Requirements—BS in Chemistry**

To earn a Bachelor of Science in Chemistry degree from UIC, students need to complete University, college, and department degree requirements. The Department of Chemistry degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS in Chemistry Degree Requirements | Hours |
|-------------------------------------|------------|
| Requirements for the Curriculum | 120 |
| Total Hours—BS in Chemistry | 120 |

Requirements for the Curriculum

The requirements for the curriculum include the courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|--|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (the equivalent of two years of a single language at the college level) | 0–16 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^{b,c} | 5 |
| MATH 181—Calculus II ^c | 5 |
| MATH 210—Calculus III ^c | 3 |
| PHYS 141—General Physics I (Mechanics) ^c | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^c | 4 |

One of the following sequences in general and analytical chemistry:

| | |
|--|----|
| CHEM 116—Honors General Chemistry I (5) ^{cd} | 14 |
| CHEM 118—Honors General Chemistry II (5) ^{cd} | |
| CHEM 222—Analytical Chemistry (4) ^d | |

OR

| | |
|--|--|
| CHEM 112—General College Chemistry I (5) ^c | |
| CHEM 114—General College Chemistry II (5) ^c | |
| CHEM 222—Analytical Chemistry (4) | |

| | |
|---|---|
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 314—Inorganic Chemistry | 4 |
| CHEM 333—Advanced Synthetic Laboratory | 3 |
| CHEM 342—Physical Chemistry I | 3 |
| CHEM 343—Physical Chemistry Laboratory ^e | 3 |
| CHEM 346—Physical Chemistry II | 3 |
| CHEM 402—Chemical Information Systems | 2 |
| CHEM 421—Instrumental Analysis | 4 |
| CHEM 452—Biochemistry I | 4 |

One of the following advanced lecture courses:

| | |
|---|---|
| CHEM 414—Advanced Inorganic Chemistry (2) | 2 |
| CHEM 432—Advanced Organic Chemistry (2) | |
| CHEM 444—Advanced Physical Chemistry (2) | |

One of the following advanced lecture courses:

| | |
|---|---|
| CHEM 415—Inorganic Chemistry Laboratory (3) | 3 |
| CHEM 455—Biochemistry Laboratory (3) | |
| CHEM 499—Supervised Research (3) | |

Electives at the 300-level or above in the natural sciences or mathematics, as approved by the departmental advisor 3

Electives 5–21

Total Hours—Requirements for the Curriculum 120

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c This course is approved for the Analyzing the Natural World General Education category.

^d CHEM 116, 118, and 222 are recommended.

^e CHEM 343 fulfills the LAS Writing-in-the-Discipline requirement.

Recommended Plan of Study

To view a recommended plan of study for the BS in Chemistry, please see the end of this department listing or visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Distinction

Departmental Distinction. Chemical research is recognized as an important component of the honors candidate's program. Favorable consideration for Departmental Distinction will be given to those students who combine superior class performance with research accomplishments. Distinction may be awarded to students who have met the following criteria:

1. Completed a BS degree or have a distribution of courses with advanced hours in chemistry beyond the BA requirements.
2. Earned a GPA of at least 3.50/4.00 in science and mathematics courses.
3. Completed the physical chemistry 342, 343, 346 sequence.
4. Shown ability in chemical research by completing a research project or advanced laboratory courses.

High Distinction. In addition to fulfilling the conditions for Distinction, candidates are required to have a GPA of 3.70/4.00 or above in science and mathematics courses, and have completed a research project in the Department of Chemistry.

Highest Distinction. In addition to fulfilling criteria for High Distinction, candidates are required to have a GPA of 3.80/4.00 or above in science and mathematics courses, and to present evidence of exceptional performance in research.

Note: For determining Distinction, the GPA will be calculated using all of the credits that are being applied to the degree—from UIC and from any transfer institution.

Recommended Plan of Study

Chemistry is a highly structured discipline. Because most advanced courses require physical chemistry as a prerequisite, which in turn requires prerequisites of general chemistry, physics, and mathematics, careful course planning is essential. It is best to start with mathematics and general chemistry in the first year, followed by organic chemistry and physics in the second year, and physical chemistry in the third year. A recommended basic course sequence for the BS and BA is given below. Consult the *Biochemistry* section for more information on the BS in Biochemistry and *Secondary Education Program* in the *College of Education* section for more information on the BS in the Teaching of Chemistry.

Note: Students who are not ready to start with MATH 180 and CHEM 112 should expect to take summer session courses and/or take longer than four years to graduate.

Freshman Year

| Courses | Hours |
|----------------------|-------|
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |

One of the following general and analytical chemistry sequences:

| | |
|--|----|
| CHEM 116—Honors General Chemistry I (5) | 10 |
| CHEM 118—Honors General Chemistry II (5) | |

OR

| | |
|---|--|
| CHEM 112—General College Chemistry I (5) | |
| CHEM 114—General College Chemistry II (5) | |

College requirements

Sophomore Year

| Courses | Hours |
|---|-------|
| CHEM 222—Analytical Chemistry | 4 |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 333—Advanced Synthetic Laboratory | 3 |

One of the following general physics sequences:

| | |
|---|------|
| PHYS 141—General Physics I (Mechanics) (4) | 8–10 |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) | |

OR

| | |
|--|---|
| PHYS 105—Introductory Physics I—Lecture (4) ^a | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^a | |
| PHYS 107—Introductory Physics II—Lecture (4) ^a | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^a | |
| MATH 210—Calculus III ^b | 3 |

College requirements

| Junior Year Courses | Hours |
|--|--------|
| One of the following options: | 3 or 9 |
| CHEM 340—Physical Chemistry for Biochemists I (3) ^a | |
| OR | |
| CHEM 342—Physical Chemistry I (3) | |
| CHEM 343—Physical Chemistry Laboratory (3) | |
| CHEM 346—Physical Chemistry II (3) | |
| CHEM 314—Inorganic Chemistry | 4 |
| College requirements and electives | |

| Senior Year Courses | Hours |
|--|-------|
| One of the following options: | 9–14 |
| CHEM 344—Physical Chemistry for Biochemists II (3) ^a | |
| CHEM 343—Physical Chemistry Laboratory (3) | |
| Chemistry electives (3) | |
| OR | |
| CHEM 402—Chemical Information Systems (2) ^b | |
| CHEM 421—Instrumental Analysis (4) ^c | |
| CHEM 414 or 432 or 444 (2) ^c | |
| CHEM 415 or 455 or 499 (3) ^c | |
| Electives at the 300-level or above in the natural sciences or mathematics, as approved by the departmental advisor (3) ^c | |
| College requirements and electives | |

^a These courses are not acceptable for the BS in Chemistry degree program.

^b These courses are required for the BS in Chemistry and the BS in Teaching of Chemistry degrees only.

^c These courses are required for the BS in Chemistry degree only.

DEPARTMENT OF CLASSICS AND MEDITERRANEAN STUDIES

1804 University Hall (UH)
(312) 996-3281
<http://www.uic.edu/las/clas/>
Administration: Head, John Ramsey
Director of Undergraduate Studies, Nanno Marinatos,
nannom@uic.edu

Classics is the study of the languages, literatures, and civilizations of ancient Greece and Rome. The Department of Classics and Mediterranean Studies provides a full range of courses in translation, from introductory and surveys of ancient culture and mythology to advanced treatments of various aspects of classical society and literary genres. It offers courses on ancient religions, the art and archaeology of the Greco-Roman world, as well as on ancient Egypt and the Near East. Latin, Arabic, and Ancient Greek are taught from the introductory through the advanced levels, while courses in Modern Greek and Hebrew are taught from the introductory through the intermediate levels (101–104).

Students who major in classics (classical languages or classical civilizations) may go on to pursue careers in professional scholarship and teaching at college or high school level, but there are many other possibilities. For example, recent classics majors have entered law, medical, and divinity schools, while others have taken positions in business. The training in precise expression and critical thinking that a classics major receives is widely respected by employers.

The Department of Classics and Mediterranean Studies offers programs leading to the Bachelor of Arts with majors in Classical Civilization and Classical Languages and Literatures. Minors in Ancient Greek or Latin and Classical Civilization are also offered.

BA with a Major in Classical Languages and Literatures^a

Majors in Classical Languages and Literatures must complete a concentration in either Ancient Greek or Latin.

Degree Requirements—Classical Languages and Literatures

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Classics and Mediterranean Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Classical Languages and Literatures Degree Requirements | Hours |
|---|------------|
| Concentration Requirements | 27 |
| General Education and Electives to reach Minimum Total Hours | 93 |
| Minimum Total Hours—BA with a Major in Classical Languages and Literatures | 120 |

^a The BA with a Major in Classical Languages and Literatures program is suspended effective Fall 2010.

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Concentration Requirements—Ancient Greek

| Courses | Hours |
|--|-----------|
| Six courses in Ancient Greek, excluding GKA 101/102—Elementary Ancient Greek I/II, with a minimum of 12 hours at the 200-level or above | 18 |
| CL 398—Advanced Topics in Classical Civilization ^a | 3 |
| Two additional courses in classics or archaeological studies in the Department of Classics and Mediterranean Studies, at the 100-level or above, excluding CL 201, chosen from the areas of Greek literature, archaeology, and history | 6 |
| Total Hours—Concentration Requirements—Ancient Greek | 27 |

^a CL 398 fulfills the *Writing-in-the-Discipline* requirement.

Concentration Requirements—Latin

| Courses | Hours |
|--|-----------|
| Six courses in Latin at the 200-level or above | 18 |
| CL 398—Advanced Topics in Classical Civilization ^a | 3 |
| Two additional courses in classics or archaeological studies in the Department of Classics and Mediterranean Studies, at the 100-level or above, excluding CL 201, chosen from the areas of Roman literature, archaeology, and history | 6 |
| Total Hours—Concentration Requirements—Latin | 27 |

^a CL 398 fulfills the *Writing-in-the-Discipline* requirement.

Recommended Plan of Study

To view a recommended plan of study for the major in Classical Languages and Literatures, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Ancient Greek or Latin

Students from other disciplines who want to minor in Ancient Greek* or Latin* must take a total of 18 hours in one of these languages, with a minimum of 6 hours at the 200-level or above.

*Suspended effective Fall 2010.

BA with a Major in Classical Civilization

Degree Requirements—Classical Civilization

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Classics and Mediterranean Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Classical Civilization Degree Requirements | Hours |
|--|------------|
| Major Requirements | 27 |
| Required Collateral Courses | 16 |
| General Education and Electives to reach Minimum Total Hours | 77 |
| Minimum Total Hours—BA with a Major in Classical Civilization | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| Twenty-seven semester hours of courses in classical civilization or archaeological studies in the Department of Classics and Mediterranean Studies, chosen in consultation with the advisor and distributed as follows: | 27 |
| 1. At least one course from each of three areas: literature, archaeology, and history. | |
| 2. A minimum of 18 hours at the 200-level or above, excluding CL 201—Classical Etymology in the Life Sciences. One of the courses must be CL 398—Advanced Topics in Classical Civilization. ^a | |
| 3. A maximum of 9 hours may be chosen from the following related courses ^b in other departments that are cross-listed with Classics: CL/HIST 202, 203, 401, 402, 404; and CL/PHIL 120, 220, 221. | |
| 4. A maximum of 8 hours of the major may be chosen from approved courses in Ancient Greek or Latin. | |

| | |
|---------------------------------------|-----------|
| Total Hours—Major Requirements | 27 |
|---------------------------------------|-----------|

^a CL 398 fulfills the *Writing-in-the-Discipline* requirement.

^b Students should consult the General Education section of the catalog to determine which of the following courses are approved General Education courses.

Required Collateral Courses

| Courses | Hours |
|--|-----------|
| One of the following sequences or the equivalent: | 16 |
| GKA 101—Elementary Ancient Greek I (4) | |
| GKA 102—Elementary Ancient Greek II (4) | |
| GKA 103—Intermediate Ancient Greek I (4) | |
| GKA 104—Intermediate Ancient Greek II (4) | |
| OR | |
| LAT 101—Elementary Latin I (4) | |
| LAT 102—Elementary Latin II (4) | |
| LAT 103—Intermediate Latin I (4) | |
| LAT 104—Intermediate Latin II (4) | |
| Total Hours—Required Collateral Courses | 16 |

Recommended Plan of Study

To view a recommended plan of study for the major in Classical Civilization, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Classical Civilization

Students from other disciplines who want to minor in Classical Civilization must take a total of 18 hours distributed as follows:

| Required Courses—Classical Civilization Minor | Hours |
|--|-----------|
| One course at 100-level | 3 |
| One course from the following: | 3 |
| CL/HIST 202 —The Ancient World: Greece (3) | |
| CL/HIST 203—The Ancient World: Rome (3) | |
| CL 204—Greek Art and Archaeology (3) | |
| CL 205—Roman Art and Archaeology (3) | |
| Four additional courses in classics or archaeological studies in the Department of Classics and Mediterranean Studies, of which at least two must be at the 200-level or above | 12 |
| Total Hours—Classical Civilization Minor | 18 |

A maximum of 9 hours may be taken in related courses listed under the major. No more than 4 semester hours in Ancient Greek or Latin at the level of 103 or above may be applied to the minor.

Distinction

Students who achieve a GPA of 3.75/4.00 in all courses counted for the major and a 3.25/4.00 cumulative GPA are recommended for Department Honors and Distinction.

DEPARTMENT OF COMMUNICATION

1140 Behavioral Sciences Building (BSB)
(312) 996-3187

comm@uic.edu

<http://www.uic.edu/depts/comm>

Administration: Head, Zizi Papacharissi
Director of Undergraduate Studies, Hui-Ching Chang
Academic Advisor: Dace Kezbers, dkezbers@uic.edu

The Department of Communication highlights the role of communication in creating relationships within human societies. Courses range from the personal through the international level and build responsible citizenship.

A degree in communication focuses on social science research, leading to several career paths, including market research, corporate relations, human resources, event planning, advertising, media writing, teaching, and government.

The core courses introduce fundamental concepts, theories, issues, and statistical methods in a variety of settings and build skills in reasoned argument, research, and critical thinking.

Subsequent courses integrate analysis and research, emphasizing observation, production, and consumption as critical processes in which students continually engage, while also emphasizing systematic inquiry that involves students in research activities. The courses foster critical understanding of the ways that individuals, groups, and societies create meanings about their worlds through communication.

BA with a Major in Communication

Admission to the Major

Prior to declaring a major in Communication, students must have the following:

- A minimum of 24 semester hours of courses in the College of Liberal Arts and Sciences
- A cumulative grade point average of 2.50/4.00
- A grade of C or higher in COMM 101—Introduction to Communication

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Communication degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Communication Degree Requirements | Hours |
|--|--------------|
| Major Requirements | 36 |
| General Education and Electives to reach Minimum Total Hours | 84 |
| Minimum Total Hours—BA with a Major in Communication | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|--------------|
| COMM 101—Introduction to Communication ^a | 3 |
| COMM 102—Introduction to Interpersonal Communication ^a | 3 |
| COMM 103—Introduction to Media ^a | 3 |
| COMM 200—Communication Technologies | 3 |
| COMM 201—Statistics in Communication Research ^b | 3 |
| COMM 301—Communication Research ^c | 3 |
| Five additional communication courses at the 200-, 300-, or 400-level with at least 2 courses at the 400-level ^d | 15 |
| One of the following:^e | 3 |
| COMM 490—Seminar in Culture and Communication (3) | |
| COMM 491—Seminar in Media and Communication (3) | |
| Total Hours—Major Requirements | 36 |

^a This course is approved for the *Understanding the Individual and Society General Education* category.

^b COMM 201 also fulfills the *LAS Quantitative Reasoning* requirement.

^c COMM 301 also fulfills the *Writing-in-the-Discipline* requirement.

^d Exclusive of COMM 490 and 491, no more than 3 hours of COMM 474 and 3 hours of COMM 498 may be applied toward the degree. COMM 454 does not count toward the major or minor in Communication.

^e Only one of the seminars, COMM 490 or 491, may be applied toward the major in Communication.

All course work taken to satisfy the Communication major must have a grade of C or better. In addition, a minimum GPA of 2.00/4.00 is required in all courses in the major field taken at UIC.

Recommended Plan of Study

To view a recommended plan of study for the major in Communication, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Communication

Students from other disciplines who want to minor in Communication must complete 18 semester hours as outlined below. A grade of C or better must be earned in all courses counting toward the minor.

| Required Courses—Communication Minor | Hours |
|--|--------------|
| COMM 101—Introduction to Communication | 3 |
| COMM 102—Introduction to Interpersonal Communication | 3 |
| COMM 103—Introduction to Media | 3 |
| COMM 200—Communication Technologies | 3 |

Two COMM electives at the 200-level or higher, except COMM 454^a 6

Total Hours—Communication Minor 18

^a With approval, other social science *Quantitative Reasoning* courses may substitute for COMM 201 as a prerequisite to courses for the COMM electives.

Distinction

For Distinction, the requirements are a cumulative GPA of 3.25/4.00 and a departmental GPA of 3.50/4.00. For High Distinction, the requirements are a cumulative GPA of 3.25/4.00, a departmental grade point average of 3.50/4.00, and satisfactory completion of an advanced original research paper under the supervision of a faculty member of the student's choosing. Refer to the department handbook for procedures and deadlines.

DEPARTMENT OF CRIMINOLOGY, LAW, AND JUSTICE

4022 Behavioral Sciences Building (BSB)
(312) 996-5290

<http://www.uic.edu/depts/cjus>

Administration: Head, Edna Erez

Director of Undergraduate Studies, Lisa Frohmann,
lfrohman@uic.edu

Academic Advisor: Nick Webster, nweb@uic.edu

Criminology, law, and justice is a social and behavioral science field of study that selects crime, law, and the criminal justice system for its subject matter. Using social science methodologies, the program examines the nature, extent, and causes of crime in various settings, the impact of crime on victims and society, and both formal and informal responses to crime. These responses include individual and community reactions, the investigation of crimes and arrest of offenders by the police, and their prosecution, defense, and adjudication by the courts; and an array of sentencing and correctional outcomes. The nature and effectiveness of criminal justice reform efforts are also studied.

The degree prepares graduates for a broad range of professional roles in the criminal justice system, as well as the broader legal system. It also serves as entry to graduate programs of criminal justice and related research and professional programs such as law, sociology, public administration, paralegal studies, and various social services.

BA with a Major in Criminology, Law, and Justice**Admission to the Major**

Prior to declaring a major in Criminology, Law, and Justice, students must achieve a grade of C or better in CLJ 101—Introduction to the Justice System.

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Criminology, Law, and Justice degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Criminology, Law, and Justice Degree Requirements | Hours |
|---|--------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in Criminology, Law, and Justice | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-----------|
| CLJ 101—Introduction to the Justice System ^a | 3 |
| CLJ 200—Law in Society ^a | 3 |
| CLJ 210—Principles of Criminal Law | 3 |
| CLJ 220—Criminology | 3 |
| CLJ 240—Criminal Justice Organizations | 3 |
| CLJ 261—Research Methods I | 3 |
| CLJ 262—Research Methods II ^b | 3 |
| One course from the following: | 3 |
| CLJ 345—Police in Society (3) | |
| CLJ 350—Courts in Society (3) | |
| CLJ 355—Punishment, Prisons, and Corrections (3) | |
| CLJ 301—Writing in the Discipline ^c | 0 |
| Three courses at the 300- or 400-level ^d | 9 |
| Total Hours—Major Requirements | 33 |

^a This course is approved for the Understanding U.S. Society General Education category.

^b CLJ 262 also fulfills the LAS Quantitative Reasoning requirement.

^c CLJ 301 fulfills the Writing-in-the-Discipline requirement.

^d Only 3 hours of CLJ 395 may count toward the degree.

Recommended Plan of Study

To view a recommended plan of study for the major in Criminology, Law, and Justice, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Criminology, Law, and Justice

Students from other disciplines who want to minor in Criminology, Law, and Justice must complete 18 credit hours as outlined below:

| Required Courses—Criminology, Law, and Justice Minor | Hours |
|--|-----------|
| CLJ 101—Introduction to the Justice System | 3 |
| CLJ 200—Law in Society | 3 |
| CLJ 210—Principles of Criminal Law | 3 |
| CLJ 220—Criminology | 3 |
| CLJ 240—Criminal Justice Organizations | 3 |
| One course at the 300- or 400-level chosen with the consent of the advisor | 3 |
| Total Hours—Criminology, Law, and Justice Minor | 18 |

Minor in Law and Society

Students from other disciplines who want to minor in Law and Society must complete 18 credit hours as outlined below:

| Required Courses—Law and Society Minor | Hours |
|---|-------|
| One course from the following: | 3 |
| PHIL 102—Introductory Logic (3) | |
| PHIL 103—Introduction to Ethics (3) | |
| ECON 120—Principles of Microeconomics (3) | |
| ECON 121—Principles of Macroeconomics (3) | |
| One course from the following: | 3 |
| CLJ 101—Introduction to the Justice System (3) | |
| POLS 101—Introduction to American Government and Politics (3) | |

Four courses from one of the following tracks:

12

Criminal Justice:

CLJ 110—Rights, Justice, and the Law (3)
CLJ 210—Principles of Criminal Law (3)
CLJ 310—Substantive Criminal Law (3)
CLJ 311—Criminal Procedure (3)

Law in Social Context:

POLS 120—Introduction to Political Theory (3)
CLJ 200—Law in Society (3)
CLJ 220—Criminology (3)
CLJ 423—Violence (3)
CLJ 424—Gender, Crime, and Justice (3)
HIST 251—History of Race Relations in America (3)
HIST 404—Roman Law and the Civil Law Tradition (3)

Public Law:

POLS 258—The Judicial Process (3)
POLS 353—Constitutional Law (3)
POLS 354—The Constitution and Civil Liberties (3)
POLS 356—Constitutional Law: Women, Gender, and Privacy (3)

Total Hours—Law and Society Minor 18

Courses in the student's major may not be counted toward the Law and Society minor. One class not included in the minor may be substituted for any course within a track with the consent of the Law and Society faculty advisor.

Distinction

Departmental Distinction. A candidate must have a 3.50/4.00 cumulative GPA in all criminology, law, and justice courses and a 3.25/4.00 cumulative GPA in all UIC courses.

High Distinction. A candidate must have a 3.50/4.00 cumulative GPA in all criminology, law, and justice courses, a 3.25/4.00 cumulative GPA in all UIC courses, and complete a paper written for CLJ 399—Independent Study, which will be reviewed by a faculty advisor and the Departmental Undergraduate Committee. Qualified students should contact the departmental undergraduate director two terms in advance of graduation.

DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES

2440 Science and Engineering South (SES)
(312) 996-3154

<http://www.uic.edu/depts/geos>

Administration: Head, Neil C. Sturchio
Director of Undergraduate Studies, Roy E. Plotnick

The earth and environmental sciences examine the processes that affect the earth's surface and its interior, the history of these processes, and the materials that they produce. They view the earth as a dynamic body, with continual interchanges of materials and energy among the planet's interior and exterior, atmosphere, oceans, and life. Understanding of these processes is essential for evaluating the global environment, its natural variability and history, and its interactions with human activities.

A degree in earth and environmental sciences may lead to employment in industry, in the public sector, or in education. Many earth scientists establish careers in areas that are environmentally related, which may include the prevention, control, and remediation of pollutants from water and soil. Others work at predicting and preventing problems associated with natural hazards such as earthquakes, landslides, floods, and volcanic eruptions. Employment possibilities also exist in the exploration, utilization, and management of resources such as oil, coal, metals, or water.

UIC

Criminology, Law, and Justice
Earth and Environmental Sciences

College of Liberal Arts and Sciences

201

BS with a Major in Earth and Environmental Sciences

Students majoring in Earth and Environmental Sciences choose a concentration in Earth Sciences or Environmental Earth Sciences.

Degree Requirements—Both Concentrations

Core Courses

| Courses | Hours |
|--|-----------|
| EAES 101—Exploring the Earth's Surface ^a | 5 |
| EAES 102—Exploring the Earth's Interior ^a | 5 |
| EAES 220—Mineralogy | 4 |
| EAES 390—Current Topics in Earth and Environmental Sciences ^b | 2 |
| Total Hours—Core Courses | 16 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b EAES 390 fulfills the Writing-in-the-Discipline requirement.

Degree Requirements—Earth Sciences Concentration

To earn a Bachelor of Science in Liberal Arts and Sciences degree from UIC, students need to complete University, college, and department degree requirements. The Department of Earth and Environmental Sciences degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BS with a Major in Earth and Environmental Sciences

| Degree Requirements— Earth Sciences Concentration | Hours |
|--|------------|
| Required Prerequisite and Collateral Courses | 28–30 |
| Core Courses | 16 |
| Concentration Requirements | 22 |
| General Education and Electives to reach Minimum Total Hours | 52–54 |
| Minimum Total Hours—BS with a Major in Earth and Environmental Sciences— Earth Sciences Concentration | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisors to determine which courses are counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses— Earth Sciences Concentration

| Courses | Hours |
|--|--------------|
| One of the following sequences in general physics: | 8–10 |
| PHYS 105—Introductory Physics I—Lecture (4) ^{ab} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{ab} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{ab} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{ab} | |
| OR | |
| PHYS 141—General Physics I (Mechanics) (4) ^a | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^a | |
| CHEM 112—General College Chemistry I ^a | 5 |
| CHEM 114—General College Chemistry II ^a | 5 |
| MATH 180—Calculus I ^{ac} | 5 |
| MATH 181—Calculus II ^a | 5 |
| Total Hours—Required Prerequisite and Collateral Courses | 28–30 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

^c MATH 180 fulfills the LAS Quantitative Reasoning requirement.

Core Courses

See *Core Courses* under heading *Degree Requirements—Both Concentrations*.

Earth Sciences Concentration Requirements

| Courses | Hours |
|---|-----------|
| Twelve hours from the following: | 12 |
| EAES 310—Introduction to Geochemistry (4) | |
| EAES 330—Introduction to Petrology (4) | |
| EAES 350—Principles of Sedimentology and Stratigraphy (4) | |
| EAES 360—Introduction to Paleontology (4) | |
| EAES 400—Field Experience in Earth Sciences | 6 |
| EAES 440—Structural Geology and Tectonics | 4 |
| Total Hours—Concentration Requirements | 22 |

Degree Requirements—Environmental Earth Sciences Concentration

To earn a Bachelor of Science in Liberal Arts and Sciences degree from UIC, students need to complete University, college, and department degree requirements. The Department of Earth and Environmental Sciences degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BS with a Major in Earth and Environmental

| Sciences Degree Requirements— Environmental Earth Sciences Concentration | Hours |
|--|------------|
| Required Prerequisite and Collateral Courses | 29–31 |
| Core Courses | 16 |
| Concentration Requirements | 22 |
| General Education and Electives to reach Minimum Total Hours | 51–53 |
| Minimum Total Hours—BS with a Major in Earth and Environmental Sciences— Environmental Earth Sciences Concentration | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisors to determine which courses are counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses— Environmental Earth Sciences Concentration

| Courses | Hours |
|---|--------------|
| One of the following options in general physics: | 4–5 |
| PHYS 105—Introductory Physics I—Lecture (4) ^{ab} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{ab} | |
| OR | |
| PHYS 141—General Physics I (Mechanics) (4) ^a | |
| CHEM 112—General College Chemistry I ^a | 5 |
| One of the following courses: | 5 |
| CHEM 114—General College Chemistry II (5) ^a | |
| CHEM 130—Survey of Organic and Biochemistry (5) ^a | |
| MATH 180—Calculus I ^{ac} | 5 |
| MATH 181—Calculus II ^a | 5 |
| Two courses in the area of environmental studies, chosen in consultation with the department undergraduate advisor | 5–6 |
| Total Hours—Required Prerequisite and Collateral Courses | 29–31 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b PHYS 105/PHYS 106 will be considered one course in meeting the LAS General Education requirements.

^c MATH 180 fulfills the LAS Quantitative Reasoning requirement.

Core Courses

See *Core Courses* under heading *Degree Requirements—Both Concentrations*.

Environmental Earth Sciences Concentration Requirements

| Courses | Hours |
|--|-----------|
| EAES 200—Field Work in Missouri ^a | 2 |
| EAES 285—Environmental Geology | 4 |
| EAES 310—Introduction to Geochemistry | 4 |
| EAES 475—Hydrology/Hydrogeology | 4 |
| Eight hours from the following: | 8 |
| EAES 350—Principles of Sedimentology and Stratigraphy (4) | |
| EAES 440—Structural Geology and Tectonics (4) | |
| EAES 470—Surficial Processes (4) | |
| EAES 480—Statistical Methods in Earth and Environmental Sciences (4) | |
| Total Hours—Concentration Requirements | 22 |

^a This course is approved for the Analyzing the Natural World General Education category.

Recommended Plan of Study

To view a recommended plan of study for the BS with a Major in Earth and Environmental Sciences, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Earth and Environmental Sciences

Students from other disciplines who want to minor in Earth and Environmental Sciences must take 18 semester hours, chosen with the approval of the department. A maximum of 10 hours may be at the 100-level. EAES 200—Field Work in Missouri is required. Students must take at least 9 hours at the 200-level or above.

Distinction

To be recommended for graduation with Departmental Distinction, a student must have a GPA in mathematics and science courses of 3.20/4.00 or better, 3.50/4.00 or better for High Distinction, and 3.70/4.00 or better for Highest Distinction as well as superior performance in EAES 396—Independent Research.

DEPARTMENT OF ECONOMICS

725 University Hall (UH)

(312) 996-2683

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<http://www.uic.edu/depts/econ/>

Director of Undergraduate Studies, Evelyn Lehrer,

elehrer@uic.edu

The Department of Economics offers a Bachelor of Arts degree with a major in Economics. The program provides instruction on economic institutions and a rigorous foundation in the analytical tools and applied areas of economics, relying on mathematical and statistical techniques. Students learn how the price system operates; how consumers, firms, and government institutions allocate scarce resources; and the determinants of national output, inflation, unemployment, economic growth, and international trade. Laws, regulations, and institutions that influence economic activity are also studied. After learning the basic tools of microeconomics and macroeconomics in the intro-

ductory courses, students go on to study various applied areas of economics in the more advanced courses.

The program provides a strong grounding for many careers in banking, insurance, service and manufacturing firms, labor unions, business associations, government agencies, and not-for-profit organizations. It also gives an excellent background to students who intend to continue their education. In particular, it provides a solid preparation for law school, an MBA program, and graduate studies in economics, business, public administration, and public policy.

In cooperation with the Department of Spanish, French, Italian, and Portuguese, the Department of Economics also offers instruction leading to the Bachelor of Arts in Spanish-Economics degree. See the appropriate section under the *Department of Spanish, French, Italian and Portuguese* for information regarding this program.

Students are encouraged to contact the director of undergraduate studies of the economics department for further information on the field of economics and career options for economics majors.

BA with a Major in Economics

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Economics degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Economics Degree Requirements | Hours |
|---|------------|
| Required Prerequisite and Collateral Course | 5 |
| Major Requirements | 37 |
| General Education and Electives to reach Minimum Total Hours | 78 |
| Minimum Total Hours—BA with a Major in Economics | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Required Prerequisite and Collateral Course

| Course | Hours |
|--|----------|
| MATH 160—Finite Mathematics for Business ^{ab} | 5 |
| Total Hours—Required Prerequisite and Collateral Course | 5 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 160 fulfills the LAS Quantitative Reasoning Requirement.

Students are encouraged to complete MATH 160 as early as possible since many sophomore and junior courses require knowledge of the content of this course.

Students who plan to go on to graduate school in a program that emphasizes quantitative skills are strongly encouraged to take MATH 180 and 181 and, if possible, MATH 210 and 310 also. MATH 180 may be taken in place of the required ECON 345. Students planning to take MATH 180 may be required to take a trigonometry course as a prerequisite depending on their performance on the placement test.

Major Requirements

| Courses | Hours |
|---|-------|
| ECON 120—Principles of Microeconomics ^{ab} | 3 |
| ECON 121—Principles of Macroeconomics ^{ab} | 3 |

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| | |
|--|-----------|
| ECON 220—Microeconomics: Theory and Business Applications ^c | 3 |
| ECON 221—Macroeconomics in the World Economy: Theory and Applications | 3 |
| ECON 270—Statistics for Economics | 4 |
| ECON 345—Introduction to Mathematical Microeconomics | 3 |
| ECON 346—Econometrics | 3 |
| ECON 395—Research and Writing in Economics ^d | 0 |
| Five additional economics courses at the 300- or 400-level, excluding ECON 441 and 442. | 15 |
| Total Hours—Major Requirements | 37 |

^a This course is approved for the Understanding the Individual and Society General Education category.

^b This course is approved for the Understanding U.S. Society General Education category.

^c Students may substitute ECON 218 (4 hours) for ECON 220.

^d ECON 395 fulfills the Writing-in-the-Discipline requirement.

Course Suggestions for Economics Careers

Students may choose any 300- or 400-level courses for the 15 hours in advanced economics requirement. The following groups of courses are offered as guidance to students who may have an interest in one of the career/educational paths shown below.

Business/Financial Economics Courses

| |
|---|
| ECON 322—Managerial Economics |
| ECON 323—Business Conditions Analysis |
| ECON 329—Industrial Organization |
| ECON 333—International Economics |
| ECON 339—Monetary Theory |
| ECON 365—Economics of Risk and Insurance |
| ECON 450—Business Forecasting Using Time-Series Methods |

Human Resources Courses

| |
|---------------------------------|
| ECON 331—Labor Economics |
| ECON 334—Economic Development |
| ECON 351—Economics of Education |
| ECON 353—Economic Demography |
| ECON 354—Health Economics |

Urban Economics/Real Estate Courses

| |
|--|
| ECON 331—Labor Economics |
| ECON 332—Urban Economics |
| ECON 342—Regional Economics |
| ECON 371—Introduction to Urban Real Estate |
| ECON 370—Environmental Economics |
| ECON 472—Real Estate Finance |
| ECON 475—Real Estate Markets and Valuation |

International Studies Courses

| |
|---------------------------------------|
| ECON 323—Business Conditions Analysis |
| ECON 333—International Economics |
| ECON 334—Economic Development |
| ECON 339—Monetary Theory |
| ECON 353—Economic Demography |

Pre-Graduate School in Economics/Business/ Public Policy/Public Administration Courses

| |
|--|
| ECON 324—Economic History of the United States |
| ECON 326—History of Economic Thought |
| ECON 328—Public Finance |
| ECON 329—Industrial Organization |
| ECON 331—Labor Economics |
| ECON 332—Urban Economics |
| ECON 333—International Economics |
| ECON 334—Economic Development |
| ECON 436—Mathematical Economics |

Pre-Law Courses

| |
|--|
| ECON 320—Law and Economics |
| ECON 324—Economic History of the United States |
| ECON 328—Public Finance |
| ECON 329—Industrial Organization |
| ECON 330—Government and Business |
| ECON 331—Labor Economics |
| ECON 354—Health Economics |
| ECON 365—Economics of Risk and Insurance |

Recommended Plan of Study

To view a recommended plan of study for the major in Economics, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Economics

Students who wish to minor in Economics must complete 18 semester hours as outlined below:

| Required Courses—Economics Minor | Hours |
|--|-----------|
| ECON 120—Principles of Microeconomics | 3 |
| ECON 121—Principles of Macroeconomics | 3 |
| ECON 220—Microeconomics: Theory and Business Applications ^a | 3 |
| ECON 221—Macroeconomics in the World Economy: Theory and Applications | 3 |
| Two economics courses at the 300- or 400-level | 6 |
| Total Hours—Economics Minor | 18 |

^a Students may substitute ECON 218 (4 hours) for ECON 220.

Minor in Human Capital and Labor Markets

The College of Liberal Arts and Sciences offers a Minor in Human Capital and Labor Markets. The minor is an option for undergraduate students who wish to complement their major field of study with knowledge on various aspects of human resources, including investments in education and health, work in the labor market, and economic demography. The minor requires 18 hours as distributed below:

| Required Courses—Human Capital and Labor Markets Minor | Hours |
|---|-------|
| ECON 120—Principles of Microeconomics | 3 |
| ECON 220—Microeconomics: Theory and Practice ^a | 3 |
| ECON 331—Labor Economics | 3 |

Three courses selected from the following: 9

| |
|---|
| ECON 351—Economics of Education (3) |
| ECON 353—Economic Demography (3) |
| ECON 354—Health Economics (3) |
| ANTH 214—Sex and Gender in World Cultures (3) |
| PSCH 210—Theories of Personality (3) |

SOC 224—Gender and Society (3)
 SOC 225—Racial and Ethnic Groups (3)
 SOC 244—Sociology of Work (3)

Total Hours—Human Capital and Labor Markets Minor 18

Note: Students may use courses to fulfill the requirements in both their major and this minor, but the credit hours may only be used in one or the other. For example, a student majoring in Sociology may use SOC 224 for this minor, but would need to take an extra 3-hour 200-level Sociology course towards the Sociology major. Please note that students choosing to take PSCH 210, SOC 224, SOC 225, or SOC 244 must take the corresponding pre-requisite course(s).

^a Students may substitute ECON 218 (4 hours) for ECON 220.

Distinction

Departmental Distinction may be awarded if the student meets the following criteria:

Distinction: 3.25/4.00 overall GPA and 3.25/4.00 economics GPA

High Distinction: 3.50/4.00 overall GPA and 3.50/4.00 economics GPA

Highest Distinction: 3.75/4.00 overall GPA and 3.75/4.00 economics GPA, and completion of an honors thesis via registration for one or two sections of ECON 399—Independent Study in Economics under the supervision of a faculty advisor (a minimum of 3 hours and a maximum of 6 hours).

DEPARTMENT OF ENGLISH

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Administration: Head, Mark Canuel

Director of Undergraduate Studies, Mark Chiang,
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The Department of English offers a Major in English and Minor in English, and a Major in Teacher Education and Minor in Teacher Education.

The field of English focuses on the study and practice of various forms of writing in English. It includes:

1. the study of written works in English—whether by writers from the United States, Britain, former colonies, the Commonwealth nations, or elsewhere—whose aesthetic achievement and cultural significance qualifies them as literature;
2. the study of literary criticism and theory, of the relationship between literature and popular culture, and of allied narrative forms such as film, performance, electronic communications, and other new media;
3. the study of the English language, its historical development, and its rhetorical dimensions;
4. the theory and practice of writing, whether of poetry, fiction, nonfiction prose, or other expository forms;
5. the theory and practice of teaching English language and literature, particularly at the secondary level.

Students who major in English develop broad reading and writing skills that make possible both an analytical engagement with, and a critical understanding of, diverse fields of cultural and aesthetic production. The English major offers excellent preparation for careers in writing, editing, publishing, teaching, government, law, and advertising.

BA with a Major in English

Degree Requirements—Major in English

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of English degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies. Students are encouraged to seek advising each semester in both LAS and the English department.

| BA with a Major in English Degree Requirements | Hours |
|---|------------|
| Core Requirements | 12 |
| Selected Concentration Requirements | 9 |
| English Electives | 15 |
| General Education and Electives to reach Minimum Total Hours | 84 |
| Minimum Total Hours—BA with a Major in English | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Core Requirements

All English majors must complete the following courses with a grade of C or better.

| Courses | Hours |
|---|-----------|
| ENGL 240—Introduction to Literary Study and Critical Methods ^a | 3 |
| ENGL 241—English Literature I: Beginnings to 1660 | 3 |
| ENGL 242—English Literature II: 1660–1900 | 3 |
| ENGL 243—American Literature: Beginnings to 1900 | 3 |
| Total Hours—Core Requirements | 12 |

^a English 240 fulfills the *Writing-in-the-Discipline* requirement.

Upper-Level Courses

Students must take at least two courses at the 300-level or above.

Courses from Other Departments

Students may count one course from another department toward the English major. Upper-level courses in other departments may require prerequisites. For approved courses, see those listed in the concentrations.

Selected Concentration Requirements

Within the English major, students must select and complete one of the following concentrations. A concentration consists of three courses, no more than one of which may be taken at the 100-level and one of which must be taken at the 400-level.

Below are the courses that qualify for each concentration. Note that for the writing concentration, the required course sequence has been specified. Any course not listed under a concentration may only count as an elective. In certain cases, students may petition the Office of Undergraduate Studies to have courses counted toward a concentration or toward one other than those indicated below. For more information, see the catalog Course Descriptions or the departmental Web site <http://www.uic.edu/depts/engl>.

| Courses | Hours |
|---------|-------|
|---------|-------|

Three courses from one of the following concentrations:^a

9

British and Anglophone Literature:

ENGL 103, 104, 105, 106, 107, 108, 114, 260, 303, 304, 305, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 333, 351, 358, 403, 405, 408, 413, 416, 417, 419, 421, 422 (Courses from other departments that count toward this concentration: CL 208, 250, 251, 252, 253; FR 191; GER 122, 123, 316, 422, 438; POL 241, 321; RUSS 241, 242, 321, 322)

American Literature:

ENGL 103, 104, 105, 106, 109, 112, 113, 118, 119, 123, 125, 260, 261, 262, 265, 295, 303, 304, 305, 321, 323, 324, 325, 326, 327, 328, 351, 359, 426, 427, 441, 470, 471, 473 (Courses from other departments that count toward this concentration: FR 191; LALS 192, 295, 427; SPAN 224, 226)

Media, Rhetorical, and Cultural Studies:

ENGL 102, 110, 111, 115, 117, 120, 121, 122, 125, 200, 202, 232, 233, 234, 262, 265, 302, 341, 342, 343, 351, 361, 362, 363, 364, 370, 372, 374, 375, 400, 401, 402, 403, 428, 429, 438, 440, 443, 444, 445, 446, 448, 469, 472, 474, 478, 483, 484, 485 (Courses from other departments that count toward this concentration: FR 196, 198, 413, 440; GER 125, 217, 240, 316, 318, 437, 480; PHIL 220, 221, 223, 224, 225, 232, 241, 420, 421, 423, 424, 425; LALS 275, 278, 350; SPAN 225)

Creative Writing (Fiction, Poetry, or Nonfiction):

Fiction: ENGL 212, 491

Poetry: ENGL 210, 490

Nonfiction: ENGL 201, 492

Total Hours—Selected Concentration Requirements

9

^a Students should consult the General Education section of the catalog to determine if any of the courses on these lists are approved for General Education.

English Electives

| Courses | Hours |
|---------|-------|
|---------|-------|

Five additional courses, no more than one of which may be at the 100-level

15

Total Hours—English Electives

15

Distribution Requirements

In addition to the Core requirements, all English majors must take the following, distributed across their concentration and electives:

- One course in materials before 1900
- One course in materials after 1900
- One course in U.S. Social and Cultural Diversity

Courses Within Each Distribution*

Materials before 1900:

ENGL 107, 118, 297, 311, 312, 313, 314, 315, 316, 317, 321, 323, 324, 403, 405, 408, 413, 416, 417, 419, 421, 426, 478 (Courses from other departments that fulfill this requirement: CL 208, 250, 251, 252, 253; GER 240, 316, 422, 437, 438, 480; PHIL 220, 221, 223, 224, 232, 241, 243, 420, 421; POL 241, 321; RUSS 241, 242, 321; SPAN 226)

Materials after 1900:

ENGL 102, 114, 119, 120, 121, 202, 232, 233, 234, 260, 265, 302, 318, 319, 320, 325, 326, 327, 333, 351, 358, 422, 427, 428, 472 (Courses from other departments that fulfill this requirement: FR 191, 196, 198, 413, 440; GER 122, 123, 125, 217, 318; LALS 192, 270, 275, 278, 295, 350, 427; PHIL 232; RUSS 322; SPAN 224, 225)

U.S. Social and Cultural Diversity:

ENGL 110, 111, 112, 113, 114, 117, 118, 119, 123, 125, 260, 261, 262, 265, 295, 328, 333, 341, 342, 343, 351, 358, 359, 361, 362, 363, 364, 422, 428, 429, 440, 441, 443, 444, 445, 469, 470, 471,

472, 473, 474 (Courses from other departments that fulfill this requirement: GER 123; LALS 192, 278, 295, 350, 427; PHIL 232; SPAN 224)

Courses may be used to satisfy more than one distribution requirement.

* Students should consult the General Education section of the catalog to determine if any of the courses on these lists are approved for General Education.

Recommended Plan of Study

To view a recommended plan of study for the major in English, please visit the LAS Web site at <http://www.uic.edu/las/college/info/fygp>.

Minor in English

Students from other disciplines who want to minor in English must complete 18 semester hours as follows:

| Required Courses—English Minor | Hours |
|--------------------------------|-------|
|--------------------------------|-------|

Students must complete the following courses with a grade of C or better.

| | |
|--|---|
| ENGL 240—Introduction to Literary Study and Critical Methods | 3 |
|--|---|

| | |
|--|---|
| ENGL 243—American Literature: Beginnings to 1900 | 3 |
|--|---|

| | |
|-------------------------------|---|
| One of the following courses: | 3 |
|-------------------------------|---|

ENGL 241—English Literature I: Beginnings to 1660 (3)

ENGL 242—English Literature II: 1660–1900 (3)

| | |
|---|---|
| One course in U.S. Social and Cultural Diversity (see list above) | 3 |
|---|---|

Two additional courses in English, one of which may be at the 100-level

6

Total Hours—English Minor

18

Writing Internship Program

In conjunction with the LAS-COOP, the English department offers writing internships in fields, such as journalism, public relations, advertising, publishing, corporate communications, technical writing, information technology, and broadcasting. Students benefit by acquiring hands-on experience and professional writing samples for use in job applications.

To qualify, students must be enrolled full-time at UIC, have taken English 202 and 240, and be in good academic standing. Students who wish to receive credit for their writing internship must be admitted to and enroll in ENGL 493—Internship in Nonfiction Writing.

BA in the Teaching of English

Degree Requirements—Teaching of English

To earn a Bachelor of Arts in the Teaching of English degree from UIC, students must complete University, college, and department degree requirements. The Department of English degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA in the Teaching of English Degree Requirements | Hours |
|---|-------|
|---|-------|

| | |
|-------------------|----|
| Core Requirements | 12 |
|-------------------|----|

| | |
|-------------------|---|
| English Electives | 9 |
|-------------------|---|

| | |
|--------------------------|----|
| Required Methods Courses | 12 |
|--------------------------|----|

| | |
|--------------------|----|
| Collateral Courses | 12 |
|--------------------|----|

| | |
|---|----|
| Additional Requirements for Teacher Certification | 13 |
|---|----|

| | |
|--|----|
| General Education and Electives to reach the Minimum Total Hours | 62 |
|--|----|

| | |
|--|------------|
| Minimum Total Hours—BA in the Teaching of English | 120 |
|--|------------|

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Core Requirements

| Courses | Hours |
|---|-----------|
| ENGL 240—Introduction to Literary Study and Critical Methods ^a | 3 |
| ENGL 241—English Literature I: Beginnings to 1660 | 3 |
| ENGL 242—English Literature II: 1660–1900 | 3 |
| ENGL 243—American Literature: Beginnings to 1900 | 3 |
| Total Hours—Core Courses | 12 |

^a ENGL 240 fulfills the *Writing-in-the-Discipline* requirement

English Electives

| Courses | Hours |
|--|----------|
| Three courses at the 200-level or above to be chosen in consultation with the English advisor. | 9 |
| Total Hours—English Electives | 9 |

Required Methods Courses

| Recommended to be taken in consecutive semesters. | |
|--|-----------|
| Courses | Hours |
| ENGL 459—Introduction to the Teaching of English in Middle and Secondary Schools | 3 |
| ENGL 486—The Teaching of Writing in Middle and Secondary Schools | 3 |
| ENGL 489—Teaching of Reading and Literature in Middle and Secondary Schools | 3 |
| ENGL 481—Methods of Teaching English in Middle and Secondary Schools | 3 |
| Total Hours—Required Methods Courses | 12 |

Collateral Courses

| Courses | Hours |
|---|-----------|
| ENGL 498—Educational Practice with Seminar I | 6 |
| ENGL 499—Educational Practice with Seminar II | 6 |
| Total Hours—Collateral Courses | 12 |

Additional Requirements for Teacher Certification

| Courses | Hours |
|--|-----------|
| ED 200—Education Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | 4 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| Total Hours—Additional Requirements for Teacher Certification | 13 |

To be recommended for student teaching, ENGL 498 and 499—Educational Practice with Seminar I and II, a student must complete all program course requirements (general requirements for the major, the Core courses, Methods courses, and courses in Professional Education) with a minimum grade point average of 3.00/4.00 in English courses taken at UIC. Students intending to complete student teaching must obtain the provisional approval of the director of English education in the academic year preceding the academic year in which student teaching is to be done.

In addition to specified course work in the major field, the teacher education student must fulfill certain other requirements as well as maintain a minimum major GPA of 3.00/4.00, a cumulative GPA of 2.50/4.00, and a minimum GPA of 3.00/4.00 in education courses. For detailed information, see the *Program Guide for Teacher Education in English*, available from the secondary education coordinator in the Department of English.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basics Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For information on application procedures, contact the Council on Teacher Education located in EPASW 3015. See *College of Education: Council on Teacher Education and Secondary Education Program* in the *College of Education* section of the catalog.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Arts in the Teaching of English, please visit the LAS Web site at <http://www.uic.edu/las/college/info/fygp>.

Minor in the Teaching of English

Secondary education majors from other disciplines who want to minor in the Teaching of English must complete 18 hours in the English minor curriculum listed.

This minor is open only to students obtaining full certification in an approved UIC Teacher Education major. To teach English as a second subject in Illinois public schools, one must apply for and receive an Endorsement from the State Board of Education and meet all of the additional course and other requirements the Board has established.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application with the State of Illinois and take an examination administered by the State Board of Education. For information on application procedures, contact the Council on Teacher Education in the College of Education.

Distinction

Departmental Distinction. To be eligible for Departmental Distinction, a candidate must have:

1. attended UIC for three semesters,
2. a cumulative GPA of 3.00/4.00,
3. completed a minimum of 21 hours at UIC in courses required for the major, and
4. a GPA of 3.50/4.00 in courses required for the major.

High Distinction. To be eligible for High Distinction, a candidate must complete all requirements for Departmental Distinction with a GPA of 3.75/4.00 in courses required for the major.

Highest Distinction. To be eligible for Highest Distinction, a candidate must meet all requirements for High Distinction and complete ENGL 398—English Honors Thesis with a grade of A.

DEPARTMENT OF GENDER AND WOMEN'S STUDIES

1208 University Hall (UH)

(312) 996-2441

gjames@uic.edu

<http://www.uic.edu/depts/wsweb/WSweb.html>

Administration: Director, Barbara Ransby

Director of Undergraduate Studies, Jennifer Brier

Gender and Women's Studies is an interdisciplinary field of study that explores issues related to the history and status of women, the broad range of social roles filled by women and men across human cultures, and the place of sexuality in society and culture. The program starts from the assumption that "gender matters" and then explores how and why it has mattered in the past and the present, and how it intersects with issues of race, class, and sexual orientation. In a world where women's and men's roles have been changing rapidly, studying the impact of gender both on everyday experience and society's institutions will help students make more informed choices about their own lives. Through a sustained commitment to scholarship that engages communities and institutions beyond the campus, faculty equip students to meet the challenges of contemporary society.

As with other liberal arts and sciences programs, Gender and Women's Studies pays special attention to developing the ability of students to think critically, to evaluate evidence, to construct logical arguments, to engage in moral reasoning, and to write well. Graduates of Gender and Women's Studies programs have found employment in such diverse fields as social services, criminal justice, publishing, teaching, educational administration, health services, and public policy advocacy. A major in Gender and Women's Studies is a good basis from which to apply to graduate school as well as to professional schools like law and journalism.

BA with a Major in Gender and Women's Studies

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Gender and Women's Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Gender and Women's Studies Degree Requirements | Hours |
|--|------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in Gender and Women's Studies | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| GWS 101—Gender in Everyday Life ^{ab} | 3 |
| GWS 102—Global Perspectives on Women and Gender ^{ac} | 3 |
| GWS 292—History and Theories of Feminism ^d | 3 |
| GWS 390—Feminism and Social Change | 3 |

One course each from three of the following four categories:^e

9

Culture and Representation

GWS 111, 117, 120, 192, 204, 211, 244, 261, 272, 275, 276, 304, 311, 361, 363, 406, 413, 428, 439, 462, 469, or 472.

Science, Health, and the Body

GWS 214, 238, 262, 312, 315, 419, 441, 450, or 462.

Feminism, Social Policy, and the State

GWS 110, 202, 224, 232, 259, 262, 275, 276, 356, 406, 412, 424, 425, 428, 462, 478, 484, or 485.

Sexuality and Society

GWS 117, 203, 204, 211, 224, 232, 252, 272, 290, 304, 311, 362, 363, 403, 419, 462, 484, or 490.

Four additional GWS courses 12

Total Hours—Major Requirements 33

^a This course is approved for the Understanding the Individual and Society General Education category.

^b This course is approved for the Understanding U.S. Society General Education category.

^c This course is approved for the Exploring World Cultures General Education category.

^d GWS 292 fulfills the Writing-in-the-Discipline requirement.

^e Students should consult the General Education section of the catalog to determine if any of the courses on these lists are approved General Education courses.

Of the 33 hours required for the major, no more than 9 hours can be at the 100-level and at least 6 hours must be at the 400-level. The same course cannot count toward more than one category requirement for the major. No more than 3 hours of GWS 396 may be applied to the major.

Recommended Plan of Study

To view a recommended plan of study for the major in Gender and Women's Studies, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Gender and Women's Studies

Gender and Women's Studies provides undergraduates with an interdisciplinary understanding of the history and representation of gender constructions and sexual identities, their intersections with other social categories such as race and class, and the economic and political implications of gender and sexual differences both in the U.S. and across the globe. Academic inquiry into the changing roles of women and men, gays, lesbians, bisexuals, and transgendered people allows students to understand themselves and their relationships with others and helps them make informed choices about their own lives. Further, a Minor in Gender and Women's Studies provides valuable background for students who plan to pursue careers dealing with issues of gender and sexuality.

Requirements for the Minor

Students from other disciplines who wish to minor in Gender and Women's Studies must complete 18 semester hours distributed as follows.

| Required Courses—Gender and Women's Studies Minor | Hours |
|--|-----------|
| GWS 101—Gender in Everyday Life | 3 |
| GWS 102—Global Perspectives on Women and Gender | 3 |
| GWS 292—History and Theory of Feminism ^a | 3 |
| GWS 390—Feminism and Social Change | 3 |
| Two additional courses in GWS at the 200-level or above ^b | 6 |
| Total Hours—Gender and Women's Studies Minor | 18 |

^a GWS 292 is a Writing-in-the-Discipline course.

^b No more than 3 hours of GWS 396—Independent Study/Research may be applied to the minor.

DEPARTMENT OF GERMANIC STUDIES

1524 University Hall (UH)
(312) 996-3205

<http://www.german.uic.edu>

Administration: Head, Astrida Orle Tantillo
Director of Undergraduate Studies, David Weible,
weible@uic.edu

Academic Advisors: David Weible, German with Business
Minor; Susanne Rott, Teaching of German

The Department of Germanic Studies offers courses at the elementary, intermediate, and advanced levels. The undergraduate program provides the opportunity to develop skills in understanding, speaking, reading, and writing German and to learn about the language, literature, and culture of the German-speaking regions of the world. Courses in Yiddish language, literature, and culture are also offered.

Students who major or minor in Germanic Studies may use their training in a variety of occupations, including teaching, translation, international marketing, banking and commerce, diplomatic service, and journalism.

BA with a Major in Germanic Studies

Majors in Germanic Studies must complete either the Germanic Studies Concentration or the German with a Business Minor Concentration.

Degree Requirements—Germanic Studies—Concentration I

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Germanic Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Germanic Studies— Germanic Studies Degree Requirements | Hours |
|--|------------|
| Concentration I Requirements | 31 |
| General Education and Electives to reach Minimum Total Hours | 89 |
| Minimum Total Hours—BA with a Major in Germanic Studies | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Concentration I Requirements—Germanic Studies

| Courses | Hours |
|--|-----------|
| GER 211—Advanced German I | 3 |
| GER 300—Writing in the Study of German ^a | 1 |
| Six hours of designated language courses (l) ^b | 6 |
| Twelve hours of designated literature/culture courses (l/c) ^b | 12 |
| Nine hours of additional Germanic studies courses. | |
| Program must be approved by major advisor. | 9 |
| Total Hours—Concentration I Requirements— Germanic Studies | 31 |

^a GER 300 fulfills the *Writing-in-the-Discipline* requirement.

^b For area designations, see individual course listings.

Courses for the major must be at the 200-level or higher.

Recommended Plan of Study

To view a recommended plan of study for the Concentration in Germanic Studies, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Degree Requirements—German with Business Minor—Concentration II

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Germanic Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

Concentration II must be chosen to qualify for the Business Minor. Declaration of the major must be approved by the program director.

| BA with a Major in Germanic Studies with a Business Minor Degree Requirements | Hours |
|--|------------|
| Concentration II Requirements | 31 |
| Required Collateral Courses | 15 |
| General Education and Electives to reach Minimum Total Hours | 74 |
| Minimum Total Hours—BA with a Major in Germanic Studies with a Business Minor | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Concentration II Requirements—German with a Business Minor

| Courses | Hours |
|--|-----------|
| GER 211—Advanced German I | 3 |
| GER 212—Advanced German II | 3 |
| GER 215—Business German | 3 |
| GER 300—Writing in the Study of German ^a | 1 |
| GER 310—Practice in German Language Skills | 3 |
| GER 311—Contemporary Germanic Culture and Society | 3 |
| GER 315—Advanced Business German | 3 |
| One of the following courses: | 3 |
| GER 401—Advanced Practice in German Language Skills (3) | |
| GER 408—Introduction to Translation Theory (3) | |
| GER 450—Business Operations in German-Speaking Countries | 3 |
| Six hours of Germanic studies courses, GER 492 and 493 are recommended | 6 |
| Total Hours—Concentration II Requirements— German with a Business Minor | 31 |

^a GER 300 fulfills the *Writing-in-the-Discipline* requirement.

Courses for the major must be at the 200-level or higher.

Required Collateral Courses

These courses constitute a business minor.

| Courses | Hours |
|--|-----------|
| ACTG 210—Introduction to Financial Accounting | 3 |
| ECON 130—Principles of Economics for Business ^{abc} | 5 |
| IDS 200—Introduction to Management Information Systems | 4 |
| BA 200—Managerial Communication | 3 |
| Total Hours—Required Collateral Courses | 15 |

^a This course is approved for the *Understanding the Individual and Society General Education* category.

^b This course is approved for the *Understanding U.S. Society General Education* category.

^c Students may substitute ECON 130 with ECON 120 and 121.

Recommended Plan of Study

To view a recommended plan of study for the major in German with a Business Minor, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Germanic Studies

Students from other disciplines who want to minor in Germanic Studies must complete 12 semester hours, chosen from any courses at the 200-level or above that count as credit toward the BA with a Major in Germanic Studies. Students must select courses for the minor with approval from a major advisor.

BA in the Teaching of German**Degree Requirements—Teaching of German**

To earn a Bachelor of Arts in the Teaching of German degree from UIC, students must complete University, college, and department degree requirements. The Department of Germanic Studies degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA in the Teaching of German Degree Requirements | Hours |
|---|------------|
| Major Requirements | 34 |
| Additional Requirements for Teacher Certification | 25 |
| General Education and Electives to reach Minimum Total Hours | 61 |
| Minimum Total Hours—BA in the Teaching of German | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| GER 300—Writing in the Study of German ^a | 1 |

Teaching Methodology

| | |
|---|---|
| Two of the following courses: | 6 |
| GER 407—Theoretical and Research Foundations of Communicative Language Teaching (3) | |
| GER/SPAN 448—Foundations of Second Language Teaching (3) | |
| GER/SPAN 449—Teaching Second Language Literacy and Cultural Awareness (3) | |

Language Focus

| | |
|---|---|
| Three of the following courses: | 9 |
| GER 211—Advanced German I (3) | |
| GER 212—Advanced German II (3) | |
| GER 214—German Conversation and Pronunciation (3) | |
| GER 215—Business German (3) | |
| GER 310—Practice in German Language Skills (3) | |
| GER 401—Advanced Practice in German Language Skills (3) | |

Culture Focus

| | |
|---|----|
| Four of the following courses:^b | 12 |
| GER 217—German Cinema (4) | |
| GER 218—Opera in Germanic Cultures: From Mozart to Berg (3) | |
| GER 219—Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture (3) | |
| GER 290—Introduction to Germanic Literature (3) | |
| GER 311—Contemporary Germanic Culture and Society (3) | |
| GER 316—Periods of Germanic Literature and Culture (3) | |
| GER 318—Topics in Germanic Literatures and Cultures (3) | |
| GER 333—Topics in Genres in Germanic Studies (3) | |
| GER 370—Introduction to the Theory and Practice of German Cultural Studies (3) | |
| GER 411—The City as Cultural Focus (3) | |
| GER 420—Germanic Cultural Studies I: Genres (3) | |
| GER 421—Germanic Cultural Studies II: Authors, Movements, Periods (3) | |

| | |
|--|--|
| GER 422—Germanic Cultural Studies III: Themes (3) | |
| GER 437—Contemporary Germanic Literature (3) | |
| GER 438—The Faust Legend (3) | |
| GER 439—Gender and Cultural Production (3) | |
| GER 450—Business Operations in German-Speaking Countries (3) | |

Interdisciplinary Focus^c

| | |
|--|-----------|
| Two of the following courses: | 6 |
| GER 215—Business German (3) | |
| GER 370—Introduction to the Theory and Practice of German Cultural Practices (3) | |
| GER 401—Advanced Practice in German Language Skills (3) | |
| GER 450—Business Operations in German-Speaking Countries (3) | |
| Additional GER courses at the 200-level or above | 0–6 |
| Total Hours—Major Requirements | 34 |

^a GER 300 fulfills the *Writing-in-the-Discipline* requirement.

^b Students should consult the General Education section of the catalog to determine if any of these courses are approved General Education courses.

^c Courses from the interdisciplinary grouping may be applied to the language or culture requirements.

Additional Requirements for Teacher Certification

| Courses | Hours |
|--|-----------|
| ED 200—Educational Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | 4 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| GER 494—Educational Practice with Seminar I | 6 |
| GER 495—Educational Practice with Seminar II | 6 |
| Total Hours—Additional Requirements for Teacher Certification | 25 |

In addition to specified course work in the major field, the teacher education student must fulfill certain other requirements and must maintain a minimum departmental GPA of 3.00/4.00, a cumulative GPA of 2.50/4.00, and a minimum GPA of 3.00/4.00 in education courses. For detailed information, see the *Program Guide for Teacher Education in German*, available from the secondary education coordinator in the Department of Germanic Studies.

Programs must be approved by the major advisor in Germanic Studies. Certification requirements need to be approved by the Certification Officer in the Council on Teacher Education.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basics Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See *Council on Teacher Education and Secondary Education Program* in the *College of Education* section of the catalog.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Arts in the Teaching of German, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in the Teaching of German

Secondary education majors from other disciplines who want to minor in the Teaching of German must complete 12 hours as follows:

| Required Courses—Teaching of German Minor | Hours |
|---|-----------|
| GER 211—Advanced German I | 3 |
| GER 212—Advanced German II | 3 |
| Two additional Germanic studies courses at the 200-level or above | 6 |
| Total Hours—Teaching of German Minor | 12 |

Students are strongly encouraged to take GER 401, 407.

This minor is open only to students obtaining full certification in an approved UIC Teacher Education major. To teach German as a second subject in Illinois public schools one must apply for and receive an Endorsement from the State Board of Education and meet all of the additional course and other requirements the Board has established.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application with the State of Illinois and take an examination administered by the State Board of Education. For information on application procedures, contact the Council on Teacher Education in the College of Education.

Distinction

Students who complete the major with a GPA of 3.60/4.00 in courses applied to the major are recommended for Departmental Distinction. Students who qualify for Distinction and complete GER 398—Honors Project may qualify for High or Highest Distinction.

Foreign Language Requirement

The courses required for completing the foreign language requirement are GER 101, 102, 103, and 104; or GER 106 and 107.

Overseas Program

A portion of the credits toward the majors offered by the Department of Germanic Studies may be earned mainly through the Study Abroad Program conducted either in Berlin, Germany, or in Vienna, Austria. GER 104 level language proficiency or higher is required for the Austria Illinois program in Vienna. Students should apply through the Germanic Studies Department.

DEPARTMENT OF HISTORY

913 University Hall (UH)
(312) 996-3141

<http://www.uic.edu/depts/hist/>

Administration: Chair, James Searing, jsearing@uic.edu
Director of Undergraduate Studies, Richard S. Levy, rslevy@uic.edu

Director of Teaching of History Education, Robert Johnston, johnsto1@uic.edu

History is the study of the human past. It is both a subject matter and a way of thinking—a discipline. No people, time, or place is neglected in the investigation of the human community's historical record. And no method is alien to the historian's quest for understanding. The historian's interests embrace the permanent and changing concerns of our civilization: the individual and society; the emergence of nations; the rise and fall of empires; race and ethnicity; class, gender, and status; war and revolution; science and technology; slavery and emancipation;

dictatorship and democracy; rural life and urbanization; the struggle for empowerment waged by minorities, women, and workers; the life of the mind; religion; and culture. Because every succeeding generation has new questions to ask of the past, history is constantly being rewritten. The discipline of history rests on the discovery, evaluation, and ordering of evidence. It sharpens critical reading and writing skills and gives students practice in the use of these basic tools of modern life. The study of history is excellent preparation for careers in a wide variety of fields, including business, journalism, government, information science, museum administration, and the law.

BA with a Major in History

Degree Requirements—Major in History

To earn a Bachelor of Arts degree in Liberal Arts and Sciences from UIC, students must complete University, college, and department degree requirements. The Department of History degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in History Degree Requirements | Hours |
|---|------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in History | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| 100-level history courses ^a | 3–12 |
| 200-level history courses ^a | 9–15 |
| 300-level history courses, including HIST 300—History Methods Colloquium (3) ^b | 3–6 |
| 400-level history courses | 9 |

Courses above must be distributed across several fields as follows:

African, Asian, Middle Eastern, or Latin

American:

Minimum of 6 hours

European:

Minimum of 6 hours in ancient, medieval, or modern European history

United States:

Minimum of 6 hours in U.S. history

| | |
|---------------------------------------|-----------|
| Total Hours—Major Requirements | 33 |
|---------------------------------------|-----------|

^a Students should consult the General Education section of the catalog for 100- and 200-level history courses approved as General Education courses.

^b HIST 300 fulfills the Writing-in-the-Discipline requirement.

History majors, in consultation with the director of undergraduate studies, shall define a field of concentration consisting of at least 12 semester hours (4 courses) beyond the 100-level.

To complete the History major, students will write a research paper based on primary sources in a 400-level course of their choosing.

Recommended Plan of Study

To view a recommended plan of study for the major in History, please visit the LAS Web site at <http://www.uic.edu/las/college/info/fygp>.

Minor in History

Students from other disciplines who want to minor in history must complete 15 semester hours with at least 9 semester hours at the 200-level or above.

BA in the Teaching of History

Degree Requirements—Teaching of History

To earn a Bachelor of Arts degree in the Teaching of History from UIC, students must complete University, college, and department degree requirements. The Department of History degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA in the Teaching of History Degree Requirements | Hours |
|---|------------|
| Major Requirements | 36 |
| Prerequisite and Collateral Courses | 6 |
| Additional Requirements for Teacher Certification | 28 |
| General Education and Electives to reach Minimum Total Hours | 50 |
| Minimum Total Hours—BA in the Teaching of History | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|-------|
| One of the following courses: | 3 |
| HIST 106—The World since 1400 (3) ^a | |
| HIST 114—Topics in World History (3) ^a | |
| One of the following courses: | 3 |
| HIST 100—Western Civilization to 1648 (3) ^b | |
| HIST 101—Western Civilization since 1648 (3) ^b | |
| One of the following courses: | 3 |
| HIST 103—American Civilization to the Late Nineteenth Century (3) ^c | |
| HIST 104—American Civilization since the Late Nineteenth Century (3) ^c | |
| One of the following courses: | 3 |
| HIST 255—History of Chicago (3) ^c | |
| HIST 257—History of Illinois (3) ^c | |
| Two additional 200-level history courses | 6 |
| HIST 300—History Methods Colloquium ^d | 3 |
| HIST 320—Teaching History and the Related Disciplines | 3 |
| HIST 420—Teaching the Social Sciences ^e | 3 |
| Three additional 400-level history courses | 9 |

The above course work must be distributed across three fields as follows:

African, Asian, Middle Eastern, or Latin

American:

Minimum of 6 hours

European:

Minimum of 6 hours in ancient, medieval, or modern European history

United States:

Minimum of 12 hours in U.S. history

| | |
|---------------------------------------|-----------|
| Total Hours—Major Requirements | 36 |
|---------------------------------------|-----------|

^a HIST 106 and 114 count toward the field of African, Asian, Middle Eastern, and Latin American history. HIST 106 is approved for the following General Education categories: *Understanding the Past*; *Exploring World Cultures*. HIST 114 is approved for the following General Education category: *Understanding the Past*.

^b HIST 100 and 101 count toward the field of European history. HIST 100 is approved for the following General Education category: *Understanding the Past*. HIST 101 is approved for the following General Education categories: *Understanding the Individual and Society*; *Understanding the Past*.

^c HIST 103, 104, 255, and 257 count toward the field of U.S. history. HIST 103, 104, and 255 are approved for the following General Education categories: *Understanding U.S. Society*; *Understanding the Past*.

^d HIST 300 fulfills the *Writing-in-the-Discipline* requirement.

^e HIST 420 has a prerequisite of 9 hours in the social sciences.

Teaching of History majors, in consultation with the program advisor, shall designate one of the fields of history listed above as their field of concentration, consisting of at least 9 semester hours (3 courses) beyond the 100-level in that field.

To complete the Teaching of History major, students will write a research paper based on primary sources in a 400-level course of their choosing.

Majors are required to seek guidance from the program advisor before registering for courses each semester [call (312) 413-9163 for an appointment].

Prerequisite and Collateral Courses

| Courses | Hours |
|--|----------|
| ECON 120—Principles of Microeconomics ^a | 3 |
| ECON 121—Principles of Macroeconomics ^a | 3 |
| Total Hours—Prerequisite and Collateral Courses | 6 |

^a ECON 120 and 121 are approved for the following General Education categories: *Understanding the Individual and Society*; *Understanding U.S. Society*.

Students are encouraged but not required to take ANTH 101, GEOG 100, POLS 101, PSCH 100, and SOC 100.

Additional Requirements for Teacher Certification

| Courses | Hours |
|---|-----------|
| ED 200—Educational Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| CI 414—Middle and High School Literacy | 3 |
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | |
| HIST 475—Educational Practice with Seminar I | 6 |
| HIST 476—Educational Practice with Seminar II | 6 |
| Total Hours—Additional Requirements for Teacher Certification | 28 |

In addition to specified course work in the major field, the teacher education student must fulfill certain other requirements as well as maintain a minimum GPA of 3.00/4.00 in the major, a 3.00/4.00 in required education courses, and a cumulative GPA of 2.50/4.00. For detailed information, see the *Program Guide for Teacher Education in History*, available from the secondary education coordinator in the Department of History.

Successful completion of certification and degree requirements does *not* automatically confer certification. To become certified students must pass the following requirements:

1. a series of examinations required by the Illinois State Board of Education
2. the Content Area Tests (before being allowed to student teach)
3. assessment of Professional Teaching.

Only after these requirements have been met may students apply for certification to the Council on Teacher Education. For more information on application procedures, contact the Council on Teacher Education located in EPASW 3015. See *Council on Teacher Education and Secondary Education Programs* in the *College of Education* section.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Arts in the Teaching of History, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Distinction

The department offers the following two options:

1. Students who earn a 3.50/4.00 cumulative GPA for all UIC courses and a 3.75/4.00 GPA in all courses taken in the Department of History at UIC will be awarded Departmental Distinction.
2. Students who earn a 3.25/4.00 cumulative GPA for all UIC courses and 3.50/4.00 GPA in all courses taken in the Department of History at UIC may choose to complete an honors thesis while enrolled in History 398—Honors Project. To qualify for honors, the student must earn at least a grade of B in History 398.

INTERNATIONAL STUDIES

1102 Behavioral Science Building (BSB)
(312) 996-3105

<http://www.uic.edu/depts/isp>

Administration: Program Coordinator, Norma Claire Moruzzi

Minor in International Studies

The International Studies minor provides a multidisciplinary liberal arts education with a global emphasis. The minor can be structured to concentrate on one of three focal areas: (1) World Markets and Development; (2) Global Cultures and Societies; or (3) International Security and Governance. The minor consists of 21 semester hours of course work that must be international and comparative in overall content.

Requirements for the Minor

Students interested in pursuing the minor in International Studies must select a faculty advisor from members of the LAS International Studies Advisory Committee. Students may use courses to fulfill the requirements in both the major and the minor, but the semester hours may only be used in one or the other.

| Required Courses—International Studies Minor | Hours |
|---|-----------|
| INST 301—Seminar in International Studies | 3 |
| One of the following courses: | 3 |
| INST 106—The World since 1400 (3) | |
| INST 114—Topics in World History (3) | |
| One of the following courses: | 3 |
| INST 130—Introduction to Comparative Politics (3) | |
| INST 184—Introduction to International Relations (3) | |
| Four courses at the 200-, 300-, and 400-levels around one of the areas listed below: | 12 |
| World Markets and Development | |
| Global Cultures and Societies | |
| International Security and Governance | |
| Total Hours—International Studies Minor | 21 |

JEWISH STUDIES PROGRAM

526 University Hall (UH)
(312) 413-2102

jstud@uic.edu

<http://www.uic.edu/las/jstud/>

Administration: Director, Dagmar Lorenz

Academic Advisor: Elizabeth Loentz, loentz@uic.edu

Minor in Jewish Studies

The Jewish Studies program is committed to furthering knowledge and understanding of the fundamental questions and issues of Jewish life and identity in the past and the present. Jewish Studies is an exciting interdisciplinary field of teaching and research ranging from the study of texts, such as the Bible, to the experience of Jews as a people. The program encourages participation by all students at all levels of study. Jewish Studies faculty members are prominent professors drawn from the humanities and the social sciences at UIC. The minor in Jewish Studies offers students the opportunity to design a program of study to fit their individual interests, goals, and knowledge. Whatever the chosen field or areas of inquiry may be, the goals of the Jewish Studies Minor are identical:

- study the experience and/or texts of Jews from Biblical times to the present;
- acquire a deeper understanding of Jewish culture as one strand in contemporary multicultural America;
- develop critical thinking, writing, and discussion skills; and
- gain a reading and speaking knowledge of Jewish languages.

Requirements for the Minor

For the minor, a minimum of 18 semester hours in Jewish Studies, selected from an approved list of courses. Students are encouraged to consult with a minor advisor when selecting courses. Included in the 18 semester hours must be nine semester hours (nonlanguage) at the 100-level, and nine semester hours at or above the 200-level. The study of Jewish languages is strongly encouraged but not required. Upon petition to the faculty committee, other courses can count toward the minor.

| Required Courses—Jewish Studies Minor | Hours |
|--|-----------|
| Three courses from the following: | 9 |
| JST 101—Introduction to Jewish Studies: Literature and Society (3) | |
| JST 102—Introduction to Jewish Studies: Religion and Culture (3) | |
| JST/ENGL/RELS 115—Understanding the Bible as Literature (3) | |
| JST/ENGL 116—Jewish American Literature of the 20th Century (3) | |
| JST/HIST 117—Understanding the Holocaust (3) | |
| JST/GER 122—Minority Perspectives in the Germanic Context (3) | |
| JST/GER 123—Introduction to Yiddish Culture and Literature (3) | |
| JST/CL/RELS 124—Hebrew Bible (3) | |
| JST/PHIL/RELS 141—Philosophy and Revelation: Jewish and Christian Perspectives (3) | |
| Additional courses at the 200-level or above | 9 |
| Total Hours—Jewish Studies Minor | 18 |

Courses Approved for the Minor in Jewish Studies

The following courses are approved to be taken for the Minor in Jewish Studies.

| Courses | Hours |
|-----------------------------------|-------|
| Germanic Studies (GER) | |
| 404—Yiddish for Reading Knowledge | 3 |

Hebrew (HEB)^a

| | |
|----------------------------|---|
| 101—Elementary Hebrew I | 4 |
| 102—Elementary Hebrew II | 4 |
| 103—Intermediate Hebrew I | 4 |
| 104—Intermediate Hebrew II | 4 |

Jewish Studies (JST)

| | |
|---|---|
| 101—Introduction to Jewish Studies: Literature and Society | 3 |
| 102—Introduction to Jewish Studies: Religion and Culture | 3 |
| 115—Understanding the Bible as Literature <i>Same as ENGL 115, RELS 115</i> | 3 |
| 116—Jewish American Literature of the 20th Century <i>Same as ENGL 116</i> | 3 |
| 117—Understanding the Holocaust <i>Same as HIST 117</i> | 3 |
| 122—Minority Perspectives in the Germanic Context <i>Same as GER 122</i> | 3 |
| 123—Introduction to Yiddish Culture and Literature <i>Same as GER 123</i> | 3 |
| 124—Hebrew Bible <i>Same as CL 124, RELS 124</i> | 3 |
| 125—Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature & Film <i>Same as GER 125</i> | 3 |
| 141—Philosophy and Revelation: Jewish and Christian Perspectives <i>Same as PHIL 141, RELS 141</i> | 3 |
| 225—Topics in Muslim-Jewish Relations <i>Same as CL 225, RELS 225</i> | 3 |
| 235—Introduction to Jewish Thought I <i>Same as CL 235, RELS 235</i> | 3 |
| 242—History of Biblical Interpretation <i>Same as CL 242, RELS 242</i> | 3 |
| 243—Politics and Government of the Middle East <i>Same as POLS 243</i> | 3 |
| 254—Prophets in Judaism and Islam <i>Same as CL 254, RELS 254</i> | 3 |
| 294—Topics in Jewish Studies | 3 |
| 311—Gender and Sexuality in Early Christianity and Judaism <i>Same as GWS 311, RELS 311</i> | 3 |
| 394—Topics in Jewish Studies | 3 |
| 478—The Bible as Literature <i>Same as ENGL 478, RELS 478</i> | 3 |
| 494—Topics in Jewish Studies | 3 |

^a Hebrew courses may be applied toward minor requirements only with special approval.

LATIN AMERICAN AND LATINO STUDIES PROGRAM

1527 University Hall (UH)
(312) 996-2445

<http://www.uic.edu/las/latamst/>

Administration: Director, María de los Angeles Torres
Director of Undergraduate Studies, Cristián Roa-de-la-Carrera, roa@uic.edu

The program in Latin American Studies and Latino Studies seeks to provide students with an understanding of the history, cultures, and contemporary issues of Latin Americans and Latinos in the U.S. using interdisciplinary approaches. Courses for the major and minor cover Mexico, the Caribbean, and Central and South America as well as urbanization and social and political processes among Latino groups in Chicago and throughout the

United States. Comparative and diverse developmental perspectives illuminate linkages among the countries and peoples of the Americas. A major or minor in Latin American and Latino Studies can serve as a useful basis for careers in public service, business, professional, or academic life related to Latin America or U.S. Latinos.

Requirements are designed so that students acquire a general background in both Latin American and Latino studies in the lower-division courses. Students have the option to pursue a general curriculum by taking an equal amount of upper-division courses in Latin American and Latino Studies or to pursue an area of specialization in either Latin American or Latino Studies by taking more upper-division courses in one of the two areas. Students may also choose to take courses in a particular disciplinary area of the humanities (history and cultural studies) or the social sciences (anthropology, political science, sociology) or a combination of these areas. Students are strongly encouraged to take at least one course on Mexico.

BA with a Major in Latin American and Latino Studies

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and program degree requirements. The Latin American and Latino Studies Program degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Latin American and Latino Studies Degree Requirements | Hours |
|--|------------|
| Major Requirements | 33–36 |
| Prerequisite and Collateral Courses | 4 |
| General Education and Electives to reach Minimum Total Hours | 80–83 |
| Total Hours—BA with a Major in Latin American and Latino Studies | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

For the Bachelor of Arts, 33 semester hours are required as distributed below. For the Bachelor of Arts with highest academic distinction, 36 semester hours are required as distributed below:

| Courses | Hours |
|--|--------------|
| LALS 101—Introduction to Latin American Studies ^a | 3 |
| LALS 102—Introduction to Latino Studies ^{ab} | 3 |
| Three 200-level courses | 9 |
| LALS 301—Research Methods in Latin American and Latino Studies ^c | 3 |
| One additional 100- or 200-level course | 3 |
| Two additional 300-level courses | 6 |
| Two 400-level courses | 6 |
| LALS 302—Research Workshop in Latin American and Latino Studies (Required for highest departmental distinction only) | 3 |
| Total Hours—Major Requirements | 33–36 |

^a This course is approved for the *Exploring World Cultures General Education* category.

^b This course is approved for the *Understanding U.S. Society General Education* category.

^c LALS 301 fulfills the *Writing-in-the-Discipline* requirement.

Prerequisite and Collateral Courses

| Courses | Hours |
|--|----------|
| One of the following courses: | 4 |
| SPAN 104—Topics in Spanish Language and Culture (4) | |
| SPAN 114—Spanish for Students from Hispanic Background III (4) | |
| Total Hours—Prerequisite and Collateral Courses | 4 |

Recommended Plan of Study

To view a recommended plan of study for the major in Latin American and Latino Studies, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Latin American and Latino Studies

Students from other disciplines who want to minor in Latin American and Latino Studies must complete 18 credit hours as outlined below:

| Required Courses—Latin American and Latino Studies Minor | Hours |
|--|-----------|
| LALS 101—Introduction to Latin American Studies | 3 |
| LALS 102—Introduction to Latino Studies | 3 |
| Two 200-level LALS courses | 6 |
| One 300-level LALS course | 3 |
| One 400-level LALS course | 3 |
| Total Hours—Latin American and Latino Studies Minor | 18 |

Distinction

To be considered for distinction, students must obtain a 3.00/4.00 overall GPA, plus the following:

- 3.50/4.00 GPA in the major for **Distinction**;
- 3.75/4.00 GPA in the major for **High Distinction**;
- 3.75/4.00 GPA in the major, LALS 302, and completion of a senior thesis for **Highest Distinction**.

DEPARTMENT OF MATHEMATICS, STATISTICS, AND COMPUTER SCIENCE

322 Science and Engineering Offices (SEO)
(312) 996-3041

<http://www.math.uic.edu>

Administration: Head, David E. Marker
Director of Undergraduate Studies, Steven Hurder,
dus@math.uic.edu

Academic Advisors: Florencio Diaz and Mary F. Hemby

Mathematics is the language of the sciences and of all fields where patterns and systematic processes need to be analyzed. The study of the various mathematical sciences involves learning ideas and techniques essential for the natural and social sciences and is increasingly important in all areas of a technological society.

Occupational fields open to students who have completed one of the curricula in the department include mathematical analysis in industry or government, teaching, research, actuarial (insurance) work, computer programming and other statistical work, and mathematical aspects of business and finance.

The Department of Mathematics, Statistics, and Computer Science offers programs leading to the Bachelor of Science with a Major in Mathematics, the Bachelor of Science in the Teaching of Mathematics, and the Bachelor of Science in Mathematics and Computer Science. A Minor in Mathematics and a Minor in Mathematics and Computer Science are also offered. Each major is assigned a department advisor who approves the student's choice of courses.

Transfer Students

A transfer student majoring in one of these programs must successfully complete at least half of the mathematics courses in residence at UIC. For the BS with a Major in Mathematics, at least 12 semester hours must be at the advanced level; for the BS in Mathematics and Computer Science, 14 semester hours must be upper division. No transfer course below calculus may be counted toward the BS with a Major in Mathematics, the BS in the Teaching of Mathematics, the BS in Mathematics and Computer Science, or the BS in Statistics and Operations Research. Only grades of A, B, or C in calculus and above from other colleges and universities will be accepted for transfer credit.

Admission Requirements

Students must have concurrent registration in MATH 180—Calculus I, or equivalent standing, as a requirement for declaration of a major in any departmental program.

Honors Courses

Honors sections of some courses in mathematics are offered throughout the year. For details consult the *Schedule of Classes*. Admission to honors sections is not restricted to mathematics majors, but consent of the department is required.

BS with a Major in Mathematics**Degree Requirements—BS with a Major in Mathematics**

To earn a Bachelor of Science in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Mathematics, Statistics, and Computer Science degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS with a Major in Mathematics Degree Requirements | Hours |
|---|------------|
| Major Requirements | 41 |
| General Education and Electives to reach Minimum Total Hours | 79 |
| Minimum Total Hours—BS with a Major in Mathematics | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| MATH 180—Calculus I ^{ab} | 5 |
| MATH 181—Calculus II ^a | 5 |
| MATH 210—Calculus III ^a | 3 |
| MATH 215—Introduction to Advanced Mathematics | 3 |
| MATH 300—Writing for Mathematics ^c | 1 |
| MATH 313—Analysis I | 3 |
| MATH 320—Linear Algebra I | 3 |
| MATH 330—Abstract Algebra I | 3 |

Electives chosen from mathematics, statistics, and mathematical computer science courses numbered 200 or higher, with the exception of MATH 205, MATH 310, and MATH 410. At least six hours must be at the 400-level, excluding MATH 496, MCS 496, and STAT 496.

| | |
|---------------------------------------|-----------|
| Total Hours—Major Requirements | 41 |
|---------------------------------------|-----------|

NOTE: Students planning advanced study in Mathematics should choose their electives from among the following:

| | |
|---|---|
| MATH 414—Analysis II | 3 |
| MATH 417—Complex Analysis with Applications | 3 |
| MATH 430—Formal Logic I | 3 |
| MATH 431—Abstract Algebra II | 3 |
| MATH 435—Foundations of Number Theory | 3 |
| MATH 442—Differential Geometry of Curves and Surfaces | 3 |
| MATH 445—Introduction to Topology I | 3 |
| MATH 446—Introduction to Topology II | 3 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 also fulfills the LAS Quantitative Reasoning requirement.

^c MATH 300 fulfills the Writing-in-the-Discipline requirement.

Recommended Plan of Study—BS with a Major in Mathematics

Students who do not place into MATH 180 should expect to take summer session courses and possibly take longer than four years to graduate. The honors sections of MATH 180, 181, and 210 are recommended for math majors. Students who have taken AP exams in calculus or computer science need to see a departmental advisor for correct placement.

To view a recommended plan of study for the BS with a major in Mathematics, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Mathematics

Students from other disciplines who want to minor in Mathematics must complete 21 semester hours distributed as follows:

| Required Courses—Mathematics Minor | Hours |
|---|-----------|
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MATH 210—Calculus III | 3 |
| MATH, MCS, or STAT electives at the 200-, 300-, or 400-level (with one in the MATH rubric with the exception of MATH 205) | 8 |
| Total Hours—Mathematics Minor | 21 |

BS in the Teaching of Mathematics

Degree Requirements—BS in the Teaching of Mathematics

To earn a Bachelor of Science in the Teaching of Mathematics degree from UIC, students must complete University, college, and department degree requirements. The Department of Mathematics, Statistics, and Computer Science degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* for additional degree requirements and college academic policies.

| BS in the Teaching of Mathematics Degree Requirements | Hours |
|--|------------|
| Major Requirements | 35 |
| Additional Requirements for Teacher Certification | 34 |
| General Education and Electives to reach Minimum Total Hours | 51 |
| Minimum Total Hours—BS in the Teaching of Mathematics | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for a list of courses to meet this requirement.

Major Requirements

| Courses | Hours |
|---|-----------|
| MATH 180—Calculus I ^{ab} | 5 |
| MATH 181—Calculus II ^a | 5 |
| MATH 210—Calculus III ^a | 3 |
| MATH 215—Introduction to Advanced Mathematics | 3 |
| MATH 300—Writing for Mathematics ^c | 1 |
| MTHT 411—Advanced Euclidean Geometry | 3 |
| MTHT 430—Mathematical Analysis for Teachers I | 3 |
| One of the following courses: | 3 |
| MATH 310—Applied Linear Algebra (3) | |
| MATH 320—Linear Algebra I (3) | |
| One of the following courses: | 3 |
| MATH 330—Abstract Algebra I (3) | |
| MTHT 435—Abstract Algebra (3) | |
| One of the following courses: | 3 |
| MTHT 420—Methods of Structured Programming I (3) | |
| STAT 381—Applied Statistical Methods I (3) | |
| One additional elective course in MATH, MTHT, or STAT (Recommended: MATH 417, 425, 430, or 435) | 3 |
| Total Hours—Major Requirements | 35 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c MATH 300 fulfills the Writing-in-the-Discipline requirement.

Additional Requirements for Teacher Certification

| Courses | Hours |
|--|-----------|
| ED 200—Education Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | 4 |
| CI 414—Middle and High School Literacy | 3 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| MTHT 400—Methods of Teaching Secondary Mathematics I | 3 |
| MTHT 401—Methods of Teaching Secondary Mathematics II | 3 |
| MTHT 438—Educational Practice with Seminar I | 6 |
| MTHT 439—Educational Practice with Seminar II | 6 |
| Total Hours—Additional Requirements for Teacher Certification | 34 |

Students in the Teacher Education in Mathematics curriculum must have a GPA of at least 2.50/4.00 in all mathematics courses (MATH, MCS, MTHT, or STAT) beginning with all calculus (excluding MTHT 400 and 401) to be recommended for student teaching (MTHT 438 and 439). The candidate must also maintain a minimum cumulative GPA of 2.50/4.00 and a minimum GPA of 3.00/4.00 in education courses.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basic Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See *Council on Teacher Education and Secondary Education Program* in the *College of*

Education section of the catalog. For detailed information concerning degree and state teacher certification requirements, see the *Program Guide for Teacher Education in Mathematics*, available from the secondary education coordinator of the Office of Mathematics and Computer Education.

Recommended Plan of Study—BS in the Teaching of Mathematics

To view a recommended plan of study for the Bachelor of Science in the Teaching of Mathematics, please visit the LAS Web site at www.uic.edu/las/college/info/fygp.

BS in Mathematics and Computer Science

The BS in Mathematics and Computer Science curriculum is designed for students who seek careers in computer science and/or computer related fields requiring a strong mathematical background. The program is flexible and provides the students with a well-rounded education. Students who successfully complete the program are awarded the degree of Bachelor of Science in Mathematics and Computer Science.

Degree Requirements—BS in Mathematics and Computer Science

To earn a Bachelor of Science in Mathematics and Computer Science degree from UIC, students must complete University, college, and department degree requirements. The Department of Mathematics, Statistics, and Computer Science degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS in Mathematics and Computer Science Degree Requirements | Hours |
|---|------------|
| Requirements for the Curriculum | 120 |
| Minimum Total Hours—BS in Mathematics and Computer Science | 120 |

Requirements for the Curriculum

The Requirements for the Curriculum include courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|--|----------|
| ENG 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (the equivalent of two years of a single language at the college level) | 0–16 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| Analyzing the Natural World 2 laboratory courses ^{ab} | 8–10 |
| MATH 180—Calculus I ^{cd} | 5 |
| MATH 181—Calculus II ^c | 5 |
| MATH 210—Calculus III ^c | 3 |
| MATH 215—Introduction to Advanced Mathematics | 3 |
| MCS 260—Introduction to Computer Science ^c | 4 |
| MCS 275—Programming Tools and File Management | 4 |
| MATH 300—Writing for Mathematics ^e | 1 |
| One of the following courses: | 3 |
| MATH 310—Applied Linear Algebra (3) | |
| MATH 320—Linear Algebra I (3) | |

| | |
|--|------------|
| One of the following courses: | 3–4 |
| MCS 320—Introduction to Symbolic Computation (3) | |
| MCS 360—Introduction to Data Structures (4) | |
| Four electives chosen from mathematics, statistics, and mathematical computer science courses related to computer science numbered 200 or higher, with the exception of MATH 205. At least six hours must be at the 400-level excluding MATH 496, MSC 496, and STAT 496. | 12 |

| | |
|---|-------|
| Electives to complete degree requirement of 120 hours | 29–48 |
|---|-------|

| | |
|--|------------|
| Total Hours—Requirements for the Curriculum | 120 |
|--|------------|

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b Students are encouraged to choose a natural sciences sequence of PHYS 141 and 142; CHEM 112 and 114; CHEM 116 and 118; or BIOS 100 and 101. Any of these sequences would fulfill the LAS General Education requirement of two laboratory courses within the Analyzing the Natural World General Education category.

^c This course is approved for the Analyzing the Natural World General Education category.

^d MATH 180 also fulfills the LAS Quantitative Reasoning requirement.

^e MATH 300 fulfills the LAS Writing-in-the-Discipline requirement.

Recommended Plan of Study—BS in Mathematics and Computer Science

A recommended basic sequence of courses is listed below. Students who do not place into MATH 180 should expect to take summer session courses and possibly take longer than four years to graduate. Students who have taken AP exams in calculus or computer science need to see a departmental advisor for correct placement.

Freshman Year

| Fall Semester | Hours |
|---|--------------|
| MATH 180—Calculus I | 5 |
| Foreign language | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| General Education Core course | 3–4 |
| Total Hours | 15–16 |

| Spring Semester | Hours |
|--|-----------|
| MATH 181—Calculus II | 5 |
| MCS 260—Introduction to Computer Science | 4 |
| Foreign language | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Total Hours | 16 |

Sophomore Year

| Fall Semester | Hours |
|---|--------------|
| MATH 210—Calculus III | 3 |
| MATH 215—Introduction to Advanced Mathematics | 3 |
| Foreign language | 4 |
| Analyzing Natural World course | 4–5 |
| Total Hours | 14–15 |

| Spring Semester | Hours |
|---|--------------|
| MATH 310—Applied Linear Algebra OR | |
| MATH 320—Linear Algebra I | 3 |
| MCS 275—Programming Tools and File Management | 4 |
| Analyzing Natural World course | 4–5 |
| Foreign language | 4 |
| Total Hours | 15–16 |

Junior Year

| Fall Semester | Hours |
|---|--------------|
| MCS 320—Introduction to Symbolic Computation <i>OR</i> | |
| MCS 360—Introduction to Data Structures | 3–4 |
| MATH 300—Writing for Mathematics | 1 |
| Analyzing Natural World course | 4–5 |
| General Education Core course | 3 |
| General Education Core course | 3–4 |
| Total Hours | 14–17 |
| Spring Semester | Hours |
| Elective | 6 |
| MATH, MCS, or STAT elective | 3 |
| General Education Core course | 3 |
| General Education Core course | 3–4 |
| Total Hours | 15–16 |

Senior Year

| Fall Semester | Hours |
|--------------------------------|--------------|
| MATH, MCS, or STAT elective | 3 |
| MATH, MCS, or STAT elective | 3 |
| Electives | 11 |
| Total Hours | 17 |
| Spring Semester | Hours |
| MATH or MCS elective from list | 3 |
| Electives | 14 |
| Total Hours | 17 |

Elective Course Suggestions for MCS Majors

A minor is strongly recommended in: physics, chemistry, biology, economics, or from the College of Engineering, except computer science.

It is strongly recommended that at least 3 of the MATH or MCS electives be chosen from One of the following clusters:

Discrete Mathematical Computer Science

| Courses | Hours |
|---|--------------|
| MCS 361—Discrete Mathematics | 3 |
| MCS 421—Combinatorics | 3 |
| MCS 423—Graph Theory | 3 |
| MCS 425—Codes and Cryptography | 3 |
| MCS 441—Theory of Computation I | 3 |
| MATH 430—Formal Logic I | 3 |
| MATH 435—Foundations of Number Theory | 3 |
| MATH 436—Number Theory for Applications | 3 |

Algorithms and Programming

| Courses | Hours |
|---|--------------|
| MCS 360—Introduction to Data Structures | 4 |
| MCS 401—Computer Algorithms I | 3 |
| MCS 415—Programming Language Design | 3 |
| MCS 451—Object-Oriented Programming C++ | 3 |
| MCS 481—Computational Geometry | 3 |

Computational Methods

| Courses | Hours |
|---|--------------|
| MATH 220—Introduction to Differential Equations | 3 |
| MCS 320—Introduction to Symbolic Computation | 3 |
| MCS 471—Numerical Analysis | 3 |
| MCS 472—Introduction to Industrial Math and Computation | 3 |

Statistical Computation

| Courses | Hours |
|---|--------------|
| STAT 381—Applied Statistical Methods I | 3 |
| STAT 401—Introduction to Probability | 3 |
| STAT 481—Applied Statistical Methods II | 3 |
| STAT 486—Statistical Consulting | 3 |
| STAT 471—Linear and Nonlinear Programming | 3 |

Actuarial Science

| Courses | Hours |
|--|--------------|
| STAT 381—Applied Statistical Methods I | 3 |
| STAT 401—Introduction to Probability | 3 |
| STAT 481—Applied Statistical Methods II | 3 |
| STAT 461—Applied Probability Models I <i>OR</i> | 3 |
| STAT 411—Statistical Theory | 3 |

Strongly recommended:

| | |
|---|-----|
| ECON 120—Principles of Microeconomics | 3 |
| ECON 121—Principles of Macroeconomics | 3 |
| ECON 220—Microeconomics: Theory and Applications <i>OR</i> | |
| ECON 218—Microeconomics: Theory and Business Applications | 3–4 |
| ECON 221—Macroeconomics in the World Economy: Theory and Applications | 3 |

And two electives:

| | |
|---|---|
| ECON 346—Econometrics | 3 |
| ECON 450—Business Forecasting Using Time Series Methods | 3 |

Minor in Mathematics and Computer Science

Students from other disciplines who want to minor in Mathematics and Computer Science must complete 21 semester hours distributed as follows:

Required Courses—Mathematics and Computer Science Minor

| | Hours |
|---|--------------|
| MATH 180—Calculus I | 5 |
| MATH 181—Calculus II | 5 |
| MCS 260—Introduction to Computer Science | 4 |
| MCS 275—Programming Tools and File Management | 4 |
| One MCS course at the 300- or 400-level | 3 |
| Total Hours—Mathematics and Computer Science Minor | 21 |

Distinction

For consideration, the student must have a minimum of a 3.50/4.00 GPA in upper-division courses in the department. The department may award High and Highest Distinction in recognition of outstanding academic achievement.

MOVING IMAGE ARTS

1506 University Hall (UH)
(312) 413-2372
<http://www.uic.edu/depts/engl/mia/>
Administration: Sara Hall, sahall@uic.edu

Minor in Moving Image Arts

The College of Liberal Arts and Sciences and the College of Architecture and the Arts offer a minor in Moving Image Arts for undergraduate students. The minor is an academic option that students may choose if they wish to complement their major field of study with focused knowledge in the studies and practices of film, video, and new media. Students receive instruction in media history, aesthetics, theory, and technique. They engage in inquiries into how film, television, video, and digital media develop and are received in varied cultural, historical, social, economic, and technological contexts.

Requirements for the Minor

Students wishing to minor in Moving Image Arts must complete 18–20 semester hours, in consultation with a faculty advisor from the Moving Image Arts Committee, as outlined below:

| Required Courses—Moving Image Arts Minor | Hours |
|--|--------------|
| One of the following courses: | 3–4 |
| ENGL 102—Introduction to Film (3) | |
| ENGL 121—Introduction to Moving Image Arts (3) | |
| AD 170—Introduction to Time-Based Visual Arts (4) | |
| Two of the following courses: | 6 |
| COMM 200—Communication Technology (3) | |
| AH/ENGL 232—Film History I: 1890 to World War II (3) | |
| AH/ENGL 233—Film History II: World War II to the Present (3) | |
| ENGL 302—Studies in the Moving Image ^a | 3 |
| Two elective courses from the list of courses approved for the Moving Image Arts Minor | 6–7 |
| Total Hours—Moving Image Arts Minor | 18–20 |

^a ENGL 302 has a prerequisite of ENGL 102 or consent of the instructor.

Courses Approved for the Minor in Moving Image Arts

The following courses are approved for a minor in Moving Image Arts. Students select from this list with the approval of their advisor in moving image arts.

| Courses | Hours |
|---|-------|
| Anthropology (ANTH) | |
| 211—Visual Anthropology | 3 |
| Art and Design (AD) | |
| 170—Introduction to Time-Based Visual Arts | 4 |
| Art History (AH) | |
| 232—History of Film I: 1890 to World War II Same as ENGL 232 | 3 |
| 233—History of Film II: World War II to the Present Same as ENGL 232 | 3 |
| 432—Topics in Film and Video | 3 |
| 434—Women and Film Same as ENGL 472, GWS 472 | 3 |
| Communication (COMM) | |
| 103—Introduction to Media | 3 |
| 200—Communication Technologies | 3 |
| 330—Mass Media and Popular Culture | 3 |

English (ENGL)

| | |
|---------------------------------------|---|
| 102—Introduction to Film | 3 |
| 120—Film and Culture | 3 |
| 121—Introduction to Moving Image Arts | 3 |

French (FR)

| | |
|---|---|
| 440—Topics in French and Francophone Cinema | 3 |
|---|---|

Germanic Studies (GER)

| | |
|---|---|
| 217—German Cinema | 3 |
| 422—Germanic Cultural Studies III: Themes | 3 |

Italian (ITAL)

| | |
|--------------------|---|
| 180—Italian Cinema | 3 |
|--------------------|---|

Latin American and Latino Studies (LALS)

| | |
|--|---|
| 278—Latin American/Latino Film Studies | 3 |
|--|---|

Philosophy (PHIL)

| | |
|-------------------------|---|
| 234—Philosophy and Film | 3 |
|-------------------------|---|

Polish (POL)

| | |
|-----------------------------------|---|
| 150—Introduction to Polish Cinema | 3 |
|-----------------------------------|---|

Russian (RUSS)

| | |
|------------------------------------|---|
| 150—Introduction to Russian Cinema | 3 |
|------------------------------------|---|

NATIVE AMERICAN STUDIES

Office of the Dean
411 University Hall
(312) 355-3448
gallaga@uic.edu
Administration: Bill Gallaga

Minor in Native American Studies

Students wishing to minor in Native American Studies must complete 18 semester hours of course work appropriate to the Native American Studies option chosen in consultation with an advisor. At least 9 semester hours must be at the 200-level or above. A maximum of 6 semester hours of a single course repeatable for credit may be counted toward the minor.

Courses Recommended for the Minor in Native American Studies

A complete description of each of these courses may be found in the appropriate course listings of the department.

| Courses | Hours |
|---|-------|
| Anthropology (ANTH) | |
| 102—Introduction to Archaeology | 3 |
| 226—Archaeology of North America Same as LALS 257 | 3 |
| 270—The First Americans | 3 |
| 271—American Indian Religion and Philosophy | 3 |
| 272—North American Indians | 3 |
| 275—South American Indians Same as LALS 255 | 3 |
| Native American Studies (NAST) | |
| 112—Introduction to Native American Literatures Same as ENGL 112 | 3 |
| 113—Native American Studies: Sovereignty | 3 |
| 115—Introduction to North American Indian History Same as HIST 115 | 3 |
| 271—Native American Art Same as AH 271 | 3 |
| 415—American Indian Ethnohistory Same as HIST 415 | 3 |
| 471—Topics in Native American Literatures Same as ENGL 471 | 3 |

NEUROSCIENCE

4277 Science and Engineering Laboratory (SEL)
(312) 413-1060

<http://www.uic.edu/las/LIN/>

Administration: Director, Laboratory of Integrative Neuroscience, Michael E. Ragozzino

Academic Advisors: David Featherstone, df@uic.edu,
David Wirtshafter, davew@uic.edu

The Bachelor of Science in Neuroscience is awarded by the College of Liberal Arts and Sciences to students who successfully complete the curriculum. It is a joint program sponsored by the Departments of Biological Sciences and Psychology with the support of Laboratory of Integrative Neuroscience (LIN) faculty from the Departments of Chemistry and Philosophy. Students are advised by the Department of Biological Sciences.

The curriculum is intended for students planning advanced study in neuroscience; those who will be pursuing health professional careers; and those seeking employment and careers in the life sciences upon completing their bachelor's degree.

BS in Neuroscience

Admission Requirements

A student must have a cumulative grade point average of 3.00/4.00 and have completed either BIOS 286—Biology of the Brain or PSCH 262—Physiological Psychology.

Degree Requirements

To earn a Bachelor of Science in Neuroscience degree from UIC, students must complete University, college, and department degree requirements.

The curriculum requires a minimum of 120 semester hours as distributed below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

BS in Neuroscience

| Degree Requirements | Hours |
|---|------------|
| Requirements for the Curriculum | 120 |
| Minimum Total Hours—BS in Neuroscience | 120 |

Requirements for the Curriculum

The requirements for the curriculum include the courses necessary to complete the *General Education and Writing-in-the-Discipline* requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|--|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (the equivalent of two years of a single language at the college level) | 0–16 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| PSCH 100—Introduction to Psychology ^b | 4 |
| MATH 180—Calculus I ^{cd} | 5 |
| BIOS 100—Biology of Cells and Organisms ^c | 5 |
| BIOS 101—Biology of Populations and Communities ^c | 5 |
| BIOS 220—Mendelian and Molecular Genetics ^e | 3 |
| BIOS 221—Genetics Laboratory | 3 |
| BIOS 222—Cell Biology | 3 |

| | |
|---|---|
| CHEM 112—General College Chemistry I ^c | 5 |
| CHEM 114—General College Chemistry II ^c | 5 |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| PHIL 202—Philosophy of Psychology | 3 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| PSCH 343—Statistical Methods in Behavioral Research | 3 |
| BIOS/PHIL/PSCH 484/485—Neuroscience I and II | 6 |

One of the following courses:

| | |
|---------------------------------------|---|
| BIOS 286—Biology of the Brain (3) | 3 |
| PSCH 262—Physiological Psychology (3) | |

One of the following courses:

| | |
|--|---|
| PHIL 203—Metaphysics (3) | 3 |
| PHIL 204—Introduction to the Philosophy of Science (3) | |
| PHIL 403—Metaphysics (3) | |
| PHIL 404—Philosophy of Science (3) | |

Two of the following laboratory courses:

| | |
|--|-----|
| BIOS 483—Neuroanatomy (4) | 6–8 |
| BIOS 486—Animal Behavior and Neuroethology (4) | |
| BIOS 489—Cellular Neurobiology Lab (3) | |
| PSCH 351—Laboratory in Perception (3) | |
| PSCH 361—Laboratory in Learning and Conditioning (3) | |
| PSCH 363—Laboratory in Physiological Psychology (3) | |

One of the following courses:

| | |
|---------------------------------------|---|
| PSCH 350—Sensation and Perception (3) | 3 |
| PSCH 360—Learning (3) | |

Nine semester hours in upper-division courses in biological sciences,^e chemistry, philosophy, psychology, or any physics courses to be chosen in consultation with an academic advisor. 9

Electives to complete degree requirement of 120 hours 0–16

Minimum Total Hours—Requirements for the Curriculum 120

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b This course is approved for the Understanding the Individual and Society General Education category.

^c This course is approved for the Analyzing the Natural World General Education category.

^d Completion of MATH 121, the prerequisite to MATH 180, or placement into MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^e BIOS 220 fulfills the LAS Writing-in-the-Discipline requirement. BIOS 386—Seminar in Neurobiology is also recommended from the biological sciences electives to develop written and oral communication skills.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Science in Neuroscience, please visit the LAS Web site at <http://www.uic.edu/las/college/info/fygp>.

Distinction

Distinction in Neuroscience. Awarded at the time of graduation to those students who demonstrate exceptional performance. Distinction in Neuroscience is awarded to students with a minimum of 3.70 cumulative grade point average in the curriculum and to students who achieve a minimum 3.40 grade point average and successfully complete an independent research project in BIOS 399 or PSCH 399.

Highest Distinction in Neuroscience. Awarded to students who have a minimum 3.70 grade point average in the neuroscience curriculum and successfully complete a BIOS 399 or PSCH 399 (research) level course in their area of concentration.

DEPARTMENT OF PHILOSOPHY

1421 University Hall (UH)
(312) 996-3022

<http://www.uic.edu/depts/phil>

Administration: Chair, Peter Hylton

Director of Undergraduate Studies, Jon Jarrett, jarrett@uic.edu

Philosophy is the study of beliefs, values, and wisdom. It develops the skills that are fundamental to reasoning clearly and evaluating the cogency of arguments found in everyday contexts such as politics, religion, and morality. Philosophers identify and discuss our basic beliefs and practices. For example, what is the difference between real science and pseudoscience? How can we be free if we are the products of genes and environment? Is it ever permissible to break the law? Is a doctor ever justified in lying to a patient? Are we justified in claiming knowledge?

Many employers are looking for job candidates who can reason well, articulate a viewpoint, defend their beliefs in writing, and solve abstract problems. Philosophical education is important in preparing for careers in business, engineering, law, medicine, and the sciences.

BA with a Major in Philosophy

Degree Requirements—Major in Philosophy

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Philosophy degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Philosophy Degree Requirements | Hours |
|---|------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in Philosophy | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

Of the 33 semester hours required for the major, students must complete at least 12 semester hours at the 400-level. Courses must be distributed across several broad areas as follows:

| Courses | Hours |
|---|-------|
| PHIL 102—Introductory Logic ^a | 3 |
| PHIL 210—Symbolic Logic | 3 |
| PHIL 300—Fundamentals of Philosophical Discourse ^b | 3 |

History of Philosophy: Three courses, each of which must come from a different group: 9

Group 1

- PHIL 220—Ancient Philosophy I: Plato and His Predecessors (3)
- PHIL 221—Ancient Philosophy II: Aristotle and His Successors (3)
- PHIL 428—Topics in Ancient Philosophy (3)

Group 2

- PHIL 422—Medieval Philosophy (3)

Group 3

- PHIL 223—History of Modern Philosophy I: Descartes and His Successors (3)
- PHIL 423—Studies in Early Modern Philosophy (3)

Group 4

- PHIL 224—History of Modern Philosophy II: Kant and His Predecessors (3)
- PHIL 424—Kant (3)

Group 5

- PHIL 225—19th-Century Philosophy (3)
- PHIL 425—Studies in 19th-Century Philosophy (3)

Two courses from the following list:

- PHIL 201—Theory of Knowledge (3)
- PHIL 202—Philosophy of Psychology (3)
- PHIL 203—Metaphysics (3)
- PHIL 204—Introduction to the Philosophy of Science (3)
- PHIL 211—Inductive Logic and Decision Making (3)
- PHIL 226—Twentieth-Century Analytic Philosophy (3)
- PHIL 227—Continental Philosophy I: Phenomenology and Existentialism (3)
- PHIL 240—Philosophy and Revelation: Jewish and Christian Perspectives (3)
- PHIL 241—Philosophy of Religion (3)
- PHIL 401—Theory of Knowledge (3)
- PHIL 402—Topics in Philosophy of Mind (3)
- PHIL 403—Metaphysics (3)
- PHIL 404—Philosophy of Science (3)
- PHIL 406—Philosophy of Language (3)
- PHIL 426—Analysis and Logical Empiricism (3)
- PHIL 427—Continental Philosophy II: European Thought since 1960 (3)
- PHIL 441—Topics in Philosophy of Religion (3)

One course from the following list:

- PHIL 230—Topics in Ethics and Political Philosophy (3)
- PHIL 232—Sex Roles: Moral and Political Issues (3)
- PHIL 234—Philosophy and Film (3)
- PHIL 430—Ethics (3)
- PHIL 431—Social/Political Philosophy (3)
- PHIL 432—Topics in Ethics (3)
- PHIL 433—Topics in Social/Political Philosophy (3)

Two additional philosophy courses, at least one of which must be above the 100-level

Total Hours—Major Requirements 33

^a PHIL 102 also fulfills the LAS quantitative reasoning requirement.

^b PHIL 300 also fulfills the Writing-in-the-Discipline requirement.

Degree Requirements—Major in Philosophy with Departmental Distinction

The major with Departmental Distinction is designed for serious students who intend to continue studying philosophy in graduate school or who plan to enter law or other professional schools. Students may declare themselves as candidates after completion of 16 hours of philosophy. A GPA of 3.70/4.00 in the philosophy courses selected as satisfying the major with Departmental Distinction and a 3.50/4.00 overall GPA are required for granting the degree.

Departmental Distinction

In addition to satisfying the requirements for the Major in Philosophy, students must take one additional course at the 400-level, and have a GPA of 3.70/4.00 in all philosophy courses, including transferred courses.

High Departmental Distinction

In addition to satisfying the requirements for Departmental Distinction, students must take PHIL 390—Senior Thesis (3 hours). To select this option, students must have the approval of both the director of undergraduate studies as well as the professor with whom the student will be writing the thesis.

Recommended Plan of Study

To view a recommended plan of study for the major in Philosophy and the major in Philosophy with Distinction, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Philosophy

Students from other disciplines who want to minor in Philosophy must complete 15 semester hours as outlined below:

| Required Courses—Philosophy Minor | Hours |
|--|-----------|
| PHIL 102—Introductory Logic ^a | 3 |
| Two courses from the following: | 6 |
| PHIL 220—Ancient Philosophy I: Plato and His Predecessors (3) | |
| PHIL 221—Ancient Philosophy II: Aristotle and His Successors (3) | |
| PHIL 223—History of Modern Philosophy I: Descartes and His Successors (3) | |
| PHIL 224—History of Modern Philosophy II: Kant and His Predecessors (3) | |
| PHIL 225—19th-Century Philosophy (3) | |
| Two additional philosophy courses, at least one of which must be at the 400-level, excluding independent study courses | 6 |
| Total Hours—Philosophy Minor | 15 |

^a PHIL 102 also fulfills the LAS Quantitative Reasoning requirement.

DEPARTMENT OF PHYSICS

2236 Science and Engineering South (SES)
(312) 996-3400

melodies@uic.edu

<http://physicsweb.phy.uic.edu>

Administration: Head, Henrik Aratyn, aratyn@uic.edu

Directors of Undergraduate Studies, Cecilia Gerber,

gerber@uic.edu; Misha Stephanov, misha@uic.edu

Student Services: Melodie Shaw

The fundamental goal of the science of physics is to develop a basic and comprehensive understanding and description of all forms of matter and energy. This goal is pursued through experimental and theoretical investigations, with experimental results pointing the way toward possible new theories and tentative theories suggesting new experiments. Physics occupies a middle ground between mathematics and engineering, using the techniques of the former and providing new ideas and materials (structures and properties) to the latter.

The Department of Physics offers the Bachelor of Science in Physics (Curriculum in Physics), the Bachelor of Arts in Liberal Arts and Sciences with a Major in Physics, and the Bachelor of Science in the Teaching of Physics.

The Physics major who continues on to a PhD or who combines a physics background with an advanced degree in engineering or another science, or with an MBA, will find many positions available in industry. The Physics major who obtains a PhD will qualify in many cases for a faculty position in engineering as well as physics. The real shortage of qualified high school physical science teachers nationally also provides excellent career opportunities for students majoring in the teacher education program.

In addition to the Physics majors, the department also offers a Minor in Physics and a Minor in the Teaching of Physics.

The Department of Physics assigns advisors for majors in all of its programs. Students are required to have their schedules approved by their advisors each term before registering.

BA with a Major in Physics

Degree Requirements—BA with a Major in Physics

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Physics degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Physics Degree Requirements | Hours |
|--|------------|
| Required Prerequisite and Collateral Courses | 26 |
| Major Requirements | 40–42 |
| General Education and Electives to reach Minimum Total Hours | 52–54 |
| Minimum Total Hours—BA with a Major in Physics | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisors to determine which courses may be counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses

| Courses | Hours |
|---|-----------|
| MATH 180—Calculus I ^{ab} | 5 |
| MATH 181—Calculus II ^a | 5 |
| MATH 210—Calculus III ^a | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| CHEM 112—General College Chemistry I ^a | 5 |
| CHEM 114—General College Chemistry II ^a | 5 |
| Total Hours—Required Prerequisite and Collateral Courses | 26 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

Major Requirements

| Courses | Hours |
|---|--------------|
| One of the following sequences in physics. | |
| The PHYS 105–108 sequence requires a grade of B or better in each course. The PHYS 141–142 sequence is strongly recommended. | 8–10 |
| PHYS 141—General Physics I (Mechanics) (4) ^a | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^a | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) ^{ab} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{ab} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{ab} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{ab} | |
| PHYS 215—Mathematical Methods for Physicists | 4 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) | 4 |
| PHYS 401—Electromagnetism I | 4 |
| PHYS 411—Quantum Mechanics I | 4 |
| PHYS 441—Theoretical Mechanics | 4 |
| PHYS 461—Thermal and Statistical Physics | 4 |
| PHYS 481—Modern Experimental Physics I ^c | 4 |
| PHYS 499—Survey of Physics Problems ^d | 1 |
| Total Hours—Major Requirements | 40–42 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

^c PHYS 481 fulfills the Writing-in-the-Discipline requirement.

^d Students must achieve a grade of C or better in PHYS 499.

Recommended Plan of Study

To view a recommended plan of study for the major in Physics, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Physics

Students from other disciplines who want to minor in Physics must complete 19–21 semester hours distributed as follows:

| Required Courses—Physics Minor | Hours |
|---|--------------|
| One of the following sequences in physics. | |
| The PHYS 105–108 sequence requires a grade of B or better in each course. The PHYS 141–142 sequence is strongly recommended. | |
| PHYS 141—General Physics I (Mechanics) (4) | 8–10 |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) | |
| PHYS 106—Introductory Physics I—Laboratory (1) | |
| PHYS 107—Introductory Physics II—Lecture (4) | |
| PHYS 108—Introductory Physics II—Laboratory (1) | |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) | 4 |
| One of the following courses: | 4 |
| PHYS 401—Electromagnetism I (4) ^a | |
| PHYS 411—Quantum Mechanics I (4) | |
| PHYS 441—Theoretical Mechanics (4) ^a | |
| PHYS 461—Thermal and Statistical Physics (4) | |
| Total Hours—Physics Minor | 19–21 |

^a PHYS 401 and 441 have a prerequisite of PHYS 215.

BS in the Teaching of Physics

Degree Requirements—BS in the Teaching of Physics

To earn a Bachelor of Science in the Teaching of Physics degree from UIC, students must complete University, college, and department degree requirements. The Department of Physics degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS in the Teaching of Physics Degree Requirements | Hours |
|--|------------|
| Required Prerequisite and Collateral Courses | 26 |
| Major Requirements | 40–42 |
| General Education and Electives to reach Minimum Total Hours | 52–54 |
| Minimum Total Hours—BS in the Teaching of Physics | 120 |

Note: Teacher education students must fulfill certain other requirements. Please see below and consult *Secondary Education Program* and *Council on Teacher Education* in the *College of Education* section of the catalog for more information.

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult

the course lists below and their advisors to determine which courses are counted toward the General Education and Writing-in-the-Discipline requirements.

Required Prerequisite and Collateral Courses

| Courses | Hours |
|---|-----------|
| MATH 180—Calculus I ^{ab} | 5 |
| MATH 181—Calculus II ^a | 5 |
| MATH 210—Calculus III ^a | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| CHEM 112—General College Chemistry I ^a | 5 |
| CHEM 114—General College Chemistry II ^a | 5 |
| Total Hours—Required Prerequisite and Collateral Courses | 26 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

Major Requirements

| Courses | Hours |
|---|--------------|
| One of the following sequences in physics. | |
| The PHYS 105–108 sequence requires a grade of B or better in each course. The PHYS 141–142 sequence is strongly recommended. | |
| PHYS 141—General Physics I (Mechanics) (4) ^a | 8–10 |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^a | |
| OR | |
| PHYS 105—Introductory Physics I—Lecture (4) ^{ab} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{ab} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{ab} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{ab} | |
| PHYS 215—Mathematical Methods for Physicists | 4 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) | 4 |
| PHYS 401—Electromagnetism I | 4 |
| PHYS 411—Quantum Mechanics I | 4 |
| PHYS 441—Theoretical Mechanics | 4 |
| PHYS 461—Thermal and Statistical Physics | 4 |
| PHYS 481—Modern Experimental Physics I ^c | 4 |
| PHYS 499—Survey of Physics Problems ^d | 1 |
| Total Hours—Major Requirements | 40–42 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

^c PHYS 481 fulfills the Writing-in-the-Discipline requirement.

^d Students must achieve a grade of C or better in PHYS 499.

Additional Requirements for Teacher Education

In addition to the specified course work in the major field, teacher education students must fulfill certain other course requirements as well as maintain a minimum cumulative GPA of 2.50/4.00. For detailed information, see the *Program Guide for Teacher Education in Physics*, which is available from the secondary education coordinator in the Department of Physics.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois

State Board of Education. The Basics Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See *Council on Teacher Education and Secondary Education Program* in the *College of Education* section of the catalog.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Science in the Teaching of Physics, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Teaching of Physics

Secondary education majors from other disciplines who want to minor in the Teaching of Physics must complete 19–21 semester hours distributed as follows:

Required Courses—Teaching of Physics Minor

One of the following sequences in physics.

The PHYS 105–108 sequence requires a grade of B or better in each course. The PHYS 141–142 sequence is strongly recommended.

PHYS 141—General Physics I (Mechanics) (4)

PHYS 142—General Physics II (Electricity and Magnetism) (4)

OR

PHYS 105—Introductory Physics I—Lecture (4)

PHYS 106—Introductory Physics I—Laboratory (1)

PHYS 107—Introductory Physics II—Lecture (4)

PHYS 108—Introductory Physics II—Laboratory (1)

PHYS 244—General Physics III (Modern Physics) 3

PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) 4

One of the following courses:

PHYS 401—Electromagnetism I (4)^a

PHYS 411—Quantum Mechanics I (4)

PHYS 441—Theoretical Mechanics (4)^a

PHYS 461—Thermal and Statistical Physics (4)

Total Hours—Teaching of Physics Minor 19–21

^a PHYS 401 and 441 have a prerequisite of PHYS 215.

This minor is open only to students obtaining full certification in an approved UIC Teacher Education major. To teach Physics as a second subject in Illinois public schools one must apply for and receive an Endorsement from the State Board of Education and meet all of the additional course and other requirements the Board has established.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application with the State of Illinois and take an examination administered by the State Board of Education. For information and application procedures, contact the Council on Teacher Education in the College of Education.

BS in Physics

Degree Requirements—BS in Physics

To earn a Bachelor of Science in Physics degree from UIC, students must complete University, college, and department degree requirements. The Department of Physics degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS in Physics Degree Requirements | Hours |
|--|------------|
| Requirements for the Curriculum | 120 |
| Minimum Total Hours—BS in Physics | 120 |

Requirements for the Curriculum

The requirements for the curriculum include the courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|--|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (the equivalent of two years of a single language at the college level) | 0–16 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^a | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^a | 3 |
| MATH 180—Calculus I ^{b,c} | 5 |
| MATH 181—Calculus II ^c | 5 |
| MATH 210—Calculus III ^c | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| CHEM 112—General College Chemistry I ^c | 5 |
| CHEM 114—General College Chemistry II ^c | 5 |

One of the following sequences in physics.

The PHYS 141–142 sequence is strongly recommended.

PHYS 141—General Physics I (Mechanics) (4)^c

PHYS 142—General Physics II (Electricity and Magnetism) (4)^c

OR

PHYS 105—Introductory Physics I—Lecture (4)^{cd}

PHYS 106—Introductory Physics I—Laboratory (1)^{cd}

PHYS 107—Introductory Physics II—Lecture (4)^{cd}

PHYS 108—Introductory Physics II—Laboratory (1)^{cd}

PHYS 215—Mathematical Methods for Physicists 4

PHYS 244—General Physics III (Modern Physics) 3

PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) 4

PHYS 401—Electromagnetism I 4

PHYS 411—Quantum Mechanics I 4

PHYS 441—Theoretical Mechanics 4

PHYS 461—Thermal and Statistical Physics 4

One of the following courses: 4–5

PHYS 425—Modern Optics (5)

PHYS 482—Modern Experimental Physics II (4)

One of the following courses: 4

PHYS 402—Electromagnetism II (4)^e

PHYS 412—Quantum Mechanics II (4)^e

PHYS 481—Modern Experimental Physics I^f 4

PHYS 499—Survey of Physics Problems^g 1

Electives 6–25

Minimum Total Hours—Requirements for the Curriculum 120

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c This course is approved for the Analyzing the Natural World General Education category.

^d Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

^e Students planning to pursue graduate studies in physics are strongly encouraged to take both of these courses.

^f PHYS 481 fulfills the LAS Writing-in-the-Discipline requirement.

^g A grade of C or better is required in PHYS 499.

Recommended Plan of Study—BS in Physics

Physics is a discipline that carefully builds additional knowledge on a foundation of previously learned science and mathematics. To complete the physics curriculum in four years, therefore, requires careful planning, especially because the upper-division courses are offered at most once per year and have prerequisites. A recommended typical course sequence for the BS degree is given below. (The BA program omits PHYS 425 or 482; and PHYS 402 or 412).

Note: Students should consult the *General Education* section of the catalog for a list of approved courses in each category.

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| CHEM 112—General College Chemistry I | 5 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| MATH 180—Calculus I | 5 |
| General Education Core course | 3 |
| Total Hours | 16 |

| Spring Semester | Hours |
|--|--------------|
| CHEM 114—General College Chemistry II | 5 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| MATH 181—Calculus II | 5 |
| PHYS 141—General Physics I (Mechanics) ^a | |
| OR | |
| PHYS 105/106—Introductory Physics I—Lecture/Lab | 4–5 |
| Total Hours | 17–18 |

Sophomore Year

| Fall Semester | Hours |
|--|--------------|
| Elective | 3 |
| MATH 210—Calculus III | 3 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^a | |
| OR | |
| PHYS 107/108—Introductory Physics II—Lecture/Lab | 4–5 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Total Hours | 16–17 |

| Spring Semester | Hours |
|--|-----------|
| MATH 220—Introduction to Differential Equations I | 3 |
| PHYS 215—Mathematical Methods for Physicists | 4 |
| PHYS 244—General Physics III (Modern Physics) | 3 |
| PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena) | 4 |
| Total Hours | 14 |

Junior Year

| Fall Semester | Hours |
|--|-----------|
| Foreign language | 4 |
| PHYS 411—Quantum Mechanics I | 4 |
| PHYS 441—Theoretical Mechanics | 4 |
| PHYS 481—Modern Experimental Physics I | 4 |
| Total Hours | 16 |

| Spring Semester | Hours |
|-------------------------------|-----------|
| Foreign language | 4 |
| PHYS 412—Quantum Mechanics II | 4 |
| General Education Core course | 3 |
| General Education Core course | 3 |
| Total Hours | 14 |

Senior Year

| Fall Semester | Hours |
|----------------------------------|-----------|
| PHYS 401—Electromagnetism I | 4 |
| PHYS 461—Thermal and Statistical | 4 |
| Foreign language | 4 |
| Elective | 3 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|--------------|
| PHYS 402—Electromagnetism II | |
| OR | |
| Elective | 4 |
| PHYS 425—Modern Optics | |
| OR | |
| PHYS 482—Modern Experimental Physics II | 4–5 |
| PHYS 499—Survey of Physics Problems | 1 |
| Elective | 4 |
| Foreign language | 4 |
| Total Hours | 17–18 |

^a The PHYS 141–142 sequence is strongly recommended.

Students who are not prepared to begin Mathematics 180 in their first semester may need to attend summer school or possibly take more than four years to finish their BS degree.

In addition to the degree programs shown above, there is an Engineering Physics program available through the College of Engineering.

Distinction

Departmental Distinction. Distinction in physics is awarded to students who achieve college honors and an overall minimum GPA of 3.50/4.00 in upper-division physics (400-level) and mathematics (300-level and above) courses.

Students who qualify for departmental distinction are recommended for high or highest distinction on the basis of grade point average and/or high performance in PHYS 391—Physics Seminar or PHYS 392—Physics Research, described as follows.

High Distinction. A minimum overall GPA of 3.70/4.00 in upper-division physics and mathematics courses or a minimum overall GPA of 3.50/4.00 in upper-division physics and mathematics courses and high performance in PHYS 391 or 392, as judged by the instructor of the course.

Highest Distinction. A minimum overall GPA of 3.80/4.00 in upper-division physics and mathematics courses or a minimum overall GPA of 3.70/4.00 in upper-division physics and mathematics courses and high performance in PHYS 391 or 392, as judged by the instructor of the course.

**DEPARTMENT OF
POLITICAL SCIENCE**

1102 Behavioral Science Building (BSB)

(312) 996-3105

balbus@uic.edu

<http://www.uic.edu/depts/pols>

Administration: Head, Dick Simpson

Director of Undergraduate Studies, Isaac Balbus

Political science is the systematic study of politics and its connection to human life as a whole. It focuses on the way people are governed and govern themselves in a wide variety of settings—including the state, the workplace, schools,

and the family—and the way in which governance in those settings affects their life chances and shapes their sense of self. Students who elect this major examine, among other things, the relationships between law and political institutions, economic and political power, and culture and political identity. They develop the analytical, interpretive, and critical methods necessary to understand these relationships at local, national, regional, or international levels, and thus, to act as responsible citizens at those levels. They also learn to write well. In short, political science is central to a well-rounded liberal arts education.

Political science also provides excellent preparation for careers in law, government, teaching, journalism, business, and the nonprofit sector.

BA with a Major in Political Science

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Political Science degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Political Science Degree Requirements | Hours |
|---|------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in Political Science | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|-----------|
| POLS 101—Introduction to American Government and Politics ^{ab} | 3 |
| POLS 190—Scope of Political Science ^a | 3 |
| POLS 200—Methods of Political Science | 3 |
| Two courses from the following:^c | 6 |
| POLS 120—Introduction to Political Theory (3) | |
| POLS 130—Introduction to Comparative Politics (3) | |
| POLS 184—Introduction to International Relations (3) | |
| One course from the following: | 3 |
| POLS 329—Seminar on American Politics (3) ^d | |
| POLS 349—Topics in Comparative Politics (3) ^d | |
| POLS 389—Seminar: Topics in International Relations (3) ^d | |
| POLS 399—Seminar in Political Theory (3) ^d | |
| Three additional political science courses at the 200-level (or above) and two additional political science courses at the 300-level (or above) ^e | 15 |
| Total Hours—Major Requirements | 33 |

^a This course is approved for the Understanding the Individual and Society General Education category.

^b This course is approved for the Understanding U.S. Society General Education category.

^c Students should consult the General Education section of the catalog to determine if any of these courses are approved General Education courses.

^d Any of these courses may be used to fulfill the Writing-in-the-Discipline requirement.

^e Not including POLS 305.

Transfer courses in political science must have grades of C or better to count toward the major or minor.

The Department of Political Science offers a Concentration in Urban Politics that is satisfied in the following way:

1. Completing the regular requirements for the major in Political Science
2. Completing, among the required number of electives in the major, three courses in urban politics, including:
 - POLS 210—Introduction to Urban Politics **OR**
 - POLS 211—Chicago's Future,
 - POLS 301—Field Experience in Political Science, **AND**
 - One additional course at the 300-level other than POLS 303.

Note: At the discretion of the director of undergraduate studies, students may substitute a course from another department for one of their three courses in urban politics.

Recommended Plan of Study

To view a recommended plan of study for the major in Political Science, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Political Science

Students from other disciplines who want to minor in Political Science must complete 21 credit hours as outlined below:

| Required Courses—Political Science Minor | Hours |
|---|-----------|
| POLS 101—Introduction to American Government and Politics | 3 |
| POLS 190—Scope of Political Science | 3 |
| POLS 200—Methods of Political Science | 3 |
| One course from the following: | 3 |
| POLS 120—Introduction to Political Theory (3) | |
| POLS 130—Introduction to Comparative Politics (3) | |
| POLS 184—Introduction to International Relations (3) | |
| Three additional POLS courses, at least one of which must be at the 300-level or above | 9 |
| Total Hours—Political Science Minor | 21 |

Distinction

To be considered for graduation with Distinction in political science, a student must have a minimum, cumulative UIC GPA of 3.25/4.00 and a minimum GPA of 3.50/4.00 in all political science courses. Students with the required grade point averages must write and present to a faculty examining committee of the department an acceptable essay while enrolled in POLS 305—Honors Course and defend it before that committee. The student must enroll in POLS 305 for 3 semester hours in each of the fall and spring semesters of the student's senior year. Both the course and credit hours must be in addition to those required for the major. The level of distinction (Distinction, High Distinction, Highest Distinction) is determined by the department faculty, who will consider the recommendation of the faculty examining committee and the candidate's GPA.

DEPARTMENT OF PSYCHOLOGY

1009 Behavioral Sciences Building (BSB)
(312) 996-3036

<http://www3.psych.uic.edu/>

Administration: Chairperson of the Department, Professor
Gary E. Raney

Director of Undergraduate Studies, Professor Dina
Birman, dbirman@uic.edu

Introduction

Students interested in an education that emphasizes an understanding of human behavior should consider a major in psychology. Psychology as a major/minor can lead to a broad range of career possibilities. An education that focuses on behavior principles is valuable for anyone whose future involves interacting with others.

Psychologists pursue careers in such areas as clinical services, health services, business, industry, testing, education, and behavioral research. There are plenty of career opportunities for students with a bachelor's degree in psychology, particularly in the areas of social work, healthcare, business, and human resources. Career opportunities in some specializations may require a master's degree, while career opportunities in others require a doctorate. Therefore, students should take time to examine their own interests, values, and goals in addition to job requirements and career options in their area of interest before embarking on an educational journey in psychology.

The Department of Psychology offers programs leading to the Bachelor of Arts with a Major in Psychology. A student has the option of completing a General or Applied Psychology concentration. Students may graduate with departmental distinction in either program. Both concentrations require students to take an introductory course in psychology, as well as courses in research methods and statistics.

The General Psychology concentration is appropriate for students who want to emphasize psychology within the context of a general liberal arts education. This concentration provides students with a strong base of knowledge for understanding the theories and scientific method of psychology. Many students choose this concentration when they are considering continuing their education beyond the bachelor's level, but students go to graduate school from either concentration.

The Applied Psychology concentration is designed to give a student not only a strong base in the core curriculum of psychology, but also an opportunity to gain hands-on experience in the field. Students in the Applied Psychology concentration take an additional 8 credit hours as described below.

Students may graduate with Distinction or High Distinction in either the Applied or General concentrations. Students who are considering attending graduate school should consider following the program for majoring with Distinction or High Distinction. See below for details.

BA with a Major in Psychology

Majors in Psychology must complete a concentration in either General Psychology or Applied Psychology.

Preparatory Courses

Students may declare a major in Psychology at any time. The first courses students should complete are the following preparatory courses, which are prerequisites for enrollment in many upper-level psychology courses.

Courses

PSCH 100—Introduction to Psychology^a

PSCH 242—Introduction to Research in Psychology

ENGL 161—Academic Writing II: Writing for Inquiry and Research

One of the following courses:

MATH 090—Intermediate Algebra

MATH 118—Mathematical Reasoning (or the equivalent or higher)

^a This course is approved for the Understanding the Individual and Society General Education category.

Students must earn a minimum 2.40/4.00 GPA in these courses AND receive a grade of C or higher in each of the four courses. Students who do not meet these requirements will be put on probation in the major. To be reinstated to full status in the major, students must (a) retake the course(s) in which they scored less than a C and earn a C or higher in that course(s), and (b) if that does not raise their GPA in the 4 preparatory courses to 2.40, students must also complete two other psychology courses at UIC and earn a 3.00/4.00 GPA. Students must complete those two additional courses within one semester of being notified that they are on probation. If a student has completed additional psychology courses while taking the four required preparatory courses, those additional courses will be counted in the calculation of the GPA to remove the student from probation.

Degree Requirements—General Psychology Concentration

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Psychology degree requirements for the General Psychology Concentration are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Psychology—General Psychology Concentration Degree Requirements | Hours |
|--|------------|
| Major Requirements | 28 |
| General Education and Electives to reach Minimum Total Hours | 92 |
| Minimum Total Hours—BA with a Major in Psychology— General Psychology Concentration | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|----------|
| PSCH 100—Introduction to Psychology ^a | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| PSCH 343—Statistical Methods in Behavioral Science ^b | 4 |
| At least one from the following to fulfill Writing-in-the-Discipline requirement: | 3 |
| PSCH 313—Laboratory in Social Psychology (3) | |
| PSCH 321—Laboratory in Developmental Psychology (3) | |
| PSCH 331—Laboratory in Community and Prevention Research (3) | |
| PSCH 351—Laboratory in Perception (3) | |
| PSCH 353—Laboratory in Cognition and Memory (3) | |
| PSCH 361—Laboratory in Learning and Conditioning (3) | |
| PSCH 363—Laboratory in Physiological Psychology (3) | |

At least one of the following courses in addition to the course taken to fulfill the Writing-in-the-Discipline requirement:

| | |
|--|---|
| PSCH 262—Physiological Psychology (3) | 3 |
| PSCH 350—Sensation and Perception (3) | |
| PSCH 351—Laboratory in Perception (3) | |
| PSCH 352—Cognition and Memory (3) | |
| PSCH 353—Laboratory in Cognition and Memory (3) | |
| PSCH 360—Learning and Conditioning (3) | |
| PSCH 361—Laboratory in Learning and Conditioning (3) | |
| PSCH 363—Laboratory in Physiological Psychology (3) | |

At least one of the following courses in addition to the course taken to fulfill the Writing-in-the-Discipline requirement:^c

| | |
|--|---|
| PSCH 210—Theories of Personality (3) | 3 |
| PSCH 231—Community Psychology (3) | |
| PSCH 270—Abnormal Psychology (3) | |
| PSCH 312—Social Psychology (3) | |
| PSCH 313—Laboratory in Social Psychology (3) | |
| PSCH 320—Developmental Psychology (3) | |
| PSCH 321—Laboratory in Developmental Psychology (3) | |
| PSCH 331—Laboratory in Community and Prevention Research (3) | |

Additional psychology courses for minimum of 28 semester hours

Total Hours—Major Requirements 28

^a This course is approved for the Understanding the Individual and Society General Education category.

^b PSCH 343 fulfills the LAS Quantitative Reasoning requirement.

^c Students should consult the General Education section of the catalog to determine which of these courses are approved General Education courses.

Recommended Plan of Study

To view a recommended plan of study for the major in General Psychology, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Degree Requirements—Applied Psychology Concentration

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Psychology degree requirements for the Applied Psychology Concentration are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Psychology—Applied Psychology Concentration Degree Requirements | | Hours |
|---|--|------------|
| Major Requirements | | 36 |
| General Education and Electives to reach Minimum Total Hours | | 84 |
| Minimum Total Hours—BA with a Major in Psychology—Applied Psychology Concentration | | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| PSCH 100—Introduction to Psychology ^a | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| PSCH 340—Psychological Testing | 3 |
| PSCH 343—Statistical Methods in Behavioral Science ^b | 4 |
| PSCH 385—Field Work in Applied Psychology ^c | 3 |

At least one of the following courses:

| | |
|--|---|
| PSCH 262—Physiological Psychology (3) | 3 |
| PSCH 350—Sensation and Perception (3) | |
| PSCH 351—Laboratory in Perception (3) | |
| PSCH 352—Cognition and Memory (3) | |
| PSCH 353—Laboratory in Cognition and Memory (3) | |
| PSCH 360—Learning and Conditioning (3) | |
| PSCH 361—Laboratory in Learning and Conditioning (3) | |
| PSCH 363—Laboratory in Physiological Psychology (3) | |

At least one of the following courses:^d

| | |
|--|---|
| PSCH 210—Theories of Personality (3) | 3 |
| PSCH 231—Community Psychology (3) | |
| PSCH 270—Abnormal Psychology (3) | |
| PSCH 312—Social Psychology (3) | |
| PSCH 313—Laboratory in Social Psychology (3) | |
| PSCH 320—Developmental Psychology (3) | |
| PSCH 321—Laboratory in Developmental Psychology (3) | |
| PSCH 331—Laboratory in Community and Prevention Research (3) | |

At least one of the following courses:

| | |
|---|---|
| PSCH 330—Industrial and Organizational Psychology (3) | 3 |
| PSCH 381—Psychology of Interviewing (3) | |
| PSCH 382—Psychological Interventions (3) | |
| PSCH 383—Psychology of Groups (3) | |
| PSCH 386—Crisis Counseling Techniques (3) | |

Additional psychology courses for a minimum of 36 semester hours

Total Hours—Major Requirements 36

^a This course is approved for the Understanding the Individual and Society General Education category.

^b PSCH 343 fulfills the LAS Quantitative Reasoning requirement.

^c PSCH 385 fulfills the Writing-in-the-Discipline requirement.

^d Students should consult the General Education section of the catalog to determine which of these courses are approved General Education courses.

Recommended Plan of Study

To view a recommended plan of study for the major in Applied Psychology, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Degree Requirements—Major with Departmental Distinction and Major with High Departmental Distinction

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Psychology degree requirements for a major with Departmental Distinction and for a major with High Departmental Distinction are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

Departmental Distinction. In addition to completing the degree requirements detailed below, the candidate for Departmental Distinction must earn a 3.50/4.00 GPA in psychology courses and a 3.40/4.00 overall GPA. The GPA will be calculated using all of the credits that are being applied to the degree—from UIC and from any transfer institution. The actual awarding of distinction is made when credentials are evaluated for graduation.

High Departmental Distinction. In addition to completing the degree requirements for Departmental Distinction (as

detailed in the paragraph above and the section below), the candidate for High Departmental Distinction must earn a 3.50/4.00 GPA in psychology courses and a 3.40/4.00 overall GPA, and the candidate must complete an independent research project in PSCH 399—Independent Research (3 credits) under the supervision of a faculty advisor. The student's proposal for and final report of the independent research must be reviewed and accepted by the Departmental Honors Committee. The proposal for a high distinction project should be submitted to the director of undergraduate studies by the faculty member supervising the project. The form for proposing this project is available in the Psychology Department Advising Office.

| BA with a Major in Psychology with Departmental Distinction Degree Requirements | Hours |
|--|------------|
| Major Requirements | 28 |
| Required Collateral Courses | 11–15 |
| General Education and Electives to reach Minimum Total Hours | 77–81 |
| Minimum Total Hours—BA with a Major in Psychology with Departmental Distinction | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-----------|
| PSCH 100—Introduction to Psychology ^a | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| PSCH 343—Statistical Methods in Behavioral Science ^b | 4 |
| At least one of the following courses: | 3 |
| PSCH 262—Physiological Psychology (3) | |
| PSCH 350—Sensation and Perception (3) | |
| PSCH 352—Cognition and Memory (3) | |
| PSCH 360—Learning and Conditioning (3) | |
| At least one of the following courses:^c | 3 |
| PSCH 210—Theories of Personality (3) | |
| PSCH 270—Abnormal Psychology (3) | |
| PSCH 312—Social Psychology (3) | |
| PSCH 320—Developmental Psychology (3) | |
| At least two from the following:^d | 6 |
| PSCH 313—Laboratory in Social Psychology (3) ^e | |
| PSCH 321—Laboratory in Developmental Psychology (3) ^e | |
| PSCH 331—Laboratory in Community and Prevention Research (3) ^e | |
| PSCH 351—Laboratory in Perception (3) ^e | |
| PSCH 353—Laboratory in Cognition and Memory (3) ^e | |
| PSCH 361—Laboratory in Learning and Conditioning (3) ^e | |
| PSCH 363—Laboratory in Physiological Psychology (3) ^e | |
| Additional psychology courses for minimum of 28 semester hours | 5 |
| Total Hours—Major Requirements | 28 |

^a This course is approved for the *Understanding the Individual and Society General Education* category.

^b PSCH 343 fulfills the LAS Quantitative Reasoning requirement.

^c Students should consult the General Education section of the catalog to determine if any of these courses are approved General Education courses.

^d PSCH 399—Independent Study, if taken for 3 semester hours, may be substituted for one of the two required laboratory courses for distinction.

^e Fulfills the *Writing-in-the-Discipline* requirement.

Required Collateral Courses

| Courses | Hours |
|---|--------------|
| One of the following courses: | 3–5 |
| MATH 150—Finite Mathematics (3) ^a | |
| MATH 180—Calculus I (5) ^a | |
| Two semesters of laboratory courses in biological sciences, chemistry, earth and environmental sciences, or physics | 8–10 |
| Total Hours—Required Collateral Courses | 11–15 |

^a This course is approved for the *Analyzing the Natural World General Education* category.

Recommended Plan of Study

To view a recommended plan of study for the Major with Departmental Distinction, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Psychology

Students may also minor in Psychology. A minor is structured very much like the General Psychology major, except that fewer courses are required. A Psychology minor can be beneficial to anyone who values a basic understanding of behavior. Students from other disciplines who want to minor in Psychology must take a total of 18 hours distributed as follows.

| Required Courses—Psychology Minor | Hours |
|--|-----------|
| PSCH 100—Introduction to Psychology | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| Additional psychology courses at the 200-level or above for a minimum of 18 semester hours | 11 |
| Total Hours—Psychology Minor | 18 |

RELIGIOUS STUDIES

411 University Hall (UH)

nealg@uic.edu

Administration: Committee Chair, Neal Grossman

Minor in Religious Studies

The Minor in Religious Studies enables students to be introduced to the academic study of religion from the perspective of the social sciences and humanities. Students are encouraged to develop their plan of study in consultation with a faculty advisor in Religious Studies. Any changes must be approved by the advisor.

Requirements for the Minor

Students wishing to minor in Religious Studies must complete 18 semester hours, including at least 9 semester hours above the 100-level, from the list of courses approved by the Religious Studies Committee.

| Required Courses—Religious Studies Minor | Hours |
|--|-----------|
| Two courses from the following: | 6 |
| CST/RELS 120—Catholic Thought: An Introduction (3) | |
| RELS 130—Introduction to Islam (3) | |
| JST 101—Introduction to Jewish Studies: Literature and Society (3) | |
| OR | |
| JST 102—Introduction to Jewish Studies: Religion and Culture (3) | |
| Four additional courses chosen in consultation with an advisor | 12 |
| Total Hours—Religious Studies Minor | 18 |

Courses Approved for the Minor in Religious Studies

The following courses are approved for a minor in Religious Studies. Students select from this list with the approval of their advisor in Religious Studies.

| Courses | Hours |
|--|-------|
| African American Studies (AAST) | |
| 120—African American Religious Traditions | 3 |
| 445—History of Islam in the African World <i>Same as HIST 445</i> | 3 |
| Anthropology (ANTH) | |
| 215—Non-Western Religions | 3 |
| 271—American Indian Religion and Philosophy | 3 |
| Art History (AH) | |
| 221—History of Medieval Architecture | 3 |
| 242—Medieval Art and Architecture I | 3 |
| 243—Medieval Art and Architecture II | 3 |
| Catholic Studies (CST) | |
| 120—Catholic Thought: An Introduction <i>Same as RELS 120</i> | 3 |
| 150—Catholicism in U.S. History <i>Same as HIST 150, RELS 150</i> | 3 |
| 294—Topics in Catholic History <i>Same as HIST 294, RELS 294</i> | 3 |
| 394—Topics in Catholic History and Culture <i>Same as RELS 394</i> | 3 |
| Classics and Mediterranean Studies (CL) | |
| 207—Greek Temples and Festivals <i>Same as HIST 201</i> | 3 |
| 208—Greek Mythology | 3 |
| English (ENGL) | |
| 115—Understanding the Bible as Literature <i>Same as JST 115, RELS 115</i> | 3 |
| 478—The Bible as Literature <i>Same as JST 478</i> | 3 |
| 479—Religion and Literature | 3 |
| History (HIST) | |
| 150—Catholicism in U.S. History <i>Same as CST 150, RELS 150</i> | 3 |
| 256—The American Religious Experience | 3 |
| 294—Topics in Catholic History <i>Same as CST 294, RELS 294</i> | 3 |
| 495—Topics in Religious History | 3 |
| Jewish Studies (JST) | |
| 101—Introduction to Jewish Studies: Literature and Society | 3 |
| 102—Introduction to Jewish Studies: Religion and Culture | 3 |
| 115—Understanding the Bible as Literature <i>Same as ENGL 115, RELS 115</i> | 3 |
| 478—The Bible as Literature <i>Same as ENGL 478</i> | 3 |
| Music (MUS) | |
| 230—Music History I (Middle Ages and Renaissance) | 3 |
| Philosophy (PHIL) | |
| 115—Death | 3 |
| 241—Philosophy of Religion | 3 |
| 422—Medieval Philosophy | 3 |
| 441—Topics in Philosophy of Religion | 3 |
| Religious Studies (RELS) | |
| 115—Understanding the Bible as Literature <i>Same as ENGL 115, JST 115</i> | 3 |
| 120—Catholic Thought: An Introduction <i>Same as CST 120</i> | 3 |

| | |
|---|---|
| 130—Intro to Islam | 3 |
| 150—Catholicism in U.S. History <i>Same as CST 150, HIST 150</i> | 3 |
| 250—Eastern and Western Philosophies of Religion | 3 |
| 255—Religious Diversity | 3 |
| 256—Religious Experiences in American History <i>Same as HIST 256</i> | 3 |
| 294—Topics in Catholic History <i>Same as CST 294, HIST 294</i> | 3 |
| 320—Major Thinkers in Religious Studies | 3 |
| 392—Major Problems in Religious Studies | 3 |
| 394—Topics in Catholic History and Culture <i>Same as CST 394</i> | 3 |
| 446—Race, Ethnicity, and Gender in American Religion <i>Same as SOC 446</i> | 3 |
| 495—Topics in Religious History <i>Same as HIST 495</i> | 3 |
| Sociology (SOC) | |
| 246—The Sociology of Religion | 3 |
| 446—Race, Ethnicity, and Gender in American Religion <i>Same as RELS 446</i> | 3 |

DEPARTMENT OF SLAVIC AND BALTIC LANGUAGES AND LITERATURES

1628 University Hall (UH)
(312) 996-4412

<http://www.uic.edu/depts/slav>

Administration: Interim Head, John Huntington
Director of Undergraduate Studies, Alex Kurczaba,
kurczaba@uic.edu

There is an Endowed Chair of Lithuanian Studies in the department, established by the Lithuanian World Community Foundation.

The Department of Slavic and Baltic Languages and Literatures offers courses at the elementary, intermediate, and advanced levels. The undergraduate program provides the opportunity to develop skills in understanding, speaking, reading, and writing Polish, Russian, and Lithuanian and enables students to engage the languages, literatures, and cultures of the peoples of Central and Eastern Europe.

A major or minor in Russian or Polish or a minor in Lithuanian prepares students for informed global citizenship and for a variety of occupations, including teaching, translation, international business, the tourist industry, human resources, government, and journalism.

BA with a Major in Russian

Degree Requirements—Russian

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Slavic and Baltic Languages and Literatures degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Russian Degree Requirements | Hours |
|---|------------|
| Major Requirements | 36 |
| General Education and Electives to reach Minimum Total Hours | 84 |
| Minimum Total Hours—BA with a Major in Russian | 120 |

General Education

See *General Education* and *Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|-----------|
| RUSS 301—Russian Composition and Conversation I | 3 |
| RUSS 302—Russian Composition and Conversation II | 3 |
| RUSS 321—Introduction to Russian Literature I | 3 |
| RUSS 322—Introduction to Russian Literature II | 3 |
| SLAV 324—Writing About Literature ^a | 3 |
| RUSS 401—Russian Composition and Conversation III | 3 |
| RUSS 402—Russian Composition and Conversation IV | 3 |
| One of the following courses: | 3 |
| SLAV 405—Problems in Slavic Grammars (3) | |
| RUSS 410—Structure of Modern Russian (3) | |
| Four Russian electives at the 200-, 300-, and 400-level, exclusive of independent study, and of which at least two courses must be at the 400-level. | 12 |
| Total Hours—Major Requirements | 36 |

^a SLAV 324 fulfills the *Writing-in-the-Discipline* requirement.

Recommended Plan of Study

To view a recommended plan of study for the major in Russian, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Russian

Students who have satisfied the college language requirement in Russian must complete 15 semester hours at the 200-, 300-, and 400-levels.

Students who have not satisfied the college language requirement in Russian must complete Russian 104 or demonstrate equivalent competence, and must complete 15 semester hours at the 200-, 300-, and 400-level.

BA with a Major in Polish**Degree Requirements—Polish**

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Slavic and Baltic Languages and Literatures degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Polish Degree Requirements | Hours |
|---|------------|
| Major Requirements | 36 |
| General Education and Electives to reach Minimum Total Hours | 84 |
| Minimum Total Hours—BA with a Major in Polish | 120 |

General Education

See *General Education* and *Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|-------|
| POL 301—Polish Composition and Conversation I | 3 |
| POL 302—Polish Composition and Conversation II | 3 |
| POL 321—Introduction to Polish Literature I | 3 |
| POL 322—Introduction to Polish Literature II | 3 |

| | |
|--|-----------|
| SLAV 324—Writing About Literature ^a | 3 |
| POL 401—Polish Composition and Conversation III | 3 |
| POL 402—Polish Composition and Conversation IV | 3 |
| One of the following courses: | 3 |
| SLAV 405—Problems in Slavic Grammars (3) | |
| POL 410—Structure of Modern Polish (3) | |
| Four Polish electives at the 200-, 300-, and 400-level, excluding independent study, and of which at least 2 courses must beat the 400-level | 12 |
| Total Hours—Major Requirements | 36 |

^a SLAV 324 fulfills the *Writing-in-the-Discipline* requirement.

Recommended Plan of Study

To view a recommended plan of study for the major in Polish, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Polish

Students who have satisfied the college language requirement in Polish must complete 15 semester hours at the 200-, 300-, and 400-levels.

Students who have not satisfied the college language requirement in Polish must complete Polish 104 or demonstrate equivalent competence, and must complete 15 semester hours at the 200-, 300-, and 400-levels.

Minor in Lithuanian Studies

Students who have satisfied the college language requirement in Lithuanian must complete 15 semester hours at the 200-, 300-, and 400-levels.

Students who have not satisfied the college language requirement in Lithuanian must complete Lithuanian 104 or demonstrate equivalent competence, and must complete 15 semester hours at the 200-, 300-, and 400-levels.

Distinction

Departmental Distinction requires a 3.50/4.00 GPA in all department lower-division courses and a 3.75/4.00 GPA in all department upper-division courses taken.

DEPARTMENT OF SOCIOLOGY

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Administrative Assistant: Teri Williams

Student Services: Undergraduate Secretary, Olga Padilla

Academic Advisor: Amanda Stewart

Sociology is the study of social life, including individuals, groups, organizations, institutions, and societies. Sociologists investigate the social causes and consequences of human behavior and interaction, such as inequality, poverty, discrimination, and urbanization. While offering a general sociology curriculum, the program specializes in the study of race, ethnicity, and gender; work, organizations, and the economy; and urban sociology. Students majoring in Sociology will gain an understanding of, and the ability to use, key sociological theories, methodologies, and analytical skills in building sociological knowledge.

A major in Sociology will prepare students to undertake graduate studies in sociology, and other fields such as other social sciences, social work, law, urban planning, and public health. It is also an excellent preparation for a wide

variety of occupations in business and industry, the justice system, community and social services, government, education, social justice, and research.

BA with a Major in Sociology

The Department of Sociology offers programs leading to the Bachelor of Arts with a Major in Sociology. Students are encouraged to follow a general sociology curriculum or to specialize in race, ethnicity, and gender; work, organizations, and the economy; or urban studies. A minor in Sociology is also offered.

Degree Requirements

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Sociology degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Sociology Degree Requirements | Hours |
|---|------------|
| Major Requirements | 33 |
| General Education and Electives to reach Minimum Total Hours | 87 |
| Minimum Total Hours—BA with a Major in Sociology | 120 |

General Education

See *General Education* and *Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-----------|
| One course from the following: | 3 |
| SOC 100—Introduction to Sociology (3) ^{ab} | |
| SOC 105—Social Problems (3) ^{ab} | |
| SOC 201—Introductory Sociological Statistics ^c | 4 |
| Three additional 200-level courses ^d | 9 |
| SOC 300—Introduction to Sociological Research Methods | 4 |
| SOC 385—Introduction to Sociological Theory ^e | 3 |
| SOC 490—Senior Research Experience ^f | 4 |
| Two additional 400-level courses ^d | 6 |
| Total Hours—Major Requirements | 33 |

^a This course is approved for the Understanding the Individual and Society General Education category.

^b This course is approved for the Understanding U.S. Society General Education category.

^c SOC 201 also fulfills the LAS Quantitative Reasoning requirement.

^d Independent study courses (SOC 296, 298, 496, 499) can be taken for up to 8 hours of credit, but only 3 hours of 296 and 298 and 3 hours of 496 and 499 can count toward the required elective credit at the 200- and 400-level respectively.

^e SOC 385 fulfills the Writing-in-the-Discipline requirement.

^f SOC 490 can be repeated with departmental approval and, when taken a second time, will count as one of the two 400-level electives required for the major.

Recommended Plan of Study

To view a recommended plan of study for the major in Sociology, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Sociology

Students from other disciplines who want to minor in Sociology must complete 15 semester hours as outlined below.

| Required Courses—Sociology Minor | Hours |
|--|-----------|
| One course from the following: | 3 |
| SOC 100—Introduction to Sociology (3) | |
| SOC 105—Social Problems (3) | |
| Three courses at the 200- or 300-level | 9 |
| One course at the 400-level | 3 |
| Total Hours—Sociology Minor | 15 |

Distinction

To be considered for Distinction, students must obtain a 3.00/4.00 overall GPA, plus the following:

- 3.50/4.00 GPA in the major for Distinction;
- 3.75/4.00 GPA in the major for High Distinction;
- 3.75/4.00 GPA in the major, SOC 499, and completion of a senior thesis for Highest Distinction.

Note: The GPA will be calculated using all of the credits that are being applied to the degree—from UIC and from any transfer institution.

Special Programs in Sociology

Research Skills

The Sociology program offers courses in which students can develop their research skills. Students can take courses such as Introductory, Intermediate, and Advanced Statistics, as well as learn about various research methods (such as Ethnography, Survey, Census) in introductory and more advanced research methods courses.

Area of Concentration

The Sociology program offers a general sociology curriculum with an emphasis in the study of race, ethnicity, and gender; work, organizations, and the economy; and urban sociology. Students who want to specialize in any of these areas select relevant courses at the 200- and 400-level.

Course Credit for Paid Work

Cooperative education combines work experience with academic courses. Co-op placement possibilities include a wide range of professional, managerial, and technical positions in firms, not-for-profit organizations, and government agencies.

Independent Study and Research Projects

Students can gain research experience by working with a faculty member on an ongoing research project or conducting their own independent research project. Students who want to graduate with the Highest Departmental Distinction must complete SOC 499 and write a senior thesis based on a research project.

Preprofessional Preparation

Majoring in Sociology can provide students with an excellent preparation for admission to professional and graduate programs in medicine, health, law, urban planning, social work, education, and business.

Critical Thinking and Communication

Sociology develops skills in analyzing, synthesizing, generalizing, and communicating information and knowledge. Courses stress both logical and data analysis as well as careful and thoughtful reading, discussion, and writing. Sociology's subject matter includes relationships among economic, political, cultural, and social factors and explores the impact of physical and biological forces on individuals and society. This inclusive framework and general training lies at the heart of a liberal education for lifetime learning.

DEPARTMENT OF SPANISH, FRENCH, ITALIAN, AND PORTUGUESE

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The formal study of Spanish, French, and Italian consists of courses in language at the basic, intermediate, and advanced levels, as well as courses in the literature and culture of the countries where these languages are spoken. The Spanish French, and Italian majors/minors expose students to innovative critical and theoretical approaches to literary, cultural, and Hispanic linguistic studies, thereby providing a solid foundation for advanced and postgraduate studies. Teacher education forms an integral part of the department's offerings in Spanish and French. The study of Spanish, French, and Italian also provides students interested in careers, such as business, law, criminal justice, industry, social, services, and health-related fields, with an edge in their professional training, supporting proficiency in areas such as critical thinking, analytical ability, and language skills.

The curriculum in Spanish-Economics gives students a strong grounding in the analytical tools of economics, an understanding of how the national and global economies operate, and both written and oral fluency in the Spanish language, with particular emphasis on the integration of the two disciplines.

The Department of Spanish, French, Italian, and Portuguese offers programs leading to the Bachelor of Arts with majors in Spanish and French, as well as the Bachelor of Arts in the Teaching of Spanish and Teaching of French. Minors are also offered in Spanish, French, Italian, and the Teaching of Spanish and Teaching of French.

BA with a Major in Spanish

Degree Requirements—Major in Spanish

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Spanish and French degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Spanish Degree Requirements | Hours |
|---|------------|
| Major Requirements | 32 |
| General Education and Electives to reach Minimum Total Hours | 88 |
| Minimum Total Hours—BA with a Major in Spanish | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-------|
| SPAN 202—Spanish Grammar in Practice | 3 |
| One of the following courses: | 3 |
| SPAN 203—Extensive Reading and Writing for Nonnative Speakers of Spanish (3) | |
| SPAN 204—Extensive Reading and Writing for Heritage Speakers of Spanish (3) | |
| SPAN 206—Introduction to Hispanic Linguistics ^a | 4 |
| SPAN 210—Introduction to the Formal Analysis of Hispanic Tests ^{bc} | 3 |
| SPAN 212—Cultural and Literary Studies in Spain and Latin America ^a | 4 |
| SPAN 303—Advanced Oral Presentation, Writing, and Analysis | 3 |
| SPAN 380—Professional Development | 0 |

In addition, students must choose one of the following concentrations: 12

Concentration I: Hispanic Studies (12)

Four courses from the 200-, 300-, or 400-levels. A maximum of two of these courses can be taken at the 200-level. Only one of the following courses can be counted toward these credit hours:

| |
|---|
| SPAN 224—Bilingual/Bicultural Hispanic American Writers (3) ^d |
| SPAN 225—Spanish and Latin American Culture through Literature and Film (3) ^b |
| SPAN 226—Early Modern and Colonial Literature and Culture in Translation (3) ^{bc} |
| SPAN 278—Latin American/Latino Film Studies (3) |
| SPAN 295—Latino Literary Studies (3) ^d |
| SPAN 495—Topics in Latino Community Studies (3) |

Concentration II: Hispanic Linguistics (12)

Four topic courses in linguistics from the following:

| |
|--|
| SPAN 361—The Structure of Spanish (3) |
| SPAN 362—Sounds of Spanish (3) |
| SPAN 363—Spanish in Society (3) |
| SPAN 364—Acquisition of Spanish (3) |
| SPAN 365—Meaning in Language (3) |
| SPAN 366—Current Topics in Spanish Linguistics (3) |
| Or any 400-level course in linguistics (3) |

Concentration III: Hispanic Literatures and Cultural Studies (12)

Three topic courses in literature and culture from the following:

| |
|--|
| SPAN 375—Current Topics in Hispanic Studies (3) |
| SPAN 376—Topics in Politics, Economy, and Law in Hispanic Culture (3) |
| SPAN 377—Topics in Health, the Psyche, and the Human Body in Hispanic Culture (3) |
| SPAN 378—Topics in Hispanic Cultural and Media Studies (3) |
| SPAN 379—Topics in Cultural Difference and the Politics of Translation (3) |
| One additional 400-level course in literature and culture (3) |

Total Hours—Major Requirements 32

^a SPAN 206 and 212 fulfill the *Writing-in-the-Discipline* requirement.

^b This course is approved for the *Exploring World Cultures General Education* category.

^c This course is approved for the *Understanding the Creative Arts General Education* category.

^d This course is approved for the *Understanding U.S. Society General Education* category.

Recommended Plan of Study

To view a recommended plan of study for the major in Spanish, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Spanish

Students from other disciplines who want to minor in Spanish must complete 20 semester hours as outlined below:

| Required Courses—Spanish Minor | Hours |
|--|-----------|
| SPAN 202—Spanish Grammar in Practice | 3 |
| One of the following courses: | 3 |
| SPAN 203—Extensive Reading and Writing for Nonnative Speakers of Spanish (3) | |
| SPAN 204—Extensive Reading and Writing for Heritage Speakers of Spanish (3) | |
| SPAN 206—Introduction to Hispanic Linguistics | 4 |
| SPAN 210—Introduction to the Formal Analysis of Hispanic Texts | 3 |
| SPAN 212—Cultural and Literary Studies in Spain and Latin America | 4 |
| One additional course at the 300-level | 3 |
| Total Hours—Spanish Minor | 20 |

BA in Spanish-Economics**Degree Requirements—Spanish-Economics**

To earn a Bachelor of Arts in Spanish-Economics degree from UIC, students must complete University, college, and department degree requirements. The Department of Spanish, French, Italian, and Portuguese degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA in Spanish-Economics Degree Requirements | Hours |
|---|------------|
| Requirements for the Curriculum | 120 |
| Total Hours—BA in Spanish-Economics | 120 |

Requirements for the Curriculum

The requirements for the curriculum include courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Analyzing the Natural World laboratory courses ^a | 6–10 |
| One General Education Core course from any category ^a | 3 |
| Elementary and intermediate Spanish—four semesters at the university-level or the equivalent ^b | 0–16 |
| SPAN 202—Spanish Grammar in Practice | 3 |
| One of the following courses: | 3 |
| SPAN 203—Extensive Reading and Writing for Nonnative Speakers of Spanish (3) | |
| SPAN 204—Extensive Reading and Writing for Heritage Speakers of Spanish (3) | |
| SPAN 210—Introduction to the Formal Analysis of Hispanic Texts ^{cd} | 3 |
| SPAN 212—Cultural and Literary Studies in Spain and Latin America ^e | 4 |
| SPAN 220—Spanish for Business and Law I | 3 |

| | |
|--|-----|
| SPAN 303—Advanced Oral Presentation, Writing, and Analysis | 3 |
| SPAN 320—Spanish for Business and Law II | 3 |
| SPAN 376—Topics in Politics, Economy, and Law in Hispanic Culture | 3 |
| SPAN 380—Professional Development | 0 |
| One additional 200- or 300-level SPAN course | 3–4 |
| MATH 160—Finite Mathematics for Business ^f | 5 |
| ECON 120—Principles of Microeconomics ^{gh} | 3 |
| ECON 121—Principles of Macroeconomics ^{gh} | 3 |
| ECON 220—Microeconomics: Theory and Applications | 3 |
| ECON 221—Macroeconomics in the World Economy Theory and Applications | 3 |

Four elective courses in economics at the 200-, 300-, or 400-level (not more than one at the 200-level). At least one course must be chosen from the following list of International/Economic Development courses:

| | |
|--|------------|
| ECON 211—Topics in Economics Taught in Spanish (3) | 12 |
| ECON 333—International Economics (3) | |
| ECON 334—Economic Development (3) | |
| Free electives to bring total number of hours to 120 | 27–48 |
| Total Hours—Requirements for the Curriculum | 120 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b The elementary and intermediate Spanish courses are either 110 or both 101 and 102; 103; 104. Bilingual students take 113 and 114.

^c This course is approved for the Exploring World Cultures General Education category.

^d This course is approved for the Understanding the Creative Arts General Education category.

^e SPAN 212 fulfills the Writing-in-the-Discipline requirement.

^f This course is approved for the Analyzing the Natural World General Education category.

^g This course is approved for the Understanding the Individual and Society General Education category.

^h This course is approved for the Understanding U.S. Society General Education category.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Arts in Spanish-Economics, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

BA in the Teaching of Spanish**Degree Requirements—Teaching of Spanish**

To earn a Bachelor of Arts in the Teaching of Spanish degree from UIC, students must complete University, college, and department degree requirements. The Department of Spanish, French, Italian, and Portuguese degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA in the Teaching of Spanish Degree Requirements | Hours |
|--|------------|
| Major Requirements | 32 |
| Additional Requirements for Teacher Certification | 25 |
| General Education and Electives to reach Minimum Total Hours | 63 |
| Minimum Total Hours—BA in the Teaching of Spanish | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|--|-----------|
| SPAN 202—Spanish Grammar in Practice | 3 |
| One of the following courses: | 3 |
| SPAN 203—Extensive Reading and Writing for Nonnative Speakers of Spanish (3) | |
| SPAN 204—Extensive Reading and Writing for Heritage Speakers of Spanish (3) | |
| SPAN 206—Introduction to Hispanic Linguistics ^a | 4 |
| SPAN 210—Introduction to the Formal Analysis of Hispanic Texts ^{bc} | 3 |
| SPAN 212—Cultural and Literary Studies in Spain and Latin America ^a | 4 |
| SPAN 303—Advanced Oral Presentation, Writing, and Analysis | 3 |
| SPAN 380—Professional Development | 0 |
| SPAN 448—Foundations of Second Language Teaching | 3 |
| SPAN 449—Teaching Second Language Literacy and Cultural Awareness | 3 |
| Two additional courses from among the following: | 6 |
| SPAN 230, 231, 361, 362, 363, 364, 365, 366, 375, 376, 377, 378, 379 | |
| Total Hours—Major Requirements | 32 |

^a SPAN 206 and SPAN 212 fulfill the Writing-in-the-Discipline requirement.

^b This course is approved for the Exploring World Cultures General Education category.

^c This course is approved for the Understanding the Creative Arts General Education category.

Additional Requirements for Teacher Certification

| Courses | Hours |
|--|-----------|
| ED 200—Educational Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | 4 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| SPAN 451—Educational Practice with Seminar I | 6 |
| SPAN 452—Educational Practice with Seminar II | 6 |
| Total Hours—Additional Requirements for Teacher Certification | 25 |

In addition to specified course work in the major field, the teacher education student must fulfill certain other requirements as well as maintain a minimum cumulative GPA of 2.50/4.00 in all LAS and General Education requirements and a GPA of 3.00/4.00 or greater in courses for the Teacher Education in Spanish major including education courses. For detailed information, see the *Program Guide for Teacher Education in Spanish*, available from the secondary education coordinator in the Department of Spanish, French, Italian, and Portuguese.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basic Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed

prior to certification. For information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See *Council on Teacher Education and Secondary Education Program in the College of Education* section of the catalog.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Arts in the Teaching of Spanish, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in the Teaching of Spanish

Secondary education majors from other disciplines who want to minor in the Teaching of Spanish must complete 21 semester hours as outlined below:

| Required Courses—Teaching of Spanish Minor | Hours |
|--|-----------|
| SPAN 202—Spanish Grammar in Practice | 3 |
| One of the following courses: | 3 |
| SPAN 203—Extensive Reading and Writing for Nonnative Speakers of Spanish (3) | |
| SPAN 204—Extensive Reading and Writing for Heritage Speakers of Spanish (3) | |
| SPAN 210—Introduction to the Formal Analysis of Hispanic Texts | 3 |
| One of the following courses: | 3 |
| SPAN 230—Civilization and Culture of Spain (3) | |
| SPAN 231—Civilization and Culture of Spanish America (3) | |
| SPAN 303—Advanced Oral Presentation, Writing, and Analysis | 3 |
| SPAN 448—Foundations of Second Language Teaching | 3 |
| SPAN 449—Teaching Second Language Literacy and Cultural Awareness | 3 |
| Total Hours—Teaching of Spanish Minor | 21 |

Note: If enrolled in the Teaching of French or Teaching of German major, the student must take two SPAN courses at the 200- or 300-level to substitute for SPAN 448 and SPAN 449.

This minor is open only to students obtaining full certification in an approved UIC Teacher Education major. To teach Spanish as a second subject in Illinois public schools one must apply for and receive an Endorsement from the State Board of Education and meet all of the additional course and other requirements the Board has established.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application with the State of Illinois and take an examination administered by the State Board of Education. For information on application procedures, contact the Council on Teacher Education in the College of Education.

Study Abroad Programs—Spanish

The Spanish program strongly encourages all majors to take advantage of the variety of study abroad opportunities in Spanish-speaking countries available to UIC students. A significant portion of the credits for the major in Spanish may be earned through Study Abroad Programs. Majors will be awarded credit hours for courses completed abroad that are equivalent to courses offered at UIC by the Spanish Program. Approval for course equivalencies is required from the Director of Undergraduate Studies for the Spanish Program.

The Spanish program sponsors and highly recommends the several programs. For information on these programs please visit the following Web site: <http://www.uic.edu/depts/sfip/studyabroad.htm>.

For information on other study abroad opportunities please visit the UIC Study Abroad Office at: http://www.uic.edu/depts/spec_prog/studyabroad/.

BA with a Major in French

Degree Requirements—Major in French

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Spanish, French, Italian, and Portuguese degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in French Degree Requirements | Hours |
|---|------------|
| Major Requirements | 36 |
| General Education and Electives to reach Minimum Total Hours | 84 |
| Minimum Total Hours—BA with a Major in French | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-----------|
| FR 200—Introduction to the Study of French Literature and Culture ^{ab} | 3 |
| FR 201—Introduction to the French Literature I ^{ab} | 3 |
| FR 202—Introduction to the French Literature II ^{bc} | 3 |
| FR 231—Conversation and Composition I ^d | 3 |
| FR 232—Conversation and Composition II ^d | 3 |
| FR 301—Topics in French and Francophone Literature | 3 |
| FR 302—Topics in French and Francophone Culture | 3 |
| FR 333—Oral and Written French I | 3 |
| FR 334—Oral and Written French II | 3 |
| FR 390—Senior Seminar: Topics in Research and Writing ^e | 3 |
| Two 400-level electives in literature, civilization, or grammar | 6 |
| Total Hours—Major Requirements | 36 |

^a This course is approved for the Exploring World Cultures General Education category.

^b This course is approved for the Understanding the Creative Arts General Education category.

^c This course is approved for the Understanding the Past General Education category.

^d Fluent French speakers substitute other 200- or 300-level courses for FR 231 and 232.

^e FR 390 fulfills the Writing-in-the-Discipline requirement.

Recommended Plan of Study

To view a recommended plan of study for the major in French, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in French

Students from other disciplines who want to minor in French must complete 18 semester hours as outlined below:

| Required Courses—French Minor | Hours |
|---|-------|
| FR 200—Introduction to the Study of French Literature and Culture | 3 |
| FR 201—Introduction to the French Literature I | 3 |

| | |
|---|-----------|
| FR 202—Introduction to the French Literature II | 3 |
| FR 231—Conversation and Composition I ^a | 3 |
| FR 232—Conversation and Composition II ^a | 3 |
| One elective at the 300-level | 3 |
| Total Hours—French Minor | 18 |

^a Fluent French speakers substitute other 200- or 300-level courses for FR 231 and 232.

BA in the Teaching of French

Degree Requirements—Teaching of French

To earn a Bachelor of Arts in the Teaching of French degree from UIC, students must complete University, college, and department degree requirements. The Department of Spanish, French, Italian, and Portuguese degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA in the Teaching of French Degree Requirements | Hours |
|---|------------|
| Major Requirements | 39 |
| Additional Requirements for Teacher Certification | 25 |
| General Education and Electives to reach Minimum Total Hours | 56 |
| Minimum Total Hours—BA in the Teaching of French | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

| Courses | Hours |
|---|-----------|
| FR 200—Introduction to the Study of French Literature and Culture ^{ab} | 3 |
| FR 201—Introduction to the French Literature I ^{ab} | 3 |
| FR 202—Introduction to the French Literature II ^{bc} | 3 |
| FR 231—Conversation and Composition I ^d | 3 |
| FR 232—Conversation and Composition II ^d | 3 |
| FR 301—Topics in French and Francophone Literature | 3 |
| FR 302—Topics in French and Francophone Culture | 3 |
| FR 333—Oral and Written French I | 3 |
| FR 334—Oral and Written French II | 3 |
| FR 390—Senior Seminar: Topics in Research and Writing ^e | 3 |
| FR 448—Foundations of Second Language Teaching | 3 |
| FR 449—Teaching Second Language Literacy and Cultural Awareness | 3 |
| One 400-level elective in literature, civilization, or grammar | 3 |
| Total Hours—Major Requirements | 39 |

^a This course is approved for the Exploring World Cultures General Education category.

^b This course is approved for the Understanding the Creative Arts General Education category.

^c This course is approved for the Understanding the Past General Education category.

^d Fluent French speakers substitute other 200- or 300-level courses for FR 231 and 232.

^e FR 390 fulfills the Writing-in-the-Discipline requirement.

Additional Requirements for Teacher Certification

| Courses | Hours |
|---------------------------------------|-------|
| ED 200—Educational Policy Foundations | 3 |
| ED 210—The Educative Process | 3 |

| | |
|--|-----------|
| ED 330—Curriculum, Instruction, and Evaluation in the Secondary School | 4 |
| SPED 410—Survey of Characteristics of Learners with Disabilities | 3 |
| FR 470—Educational Practice with Seminar I | 6 |
| FR 471—Educational Practice with Seminar II | 6 |
| Total Hours—Additional Requirements for Teacher Certification | 25 |

In addition to specified course work in the major field, the teacher education student must fulfill certain other requirements as well as maintain a minimum cumulative GPA of 2.50/4.00 in all LAS and General Education requirements and a GPA of 3.00/4.00 or greater in courses for the Teacher Education in French major including education courses. For detailed information, see the *Program Guide for Teacher Education* in French, available from the secondary education coordinator in the Department of Spanish, French, Italian, and Portuguese.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basic Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See *Council on Teacher Education and Secondary Education Program* in the *College of Education* section of the catalog.

Recommended Plan of Study

To view a recommended plan of study for the Bachelor of Arts in the Teaching of French, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in the Teaching of French

Secondary education majors from other disciplines who want to minor in the teaching of French must complete 20 semester hours as outlined below:

| Required Courses—Teaching of French Minor | Hours |
|---|-----------|
| FR 103—Intermediate French I | 4 |
| FR 104—Intermediate French II | 4 |
| FR 200—Introduction to the Study of French Literature and Culture | 3 |
| One of the following courses: | 3 |
| FR 201—Introduction to French Literature I (3) | |
| FR 202—Introduction to French Literature II (3) | |
| FR 231—Conversation and Composition I ^a | 3 |
| FR 232—Conversation and Composition II ^a | 3 |
| Total Hours—Teaching of French Minor | 20 |

^a *Fluent French speakers substitute other 200- or 300-level courses for FR 231 and 232.*

This minor is open only to students obtaining full certification in an approved UIC Teacher Education major. To teach French as a second subject in Illinois public schools one must apply for and receive an Endorsement from the State Board of Education and meet all of the additional course and other requirements the Board has established.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must

file an application with the State of Illinois and take an examination administered by the State Board of Education. For information on application procedures, contact the Council on Teacher Education in the College of Education.

Study Abroad Program—French

A significant portion of the credits for the major or minor in French may be earned through study abroad. Students who wish to be considered for study abroad should consult the director of undergraduate studies concerning prerequisites and requirements.

BA with a Major in Italian

Degree Requirements—Major in Italian

Note: Until further notice, the BA with a Major in Italian program is not accepting applications for admission.

To earn a Bachelor of Arts in Liberal Arts and Sciences degree from UIC, students must complete University, college, and department degree requirements. The Department of Spanish, French, Italian, and Portuguese degree requirements are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BA with a Major in Italian Degree Requirements | Hours |
|--|------------|
| Major Requirements | 37 |
| General Education and Electives to reach Minimum Total Hours | 83 |
| Minimum Total Hours—BA with a Major in Italian | 120 |

General Education

See *General Education and Writing-in-the-Discipline* in the *College of Liberal Arts and Sciences* section for information on meeting these requirements.

Major Requirements

For the Bachelor of Arts, 37 semester hours (exclusive of Italian 240) are required as distributed below.

| Courses | Hours |
|--|-----------|
| ITAL 200—Conversational Italian ^a | 3 |
| ITAL 201—Italian Composition and Conversation | 3 |
| ITAL 210—Introduction to Reading and Analysis of Italian Literary Texts ^b | 3 |
| ITAL 303—Advanced Italian Composition and Conversation | 3 |
| ITAL 305—Advanced Italian Grammar | 3 |
| ITAL 310—Early Italian Literature and Society | 3 |
| ITAL 311—Modern Italian Literature and Culture | 3 |
| ITAL 411—Literary Forms in Early Renaissance | 3 |
| ITAL 370—Writing and Research in the Major ^c | 1 |
| One of the following courses: | 3 |
| ITAL 421—Modern Italian Literature II (3) | |
| ITAL 422—Contemporary Italian Literature (3) | |
| One of the following courses: | 3 |
| ITAL 450—Divina Commedia I (3) | |
| ITAL 451—Divina Commedia II (3) | |
| Two or three additional courses, which may include ITAL 205 or 230 and one or two courses at the 400-level | 6–9 |
| Total Hours—Major Requirements | 37 |

^a *Fluent Italian speakers substitute a higher-level course for ITAL 200.*

^b *This course is approved for the Understanding the Creative Arts General Education category.*

^c *ITAL 370 fulfills the Writing-in-the-Discipline requirement.*

Recommended Plan of Study

To view a recommended plan of study for the major in Italian, please visit the LAS Web site at <http://www.uic.edu/las/college/info/fygp>.

Minor in Italian

Students from other disciplines who want to minor in Italian must complete 21 semester hours as outlined below:

| Required Courses—Italian Minor | Hours |
|---|-----------|
| ITAL 200—Conversational Italian ^a | 3 |
| ITAL 201—Italian Composition and Conversation | 3 |
| ITAL 210—Introduction to Reading and Analysis of Italian Literary Texts | 3 |
| ITAL 303—Advanced Italian Composition and Conversation | 3 |
| ITAL 305—Advanced Italian Grammar | 3 |
| Two or three additional courses at the 200-, 300-, or 400-level | 6–9 |
| Total Hours—Italian Minor | 21 |

^a *Fluent Italian speakers substitute a higher-level course for ITAL 200.*

Study Abroad Programs—Italian

The Italian program encourages all minors to take advantage of study abroad opportunities in Italy available to UIC students. Students who wish to be considered for study abroad should consult the director of undergraduate studies concerning prerequisites and requirements. For information on these programs please visit the following Web site: http://www.uic.edu/depts/spec_prog/studyabroad/Programs%20by%20region/weurope.html#ITALY.

For general information about study abroad opportunities please visit the UIC Study Abroad office at http://www.uic.edu/depts/spec_prog/studyabroad/.

Portuguese

Portuguese serves the Spanish major through its courses for Spanish speakers.

Distinction

Students who earn a 3.75/4.00 GPA in all courses taken in the Department of Spanish, French, Italian, and Portuguese at UIC will be awarded departmental distinction.

STATISTICS AND OPERATIONS RESEARCH

322 Science and Engineering Offices (SEO)
(312) 996-3041
<http://www.math.uic.edu>

The Bachelor of Science in Statistics and Operations Research is awarded in the College of Liberal Arts and Sciences to students who successfully complete this curriculum. Courses are chosen from the LAS Department of Mathematics, Statistics, and Computer Science and the Department of Information and Decision Sciences of the College of Business Administration. It is a joint program of the above two departments.

The curriculum is intended for students planning advanced study in statistics and operations research or for a career in the data-oriented applications of these disciplines to a wide variety of areas such as accounting, actuarial science, auditing, biostatistics, data management, financial analysis,

hospital administration, long-range developmental planning, pharmaceuticals, traffic controls, and transportation management.

No transfer courses below calculus may be counted toward the BS in Statistics and Operations Research. Only grades of A, B, and C in calculus and above from other colleges and universities will be accepted for transfer credit.

BS in Statistics and Operations Research**Degree Requirements**

To earn a Bachelor of Science in Statistics and Operations Research degree from UIC, students must complete University, college, and department degree requirements. The degree requirements for the Department of Mathematics, Statistics, and Computer Science and the Department of Information and Decision Sciences are outlined below. Students should consult the *College of Liberal Arts and Sciences* section for additional degree requirements and college academic policies.

| BS in Statistics and Operations Research Degree Requirements | Hours |
|---|-------|
|---|-------|

| | |
|---------------------------------|-----|
| Requirements for the Curriculum | 120 |
|---------------------------------|-----|

| Total Hours—BS in Statistics and Operations Research | Hours |
|---|-------|
|---|-------|

| | |
|--|-----|
| | 120 |
|--|-----|

Requirements for the Curriculum

The requirements for the curriculum include courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section.

| Courses | Hours |
|--|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (the equivalent of 2 years of a single language at the college level) | 0–16 |
| Analyzing the Natural World (2 laboratory courses) ^a | 6–10 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^{ab} | |
| OR | |
| Understanding U.S. Society course ^{ab} | 3 |
| Understanding the Past course ^a | 3 |
| MATH 180—Calculus I ^{cde} | 5 |
| MATH 181—Calculus II ^{de} | 5 |
| MATH 210—Calculus III ^e | 3 |
| MATH 310—Applied Linear Algebra ^f | 3 |
| MCS 260—Introduction to Computer Science ^g | 4 |
| STAT 401—Introduction to Probability | 3 |
| MATH 300—Writing for Mathematics ^h | 1 |
| ECON 130—Principles of Economics for Business ^b | 5 |
| ECON 218—Microeconomics: Theory and Business Applications | 4 |
| IDS 270—Business Statistics I ^d | 4 |
| IDS 355—Operations Management ^g | 3 |
| IDS 371—Business Statistics II | 3 |

| Computing—Two courses from the following: | Hours |
|---|-------|
|---|-------|

| | |
|---|--|
| MCS 275—Programming Tools and File Management (4) | |
| IDS 400—Advanced Business Programming Using Visual Tools (3) | |
| IDS 401—Business Computing II: Data Structures and Operating Systems (3) ^g | |
| IDS 405—Business Systems Analysis and Design (3) ^g | |
| IDS 410—Business Database Technology (3) ^g | |

| | |
|--|----------|
| Operations Research—Two courses from the following: | 6 |
| STAT 473—Game Theory (3) | |
| STAT 471—Linear and Non-linear Programming (3) | |
| OR | |
| IDS 435—Operations Research I (3) ^f | |
| STAT 461—Applied Probability Models I (3) | |
| OR | |
| IDS 437—Operations Research III (3) ^f | |

| | |
|---|----------|
| Statistics—Two courses from the following: | 6 |
| STAT 381—Applied Statistical Methods I (3) | |
| STAT 411—Statistical Theory (3) | |
| STAT 416—Nonparametric Statistical Methods (3) | |
| STAT 431—Introduction to Survey Sampling (3) | |
| STAT 481—Applied Statistical Methods II (3) | |
| STAT 494—Special Topics in Statistics, Probability, and Operations Research (3) | |
| IDS 470—Multivariate Analysis (3) | |
| IDS 476—Business Forecasting Using Time Series Methods (3) | |

| | |
|---|------------|
| Electives in the area of statistics, operations research, mathematics, and computing to be chosen in consultation with a program advisor from the following: | 6 |
| MATH 215—Introduction to Advanced Mathematics (3) | |
| MATH 220—Introduction to Differential Equations (3) | |
| 300-level or higher IDS, MCS, MATH, and STAT courses | |
| Electives to complete degree requirement of 120 hours | 8–29 |
| Total Hours—Requirements for the Curriculum | 120 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b ECON 130 is approved for the following General Education categories: *Understanding the Individual and Society*; *Understanding U.S. Society*. Students must take at least one course in each of these categories.

^c MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^d MATH 180 and 181 satisfy the prerequisite for IDS 270.

^e This course is approved for the *Analyzing the Natural World* General Education category.

^f MATH 310 satisfies the prerequisite for IDS 435 and 437.

^g MCS 260 satisfies the computing prerequisite for IDS 355 and for IDS 401, 405, and 410.

^h MATH 300 fulfills the *Writing-in-the-Discipline* Requirement.

No MTHT courses count toward this curriculum.

Recommended Plan of Study

A recommended basic sequence of courses is listed below. Students who do not place into MATH 180 should expect to take summer session courses and possibly take longer than four years to graduate. The honors sections of MATH 180, 181, and 210 are recommended for majors. Students who have taken AP exams in calculus or computer science need to see a departmental advisor for correct placement.

Freshman Year

| Fall Semester | Hours |
|---|-----------|
| MATH 180—Calculus I | 5 |
| MCS 260—Introduction to Computer Science | 4 |
| Foreign language | 4 |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| Total Hours | 16 |
| Spring Semester | Hours |
| MATH 181—Calculus II | 5 |
| IDS 270—Business Statistics I | 4 |

| | |
|--|-----------|
| Foreign language | 4 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Total Hours | 16 |

Sophomore Year

| Fall Semester | Hours |
|---|--------------|
| MATH 210—Calculus III | 3 |
| ECON 130—Principles of Economics for Business | 5 |
| Foreign language | 4 |
| General Education Core course | 3–5 |
| Total Hours | 15–17 |

| Spring Semester | Hours |
|---|--------------|
| IDS 371—Business Statistics II | 3 |
| ECON 218—Microeconomics: Theory and Business Applications | 4 |
| Foreign language | 4 |
| General Education Core course | 3–5 |
| Total Hours | 14–16 |

Junior Year

| Fall Semester | Hours |
|----------------------------------|--------------|
| IDS 355—Operations Management I | 4 |
| MATH 300—Writing for Mathematics | 1 |
| STAT 381—Applied Statistics | 3 |
| Computing Elective | 3–4 |
| General Education Core course | 3–5 |
| Total Hours | 14–17 |

| Spring Semester | Hours |
|---------------------------------|--------------|
| MATH 310—Applied Linear Algebra | 3 |
| STAT 401—Probability Theory | 3 |
| Computing Elective | 3–4 |
| General Education Core course | 3–5 |
| Elective | 3 |
| Total Hours | 15–18 |

Senior Year

| Fall Semester | Hours |
|-------------------------------|--------------|
| Operations Research Elective | 3 |
| Statistics Elective | 3 |
| General Education Core course | 3–5 |
| Elective | 3 |
| Total Hours | 12–14 |
| Spring Semester | Hours |
| Operations Research Elective | 3 |
| Statistics Elective | 3 |
| General Education Core course | 3–5 |
| Two Electives | 6 |
| Total Hours | 15–17 |

Distinction

For consideration, the student must have a minimum GPA of 3.50/4.00 in upper-division courses in the department at UIC. The department may award High and Highest Distinction in recognition of outstanding academic achievement.

PREPROFESSIONAL STUDIES

309 University Hall (UH)
(312) 996-3366

<http://www.uic.edu/las/college>

Administration: Dean, Dwight A. McBride
Senior Associate Dean, Emanuel D. Pollack
Program Coordinator, Preprofessional Studies,
Candice Eisenhauer

Preprofessional studies in the College of Liberal Arts and Sciences include course work that prepares students to apply for professional programs in a variety of fields. Students may pursue preprofessional studies in the following areas: Pre-Dentistry, Pre-Elementary Education, Pre-Engineering, Pre-Health Information Management, Pre-Law, Pre-Medicine, Pre-Nursing, Pre-Nutrition, Pre-Occupational Therapy, Pre-Pharmacy, Pre-Physical Therapy, Pre-Urban and Public Affairs, and Pre-Veterinary Medicine.

Preprofessional advisors are available to meet with students during individual appointment sessions and small and large group workshops. Students interested in pre-health studies should visit the LAS Pre-Health Web site <http://www.uic.edu/las/students/prehealth/> for information regarding upcoming workshops and other related information. Students can also find information regarding scheduling individual appointments with a pre-health advisor.

Preprofessional studies in Pre-Dentistry, Pre-Law, Pre-Medicine, Pre-Occupational Therapy, Pre-Physical Therapy, and Pre-Veterinary Medicine require students to complete an undergraduate degree program, including a major and preprofessional studies course work. In most cases, the bachelor's degree is required prior to matriculation to the professional program. If admitted, students complete a professional degree program and graduate with a postbaccalaureate professional degree.

Preprofessional studies in Pre-Elementary Education, Pre-Engineering, Pre-Health Information Management, Pre-Nutrition, Pre-Nursing, and Pre-Urban and Public Affairs require students to complete two years of undergraduate study in the College of Liberal Arts and Sciences prior to admission to the professional college. In some instances, completion of a particular program may take more time than anticipated if the student needs to satisfy prerequisites, or when a student does not take courses in the proper sequence. If admitted, students complete two additional years of undergraduate study in the professional college and graduate with a bachelor's degree.

Preprofessional study in Pre-Pharmacy requires students to complete a minimum of two years of undergraduate study in the College of Liberal Arts and Sciences prior to admission to the College of Pharmacy. A majority of the stu-

dents admitted to the College of Pharmacy have completed a bachelor's degree at the time of matriculation. If admitted, students complete four additional years of study in the College of Pharmacy and graduate with a doctor of pharmacy degree.

Completion of preprofessional studies course work does not guarantee admission to a professional college. Students in preprofessional studies are strongly encouraged to consult an LAS preprofessional advisor and an advisor in the professional program before submitting an application. Each professional college has specific application procedures, deadlines, and requirements, which can change from time to time and may not be reflected in this catalog. Students are responsible for obtaining the most current information.

Students in preprofessional studies must plan their course of study with care. Advisors are available to assist students, however, the responsibility for selecting courses and meeting admission requirements rests with the individual student who must plan and select courses consistent with the program requirements.

Pre-Dentistry, Pre-Medicine, Pre-Occupational Therapy, Pre-Physical Therapy, and Pre-Veterinary Medicine (see below)

Pre-Dentistry

Pre-dentistry students may choose any major, but should work with a preprofessional advisor to plan a course of study that fulfills the pre-dentistry studies requirements as well as the requirements for the major. Preference is given to candidates who have a strong science foundation.

The table below lists the minimum course work required to apply for admission to the College of Dentistry at the University of Illinois at Chicago. Pre-dentistry requires a minimum of 90 semester hours of undergraduate course work, excluding physical education and basic military science, distributed as follows:

| Courses ^{ab} | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| BIOS 100—Biology of Cells and Organisms ^c | 5 |
| BIOS 101—Biology of Populations and Communities ^c | 5 |
| One of the following general chemistry sequences: | 10 |
| CHEM 112—General College Chemistry I (5)c | |
| CHEM 114—General College Chemistry II (5)c | |

Pre-Dentistry, Pre-Medicine, Pre-Occupational Therapy, Pre-Physical Therapy, and Pre-Veterinary Medicine

| Preprofessional Studies | Preprofessional Studies Required Hours | Major | Bachelor's Degree Required for Admission to Professional College | Professional College ^a |
|--------------------------|--|-------|--|--|
| Pre-Dentistry | 90 | Any | Strongly recommended | UIC College of Dentistry |
| Pre-Medicine | 59–63 | Any | Yes | UIC College of Medicine |
| Pre-Occupational Therapy | 35 | Any | Yes | UIC College of Applied Health Sciences |
| Pre-Physical Therapy | 50 | Any | Yes | UIC College of Applied Health Sciences |
| Pre-Veterinary Medicine | 78–83 | Any | Yes ^b | UIUC College of Veterinary Medicine |

^a Although the prerequisites for admission to professional programs are those for University of Illinois professional colleges, student interested in other institutions should consult those programs for their requirements.

^b Students should visit the program Web site for information regarding applying without a bachelor's degree <http://vetmed.illinois.edu/index.html>.

OR

CHEM 116—Honors General Chemistry I (5)c

CHEM 118—Honors General Chemistry II (5)c

AND, the following organic chemistry sequence:

CHEM 232—Organic Chemistry I 4

CHEM 233—Organic Chemistry Laboratory I 1

CHEM 234—Organic Chemistry II (optional, but preferred) 4

One of the following physics sequences: 8–10PHYS 105—Introductory Physics I—Lecture^{cd} (4)PHYS 106—Introductory Physics I—Laboratory^{cd} (1)PHYS 107—Introductory Physics II—Lecture^{cd} (4)PHYS 108—Introductory Physics II—Laboratory^{cd} (1)**OR**PHYS 141—General Physics I (Mechanics) (4)^cPHYS 142—General Physics II (Electricity and Magnetism) (4)^cElectives to complete the required total of 90 semester hours^e Varies**Total Hours—Pre-Dentistry 90**

^a If basic-level biological sciences, chemistry, and physics course requirements are satisfied with AP credit, students must then take the specified number of credit hours in each area from upper-level science courses.

^b The College of Dentistry strongly recommends the completion of a bachelor's degree for admission. Students completing a bachelor's degree at UIC must fulfill all the requirements of an undergraduate degree program, including General Education requirements. Students should consult their college and department sections of the catalog for information on completing their degree programs, including General Education requirements.

^c This course is approved for the Analyzing the Natural World General Education category.

^d Each of the following pairs of courses will be considered one course in meeting the LAS General Education requirements: PHYS 105/106; PHYS 107/108.

^e Highly recommended electives include the following: human anatomy, physiology, biochemistry, microbiology, and humanities and social science courses, some of which may count toward the General Education requirements. Students should consult their college and department sections of the catalog for information on General Education in the degree program as well as the General Education section of the catalog for a list of approved General Education courses in each category.

The College of Dentistry requires that all prerequisite science courses include labs. Additionally, all required prerequisite courses taken must be a grade of C or better. The College of Dentistry gives strong preference to applicants who have taken three to four of the following science courses beyond the above minimum: human anatomy, physiology, biochemistry, microbiology, cell biology, histology, and genetics.

In addition to the course work listed above, applicants to the College of Dentistry must also take the Dental Admission Test (DAT). The DAT is offered through the American Dental Association (ADA). For more information on the DAT, please see the ADA Web site <http://www.ada.org/prof/ed/testing/dat/index.asp>. Applicants to the College of Dentistry must apply through a centralized application service sponsored by the American Dental Education Association (ADEA). For more information on the Associated American Dental Schools Application Service (AADSAS) please visit the following Web site <https://portal.aadsasweb.org/>.

Students may obtain information regarding the DAT and AADSAS by attending a workshop sponsored by the pre-health advising staff in LAS. Individual appointments with a pre-health advisor are available to students who have completed the first year of general chemistry and general biology. Until that point, students are highly encouraged to meet with a LAS advisor. Students are advised to declare

an educational goal of pre-dentistry upon entering UIC which will alert them to specific workshops and other pertinent information. The LAS college office also provides a service for collecting letters of recommendation that are required in support of the dental school application.

Although the minimum requirement for application to the College of Dentistry is three years (90 semester hours) of college credit, few students are actually admitted at that point. Most students accepted into the UIC College of Dentistry have earned a bachelor's degree. Students are strongly encouraged to select an undergraduate major and begin fulfilling their degree requirements as they complete their pre-dentistry studies. To obtain a degree in the College of Liberal Arts and Sciences, pre-dentistry students must satisfy all degree requirements of the college, including a major field.

In addition to the academic requirements, pre-dental students at UIC are strongly encouraged to become active members of the UIC Pre-Dental Club as well as obtain pre-professional experiences in dental practices which may include but are not limited to shadowing a private practitioner, working as a dental assistant, working as a dental lab technician, observing in a public health dental clinic, etc.

The pre-dentistry program described above includes the minimum courses for application to the UIC College of Dentistry. Specific admission requirements of other dental schools are listed in The Official Guide to Dental Schools, which is published by the American Dental Education Association, 1400 K. Street, N.W., Washington, D.C. 20005. Information on dental schools is also available at http://www.adea.org/dental_education_pathways/educational_resources/Pages/ADEAOfficialGuidetoDentalSchools.aspx.

Students admitted to a U.S. accredited college of dentistry before earning a bachelor's degree may be eligible to complete the baccalaureate by transferring credit from the first year of study in dental school. The College of Liberal Arts and Sciences accepts a total of 32 semester hours of credit from an accredited college of dentistry to enable a student to complete the requirements for a bachelor's degree, provided that the following conditions are met:

1. The student is in good standing in the college of dentistry;
2. The course work taken in the college of dentistry does not duplicate previous course work;
3. The courses are in fields such as biochemistry, physiology, histology, or anatomy as approved by the College of Liberal Arts and Sciences;
4. The student satisfies the enrollment residence requirement by completing at UIC at least the last 60 semester hours prior to entry into a college of dentistry;
5. The student meets all other requirements for graduation from the College of Liberal Arts and Sciences, including a major field and a 2.00/4.00 GPA in all course work taken at UIC and other institutions.

Pre-Medicine

Pre-medicine students may choose any major, but should work with a preprofessional advisor to plan a course of study that fulfills pre-medicine studies requirements as well as the requirements for the major. Students who want to apply for admission to the College of Medicine at the University of Illinois at Chicago must have completed a bachelor's degree.

A pre-medical program must include the following minimum science preparation:

| Courses ^a | Hours |
|---|--------------|
| BIOS 100—Biology of Cells and Organisms ^b | 5 |
| BIOS 101—Biology of Populations and Communities ^b | 5 |
| One of the following general chemistry sequences: | 10 |
| CHEM 112—General College Chemistry I (5) ^b | |
| CHEM 114—General College Chemistry II (5) ^b | |
| OR | |
| CHEM 116—Honors General Chemistry I (5) ^b | |
| CHEM 118—Honors General Chemistry II (5) ^b | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II ^c | 4 |
| One of the following physics sequences: | 8–10 |
| PHYS 105—Introductory Physics I—Lecture (4) ^{bc} | |
| PHYS 106—Introductory Physics I—Laboratory (1) ^{bc} | |
| PHYS 107—Introductory Physics II—Lecture (4) ^{bc} | |
| PHYS 108—Introductory Physics II—Laboratory (1) ^{bc} | |
| OR | |
| PHYS 141—General Physics I (Mechanics) (4) ^b | |
| PHYS 142—General Physics II (Electricity and Magnetism) (4) ^b | |
| MATH 121—Precalculus Mathematics (Recommended) | 5 |
| MATH 180—Calculus I (Recommended) | 5 |
| Three courses chosen from the disciplines of anthropology, psychology, and/or sociology ^d | 9 |
| At least one of the following courses: | 3–5 |
| 200-, 300-, or 400-level biology course Biochemistry, physiology, mammalian histology, comparative vertebrate anatomy, or molecular genetics course | |
| Total Hours—Pre-Medicine | 59–63 |

^a Students completing a bachelor's degree at UIC must fulfill all the requirements of an undergraduate degree program, including General Education requirements. Students should consult their college and department sections of the catalog for information on completing their degree programs, including General Education requirements.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Each of the following pairs of courses will be considered one course in meeting the LAS General Education requirements: PHYS 105/106; PHYS 107/108.

^d Students completing a bachelor's degree at UIC should consult the General Education section of the catalog and their academic advisor to select courses in anthropology, psychology, and/or sociology that are approved for General Education. Two of the three courses must be in the same field of study.

^e One course of introductory biochemistry may substitute for the second organic chemistry.

In addition to the course work listed above, applicants to the College of Medicine must take the Medical College Admission Test (MCAT) and apply using the centralized application services (AMCAS or AACOMAS) sponsored by the Association of American Medical Colleges and American Association of Colleges of Osteopathic Medicine. The MCAT should be taken after completion of the minimum pre-medical course requirements.

Students may obtain information regarding the MCAT and AMCAS by attending a workshop sponsored by the pre-health advising staff in LAS. Individual appointments with a pre-health advisor are available to students who have completed the first year of general chemistry and general biology. Until that point, students are highly encouraged to meet with an LAS advisor. Students are advised to declare an educational goal of pre-medicine upon entering UIC which will alert them to specific workshops and other pertinent information. The college office also provides a service for collecting letters of recommendation that are required in support of the application.

The list of courses above includes the minimum courses required for application to the UIC College of Medicine. Specific admission requirements of other medical schools are listed in Medical School Admission Requirements, which is published by the Association of American Medical Colleges, One Dupont Circle N.W., Washington, D.C. 20036 and can be ordered through their Web site at <http://www.aamc.org/medicalschoools.htm>.

Most medical schools, including the University of Illinois, will only accept students with bachelor's degrees. However, students admitted to a college of medicine prior to completion of the bachelor's degree may be eligible to receive the baccalaureate upon satisfactory completion of the first year in a U.S. accredited medical school. The College of Liberal Arts and Sciences accepts a total of 32 semester hours of credit from an accredited college of medicine to enable a student to complete the requirements for a bachelor's degree, provided that the following criteria are met:

1. The student is in good standing in the college of medicine;
2. The work taken in the college of medicine does not duplicate previous work;
3. The courses are in fields such as biochemistry, physiology, histology, or anatomy as approved by the College of Liberal Arts and Sciences;
4. The student satisfies the enrollment residence requirement by completing at UIC at least the last 60 semester hours prior to entry into a college of medicine;
5. The student meets all other requirements for graduation from the College of Liberal Arts and Sciences, including a major field and a 2.00/4.00 cumulative GPA in all course work taken at UIC and other institutions.

Pre-Occupational Therapy

Occupational therapists provide services to maximize the function and satisfaction of persons whose daily life performance has been interrupted and jeopardized by disease, disability, life stress, and other factors. The occupational therapist provides the individual with opportunities for involvement in carefully chosen work, play, or self-care activities. The occupational therapist also uses various methods of mutual problem solving, environmental modification, adaptive devices, technology, and biomechanical and sensorimotor treatment methods to support and enhance performance.

Many occupational therapists work within hospital settings, but there is growing emphasis on prevention and treatment of the disabled in nonclinical settings. As a result, many new areas of employment are now available. For example, occupational therapists are increasingly employed in school systems where they work with handicapped children, enhancing their ability to perform as students. Working with in-home health organizations, occupational therapists help individuals and families function more adequately at daily tasks. In industrial settings, they aid disabled or injured workers' return to gainful employment. In addition, occupational therapists have developed private practices.

The preprofessional course work listed below prepares students to apply to the professional program in the Department of Occupational Therapy in the College of Applied Health Sciences after completion of the undergraduate degree. Students should contact OTDept@uic.edu or (312) 413-0124 for further information.

Pre-occupational therapy students may choose any major but should work with an advisor to plan a course of study that fulfills pre-occupational therapy studies requirements

as well as the requirements for the major.

The pre-occupational therapy requirements follow and should be completed as part of the undergraduate degree program. The courses listed below must be completed with a grade of C or better.

| Courses ^a | Hours |
|---|-----------|
| BIOS 100—Biology of Cells and Organisms ^b | 5 |
| KN 251—Human Physiological Anatomy I ^{cd} | 5 |
| KN 252—Human Physiological Anatomy II ^{cd} | 5 |
| PSCH 100—Introduction to Psychology ^e | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| PSCH 270—Abnormal Psychology ^e | 3 |
| PSCH 320—Developmental Psychology ^e | 3 |
| PSCH 343—Statistical Methods in Behavioral Science | 4 |
| One course in anthropology or sociology | 3 |
| Although not required, it is recommended that students complete a medical terminology course. Alternatively, students are expected to complete a self-study computerized course in medical terminology upon acceptance. | |
| Total Hours—Pre-Occupational Therapy | 35 |

^a Students completing an undergraduate degree at UIC must complete the General Education requirements. Students should consult the General Education section and their college/department sections of the catalog for more information on fulfilling these requirements.

^b This course is approved for the Analyzing the Natural World General Education category.

^c KN 251/252 sequence begins in the fall semester only.

^d These courses must be taken within five years of admission to the program.

^e This course is approved for the Understanding the Individual and Society General Education category.

Other minimum admissions requirements include an earned bachelor's degree in any field, CPR (cardiopulmonary resuscitation) certification with Health Providers Status, 3.00/4.00 GPA for the last 60 semester hours earned for the baccalaureate degree, Graduate Record Examination (GRE) score of at least 1000 combined verbal and quantitative parts, three letters of recommendation, and a personal statement. Applicants with a GPA of below 3.00 or GRE score below 1000 who display strengths in other areas may be considered for admission. Students must apply for admission to the program approximately one year before planned enrollment.

Pre-Physical Therapy

Physical therapy is a health profession whose primary purpose is the promotion of optimal human health and function through the application of scientific principles to prevent, identify, assess, correct, or alleviate acute or prolonged movement dysfunction. Physical therapy encompasses areas of specialized competence and includes the development of new principles and applications to more effectively meet existing and emerging health needs. Other professional activities that serve the purpose of physical therapy are research, education, consultation, and administration.

The physical therapist, working in cooperation with other health professionals, serves the individual needs of the client and the health needs of society. The physical therapy profession depends heavily on knowledge and application of the basic medical and behavioral sciences, coupled with specialized knowledge and skills in the clinical arts and sciences.

Physical therapists may work as staff, supervisors, or self-employed practitioners who serve clients directly; as administrators of clinical departments, health agencies, or educational programs; as healthcare agency consultants; as clinical or academic teachers; or as researchers.

They may work in hospitals, clinics, rehabilitation centers, schools for handicapped children, neighborhood health centers, physicians' offices, nursing homes and convalescent centers, private and public health agencies, sports settings, and universities.

Pre-physical therapy students may choose any major but should work with an advisor to plan a course of study that fulfills the pre-physical therapy studies requirements as well as the requirements for the major. Individual appointments with a pre-health advisor are available to students who have completed the first year of general chemistry and general biology. Until that point, students are highly encouraged to meet with a LAS advisor. Students are advised to declare an educational goal of pre-physical therapy upon entering UIC which will alert them to specific workshops and other pertinent information.

The pre-physical therapy requirements follow and should be completed as part of the undergraduate degree program.

| Courses ^a | Hours |
|---|-----------|
| BIOS 100—Biology of Cells and Organisms ^b | 5 |
| One of the following general chemistry sequences: | 10 |
| CHEM 112—General College Chemistry I (5) ^b | |
| CHEM 114—General College Chemistry II (5) ^b | |
| OR | |
| CHEM 116—Honors General Chemistry I (5) ^b | |
| CHEM 118—Honors General Chemistry II (5) ^b | |
| MATH 180—Calculus I | 5 |
| PHYS 105—Introductory Physics I—Lecture ^{bc} | 4 |
| PHYS 106—Introductory Physics I—Laboratory ^{bc} | 1 |
| PHYS 107—Introductory Physics II—Lecture ^{bc} | 4 |
| PHYS 108—Introductory Physics II - Laboratory ^{bc} | 1 |
| PSCH 100—Introduction to Psychology ^d | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| One course in developmental or abnormal psychology, choose from the following: | 3 |
| PSCH 270—Abnormal Psychology (3) ^d | |
| PSCH 320—Developmental Psychology (3) | |
| KN 251—Human Physiological Anatomy I ^e | 5 |
| KN 252—Human Physiological Anatomy II ^e | 5 |
| Total Hours—Pre-Physical Therapy | 50 |

^a Students completing an undergraduate degree at UIC must complete the General Education requirements. Students should consult the General Education section and their college/department sections of the catalog for more information on fulfilling these requirements.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Each of the following pairs of courses will be considered one course in meeting the LAS General Education requirements: PHYS 105/106; PHYS 107/108.

^d This course is approved for the Understanding the Individual and Society General Education category.

^e KN 251/252 sequence begins in the fall semester only.

In addition, applicants must complete a minimum of 45 hours of documented volunteer or observation experiences in three different physical therapy facilities; at least 15 hours must be completed at each facility. Current certification in CPR (cardiopulmonary resuscitation) with Health Provider Status is recommended prior to beginning the professional program. Students must also have earned a bachelor's degree prior to enrolling in the program.

The minimum GPA for application to the program in physical therapy is 2.50/4.00 in science and nonscience courses. The competitive GPA, however, is considerably above this level. The Graduate Record Examination (GRE) must be taken within five years of the date of application. Students must apply for admission to the program approximately one year before planned enrollment.

There are two parts to the application: the online application and a supplemental set of materials. Applicants to the DPT program must apply online using the Physical Therapist Centralized Application Service (PTCAS). Applicants can begin their PTCAS application in August. The PT program application deadline is October 15th. The supplemental materials must be sent directly to the Department of Physical Therapy and postmarked by the October 15 deadline. To learn more about the PTCAS application process, please visit the PTCAS Web site at <http://www.ptcas.org>.

Pre-Veterinary Medicine

Pre-veterinary medicine students may choose any major, but should work with a preprofessional advisor to plan a course of study that fulfills the pre-veterinary medicine studies requirements as well as the requirements for the major.

The program listed below includes the minimum course work required to apply for admission to the College of Veterinary Medicine at the University of Illinois at Urbana-Champaign. Students desiring to apply should consult the program Web site to review the two different plans in which students can complete the prerequisite courses. A recommended program of 78–83 semester hours, exclusive of physical education and basic military science, can be distributed as follows:

| Courses ^a | Hours |
|---|--------------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| BIOS 100—Biology of Cells and Organisms ^b | 5 |
| BIOS 101—Biology of Populations and Communities ^b | 5 |
| Upper-level biology courses | 12 |
| One of the following general chemistry sequences: | 10 |
| CHEM 112—General College Chemistry I (5) ^b | |
| CHEM 114—General College Chemistry II (5) ^b | |
| OR | |
| CHEM 116—Honors General Chemistry I (5) ^b | |
| CHEM 118—Honors General Chemistry II (5) ^b | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| CHEM 452—Biochemistry I | 4 |
| MATH 121—Precalculus Mathematics (5) | 5 |
| MATH 180—Calculus I (Recommended) ^b | 5 |
| PHYS 105—Introductory Physics I—Lecture ^{bc} | 4 |
| PHYS 106—Introductory Physics I—Laboratory ^{bc} | 1 |
| PHYS 107—Introductory Physics II—Lecture ^{bc} | 4 |
| PHYS 108—Introductory Physics II - Laboratory ^{bc} | 1 |
| Humanities ^{ad} | 6 |
| Social sciences ^{ad} | 6 |
| Total Hours—Pre-Veterinary Medicine | 78–83 |

^a Students completing an undergraduate degree at UIC must complete the General Education requirements. Students should consult the General Education section and their college/department sections of the catalog for more information on fulfilling these requirements.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Each of the following pairs of courses will be considered one course in meeting the LAS General Education requirements: PHYS 105/106; PHYS 107/108.

^d Students should meet with their academic advisor to select courses in the humanities and social sciences that are approved for the Exploring World Cultures, Understanding the Creative Arts, Understanding the Individual and Society, Understanding the Past, and Understanding U.S. Society General Education categories.

Applicants are also encouraged to obtain work experience in the field of veterinary medicine.

In addition to the course work listed above, applicants to the College of Veterinary Medicine at the University of Illinois at Urbana-Champaign must take the Graduate Record Examination (GRE). The GRE should be taken after completion of the minimum pre-veterinary medicine course requirements. Students may obtain an application information packet from the College of Veterinary Medicine that includes an application. Information on the GRE can be obtained from Testing Services, 1070 SSB. The minimum GPA for admission to the UIUC College of Veterinary Medicine is 2.50/4.00. The competitive average, however, is considerably above this level at the present time.

Applicants to the UIUC College of Veterinary Medicine must apply through the centralized application service (VMCAS) sponsored by the Association of American Veterinary Medical Colleges. Students may obtain information regarding the VMCAS by attending a workshop sponsored by the pre-health advising staff in LAS. Individual appointments with a pre-health advisor are available to students who have completed the first year of general chemistry and general biology. Until that point, students are highly encouraged to meet with an LAS advisor. Students are advised to declare an educational goal of pre-veterinary medicine upon entering UIC which will alert them to specific workshops and other pertinent information.

The list of courses above includes the recommended courses for application to the UIUC College of Veterinary Medicine. Specific admission requirements of other veterinary medical schools are listed in Veterinary Medical School Admission Requirements, which is published by the Association of American Veterinary Medical Colleges and may be ordered through the Purdue University Press <http://www.thepress.purdue.edu>.

Although the minimum requirement for application to the College of Veterinary Medicine at the University of Illinois at Urbana-Champaign is two years of college credit, few students are admitted at that point. Many students complete at least three years prior to acceptance, and most students have earned a bachelor's degree.

Pre-Health Information Management, Pre-Nursing, Pre-Nutrition, and Pre-Pharmacy

| Preprofessional Studies | Preprofessional Studies Required Hours | UIC Professional College | Professional Degree Program |
|-----------------------------------|---|------------------------------------|-------------------------------------|
| Pre-Health Information Management | 60 | College of Applied Health Sciences | BS in Health Information Management |
| Pre-Nursing | 57 | College of Nursing | BS in Nursing |
| Pre-Nutrition | 64 | College of Applied Health Sciences | BS in Human Nutrition |
| Pre-Pharmacy | 72 | College of Pharmacy | Doctor of Pharmacy |

Pre-Health Information Management, Pre-Nursing, Pre-Nutrition, and Pre-Pharmacy (see above)

Preprofessional studies in these health sciences areas require two years of undergraduate study prior to matriculation in the professional program. If admitted to the professional program, pre-health information management, pre-nutrition, and pre-nursing students complete the bachelor's degree in the professional college, and pre-pharmacy students complete the doctor of pharmacy degree in the College of Pharmacy.

Pre-Health Information Management

Health information administrators are responsible for the management of health information systems consistent with the medical, administrative, ethical, and legal requirements of the healthcare delivery system. They process patient data, design and implement systems that will accurately record this information and make it readily retrievable, and develop and maintain quality assurance programs to assist the healthcare team in monitoring all healthcare activities.

The administrator also provides medical information to qualified users and safeguards confidential patient data. Administrative duties assigned to this health professional include responsibility for subordinate personnel, capital equipment selection, systems design and analysis, hospital committee activities, and budget management.

Students acquire knowledge of medical science, disease classification and coding, record management, health information systems, information technology, and organization and management. Course work is integrated with clinical practice experience in the health information management departments of affiliated hospitals, so that the student can develop the organizational and managerial skills required to administer an efficient health information management department.

The preprofessional course work listed below prepares the student to apply to the Bachelor of Science in Health Information Management program offered in the College of Applied Health Sciences. If admitted to the program, students will complete two additional years (three years, if part time) of undergraduate study in the College of Applied Health Sciences to obtain the bachelor's degree.

Sixty semester hours, exclusive of basic military science, distributed as follows:

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| BIOS 100—Biology of Cells and Organisms ^a | 5 |
| Additional Analyzing the Natural World course ^b | 3–5 |
| KN 251—Human Physiological Anatomy I ^c | 5 |
| KN 252—Human Physiological Anatomy II ^c | 5 |

| | |
|--|-----------|
| Choose One of the following courses: | 5 |
| MATH 118—Mathematical Reasoning (5) | |
| MATH 121—Precalculus Mathematics (5) | |
| PSCH 100—Introduction to Psychology ^d | 4 |
| PSCH 242—Introduction to Research in Psychology | 3 |
| Exploring World Cultures course ^b | 3 |
| Understanding the Creative Arts course ^b | 3 |
| Understanding the Past course ^b | 3 |
| Understanding U.S. Society course ^b | 3 |
| IDS 200—Introduction to Management Information Sciences | 4 |
| Electives to complete the required total of 60 hours Pre-Health Information Management courses. | 6–8 |
| Total Hours—Pre-Health Information Management Requirements | 60 |

^a This course is approved for the Analyzing the Natural World General Education category.

^b Students should consult the General Education section of the catalog for a list approved courses in this category.

^c KN 251/252 sequence begins in the fall semester only.

^d This course is approved for the Understanding the Individual and Society General Education category.

The minimum GPA for application to the program in health information management is 2.00/4.00. Students may apply for admission to the program approximately one year before planned enrollment.

Pre-Nursing

The goal of the baccalaureate nursing program is to prepare nurses to function in a variety of settings: hospitals, clinics, rehabilitation centers, convalescent centers, military installations, and public health institutions, such as health departments and home healthcare agencies. Graduates assess the degree of health or illness of individuals, plan, implement, evaluate, and supervise nursing care. Graduates of this program have collegial and independent relationships with other members of the healthcare team.

The preprofessional course work listed below prepares the student to apply to the Bachelor of Science in Nursing program in the College of Nursing.

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| BIOS 350—General Microbiology ^a | 3 |
| CHEM 112—General College Chemistry I ^b | 5 |
| CHEM 130—Survey of Organic and Biochemistry ^b | 5 |
| KN 251—Human Physiological Anatomy I ^c | 5 |
| KN 252—Human Physiological Anatomy II ^c | 5 |
| NUSC 250—Human Development Across the Lifespan | 3 |
| HN 196—Nutrition | 3 |
| Exploring World Cultures course ^d | 3 |
| Understanding the Creative Arts course ^d | 3 |

| | |
|--|-----------|
| Understanding the Individual and Society course ^{de} | 3 |
| Understanding the Past course ^d | 3 |
| Understanding U.S. Society course ^{de} | 3 |
| One 3-semester-hour, 200-level, upper-division course in any General Education category ^f | 3 |
| LAS Electives | Varies |
| Total Hours—Pre-Nursing | 57 |

^a BIOS 100 is a prerequisite for this course.

^b This course is approved for the Analyzing the Natural World General Education category.

^c KN 251/252 sequence begins in the fall term only.

^d Students should consult the General Education section of the catalog for a list of approved courses in this category.

^e For the Understanding the Individual and Society requirement, PSCH 100—Introduction to Psychology is recommended; for the Understanding U.S. Society requirement, SOC 100—Introduction to Sociology is recommended.

^f This requirement may be completed after admission to the BSN program.

Applications to the BSN program are accepted for fall admission only. Students applying to the BSN program must meet the following minimum requirements:

1. 2.75/4.00 cumulative transfer grade point average
2. 2.50/4.00 natural science grade point average
3. Completion of all pre-nursing course work with a grade of C or higher prior to enrollment. The five natural science courses (human anatomy and physiology I and II, microbiology, general chemistry, organic or biochemistry) must have been completed within seven years of enrollment, and three of the five natural science courses must be completed prior to the application deadline.

Students with 3.25/4.00 cumulative transfer grade point average and a 2.80/4.00 natural science grade point average are eligible to apply early admission. Early admission applicants that are not accepted in the early admission round will be considered again in the general round of applications.

In addition, all students will be required to have a background check and drug test upon admission. If the results of either requirement indicate that a student would not be eligible for placement at the College's practicum agencies, the student's admission will be rescinded.

Applications are available in September. The early admission application deadline is October 15, and the final application deadline is January 15. Students should see the program Web site for information regarding requirements to apply early admission <http://www.uic.edu/nursing/>.

Pre-Nutrition

The Department of Kinesiology and Nutrition offers two major concentrations (the Coordinated Program concentration and the Nutrition Science concentration) that lead to the Bachelor of Science degree. The Coordinated Program concentration focuses on the practice of nutrition (i.e., dietetics). Upon successful completion of the program, students are eligible to take the Registration Examination of the Commission on Dietetic Registration to become a Registered Dietitian (RD). The Nutrition Science concentration focuses on intensive study in biological and physical sciences as a basis for understanding the science of nutrition and the relationships between nutrients and human health. This track can be designed to meet the requirements for a didactic program in dietetics

(DPD), so that students can apply for a dietetic internship at another institution after completion of the program.

The prerequisite course work listed below prepares the student to apply for either concentration in the Nutrition program offered in the College of Applied Health Sciences.

Please see the Department of Kinesiology and Nutrition section of the catalog for more information about each concentration or visit the Web site <http://www.ahs.uic.edu/kn/programs/nutrition.php/>.

Sixty-four semester hours, exclusive of basic military science, distributed as follows:

Note: Students who do not place into certain courses or do not carefully plan sequential course work should expect to take summer session courses or possibly take longer than two years to complete pre-nutrition course work.

| Courses | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| COMM 100—Fundamentals of Human Communication ^a | 3 |
| Understanding the Creative Arts course ^b | 3 |
| Understanding the Past course ^b | 3 |
| PSCH 100—Introduction to Psychology ^a | 4 |
| SOC 100—Introduction to Sociology ^{ac} | 3 |
| SOC 201—Introductory Sociological Statistics | 4 |
| CHEM 112—General College Chemistry I ^d | 5 |
| CHEM 114—General Chemistry II ^d | 5 |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM/BIOS 352—Introductory Biochemistry | 3 |
| BIOS 100—Biology of Cells and Organisms ^d | 5 |
| BIOS 350—General Microbiology ^a | 3 |
| BIOS 351—Microbiology Laboratory | 2 |
| MATH 121—Precalculus Mathematics ^f | 5 |
| HN 110—Foods | 3 |
| HN 196—Nutrition | 3 |
| Total Hours—Pre-Nutrition Course Requirements | 64 |

^a This course is approved for the Understanding the Individual and Society General Education category.

^b Students should consult the General Education section of the catalog for a list approved courses in this category.

^c This course is approved for the Understanding U.S. Society General Education category.

^d This course is approved for the Analyzing the Natural World General Education category.

^e Students are required to complete or be in-progress taking CHEM 232 if registered for this course.

^f Completion of MATH 121 may be satisfied through placement exam or CLEP.

The minimum GPA for application to the two programs in Nutrition is 2.50/4.00. However, the average GPA for students admitted to the Coordinated Program is higher (currently 3.60). Students should contact the Department of Kinesiology and Nutrition for admission deadlines <http://www.ahs.uic.edu/kn/programs/nutrition.php/>.

Pre-Pharmacy

The practice of pharmacy requires detailed knowledge of the physical and chemical properties of drugs as well as their particular biologic effects. Pharmacists practice in a

variety of settings, including community pharmacies, hospitals, drug industries, and government agencies. Pharmacists may provide patient care, teach at colleges and universities, or may perform pharmaceutical research.

The preprofessional course work listed below prepares the student to apply to the Doctor of Pharmacy program in the College of Pharmacy. The course work generally requires a minimum of two full-time academic years of study.

| Courses ^{ab} | Hours |
|---|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| One of the following communication courses: | 3 |
| COMM 100—Fundamentals of Human Communication(3) ^c | |
| COMM 102—Introduction to Interpersonal Communication (3) ^c | |
| BIOS 100—Biology of Cells and Organisms ^d | 5 |
| BIOS 101—Biology of Populations and Communities ^d | 5 |
| KN 251—Human Physiological Anatomy I ^e | 5 |
| KN 252—Human Physiological Anatomy II ^e | 5 |
| One of the following general chemistry sequences: | 10 |
| CHEM 112—General College Chemistry I (5) ^d | |
| CHEM 114—General College Chemistry II (5) ^d | |
| OR | |
| CHEM 116—Honors General Chemistry I (5) ^d | |
| CHEM 118—Honors General Chemistry II (5) ^d | |
| CHEM 232—Organic Chemistry I | 4 |
| CHEM 233—Organic Chemistry Laboratory I | 1 |
| CHEM 234—Organic Chemistry II | 4 |
| One of the following mathematics courses: | 5 |
| MATH 165—Calculus for Business (5) | |
| MATH 180—Calculus I (5) | |
| PHYS 105—Introductory Physics I—Lecture ^{df} | 4 |
| PHYS 106—Introductory Physics I—Laboratory ^{df} | 1 |
| PHYS 107—Introductory Physics II—Lecture ^{df} | 4 |
| PHYS 108—Introductory Physics II - Laboratory ^{df} | 1 |
| Social or behavioral sciences ^g | 3 |
| Economics ^g | 3 |
| Humanities ^g | 3 |
| Total Hours—Pre-Pharmacy | 72 |

^a If science courses were taken more than five years prior to admission application, students must have their transcripts evaluated by a College of Pharmacy admissions counselor.

^b Students completing a bachelor's degree at UIC must fulfill all the requirements of an undergraduate degree program, including General Education requirements. Students should consult their college and department sections of the catalog for information on completing their degree programs, including General Education requirements, as well as the General Education section of the catalog for a list of approved General Education courses in each category.

^c This course is approved for the Understanding the Individual and Society General Education category.

^d This course is approved for the Analyzing the Natural World General Education category.

^e KN 251/252 sequence begins in the fall term only.

^f Each of the following pairs of courses will be considered one course in meeting the LAS General Education requirements: PHYS 105/106; PHYS 107/108.

^g Students completing an undergraduate degree at UIC should meet with their academic advisor to select courses in the social or behavioral sciences, economics, and humanities that are approved for Exploring World Cultures, Understanding the Creative Arts, Understanding the Past, and Understanding U.S. Society General Education categories.

Students apply for admission to the College of Pharmacy through the centralized application service (PharmCAS) sponsored by the American Association of Colleges of Pharmacy, <http://www.PharmCAS.org>. Students should apply for admission approximately one year before enrollment. Pre-pharmacy students must take the Pharmacy College Admission Test (PCAT) prior to the PharmCAS application deadline. PCAT information is available online <http://www.pcatweb.info>. The PCAT must be from June 2007 or later.

The minimum GPAs (cumulative, science/math, pre-pharmacy) for application to the program in pharmacy are 2.75/4.00. A minimum grade of C must be earned in each pre-pharmacy course. Please note that C minus (C-) grades received at other academic institutions will not meet the minimum grade requirement regardless of the way UIC converts transfer grades into the UIC grade point system.

The College of Pharmacy accepts applications for the fall semester admission only. PharmCAS applications are available starting in June. The PharmCAS application deadline is December 1. A UIC College of Pharmacy supplemental application is also required. The supplemental application deadline is January 15.

Additional information regarding the admission/application process can be found on the College of Pharmacy Office of Student Affairs Web site http://www.uic.edu/pharmacy/student_affairs.

Pre-Elementary Education, Pre-Engineering, and Pre-Urban and Public Affairs

| Preprofessional Studies | Preprofessional Studies LAS Required Hours | UIC Professional College | Professional Degree Program |
|------------------------------|---|---|--------------------------------|
| Pre-Elementary Education | 58–67 | College of Education | BA in Elementary Education |
| Pre-Engineering | 60 | College of Engineering | BS in Bioengineering |
| | | | BS in Chemical Engineering |
| | | | BS in Civil Engineering |
| | | | BS in Computer Engineering |
| | | | BS in Computer Science |
| | | | BS in Electrical Engineering |
| | | | BS in Engineering Management |
| | | | BS in Engineering Physics |
| | | | BS in Industrial Engineering |
| | | | BS in Mechanical Engineering |
| Pre-Urban and Public Affairs | 60 | College of Urban Planning and Public Affairs | BA in Urban and Public Affairs |

Pre-Elementary Education, Pre-Engineering, and Pre-Urban and Public Affairs (see above)

Preprofessional studies in these areas require two years of undergraduate study prior to matriculation in the professional program. If admitted to the professional program, students complete the final two years of undergraduate study in the professional college and receive a bachelor's degree from the professional college.

Pre-Elementary Education

Freshman students who are preparing to teach at the elementary level enroll in the pre-elementary education curriculum of the College of Liberal Arts and Sciences. The course work outlined below includes the pre-elementary education requirements in the College of Liberal Arts and Sciences. Students should consult an advisor in the College of Education for information on additional courses necessary for admission to the Elementary Education program.

| Courses | Hours |
|--|-------|
| University Writing Requirement | |
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Choose one course^a from the following: | 3 |
| ENGL 101, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119 | |
| Choose one course^b from the following: | 3 |
| ANTH 100, 101, 214; GEOG 100, 101, 151; HIST 106, 109, 110, 141, 161, 177, 241, 242, 277, 278; LALS 101, 102, 105, 109; LING 170 | |
| PSCH 100—Introduction to Psychology ^c | 4 |
| POLS 101—Introduction to American Government and Politics ^d | 3 |
| Choose one course^e from the following: | 3 |
| HIST 103—American Civilization to the Nineteenth Century (3) | |
| HIST 104—American Civilization since the Late Nineteenth Century (3) | |
| NATS 101—Physical World ^f | 4 |
| NATS 102—Chemical World ^f | 4 |
| NATS 103—Biological World ^f | 4 |
| NATS 104—Project-Based Seminar in Natural Science | 1 |

Mathematics

| | |
|--|--------------|
| MATH 140—Arithmetic and Algebraic Structures | 4 |
| MATH 141—Algebraic and Geometric Structures | 4 |
| Area of Concentration courses (hours vary) | 15–24 |
| Total Hours—Pre-Elementary Education | 58–67 |

^a Each course on this list is approved for the Understanding the Creative Arts General Education category.

^b Each course on this list is approved for the Exploring World Cultures General Education category.

^c This course is approved for the Understanding the Individual and Society General Education category.

^d This course is approved for the Understanding U.S. Society General Education category.

^e Both of these courses are approved for the Understanding the Past General Education category.

^f This course is approved for the Analyzing the Natural World General Education category.

For further information on elementary education, consult the *College of Education* section of the catalog. Students should consult the College of Education for more detailed information on application procedures and deadlines. Students are advised to meet with an advisor in the College of Education, 3145 EPASW, on a regular basis for information on admission procedures and to keep up to date with changes that may be announced prior to the next publication of this catalog.

Pre-Engineering

Students planning to transfer to the College of Engineering must meet minimum criteria to be considered for admission, which includes 60 hours of completed course work. Applicants must have a minimum GPA of 2.50/4.00 if a resident of Illinois. Nonresidents must have a GPA of 2.75/4.00. The 60 semester hours required for admission should include the following courses:

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| One of the following courses: | 5 |
| CHEM 112—General College Chemistry I (5) ^a | |
| CHEM 116—Honors General College Chemistry I (5) ^a | |

| | |
|---|-----------|
| MATH 180—Calculus I ^b | 5 |
| MATH 181—Calculus II ^b | 5 |
| MATH 210—Calculus III ^b | 3 |
| MATH 220—Introduction to Differential Equations | 3 |
| PHYS 141—General Physics I (Mechanics) ^{ab} | 4 |
| PHYS 142—General Physics II (Electricity and Magnetism) ^{ab} | 4 |
| Exploring World Cultures course ^c | 3 |
| Understanding the Creative Arts course ^c | 3 |
| Understanding the Individual and Society course ^c | 3 |
| Understanding the Past course ^c | 3 |
| Understanding U.S. Society course ^c | 3 |
| Electives chosen in consultation with an advisor to reach total of 60 | 10 |
| Total Hours—Pre-Engineering | 60 |

^a These courses count toward the Computer Science requirement of 12 hours of laboratory science (BIOS, CHEM, EAES, or PHYS), including an 8-hour sequence and science electives chosen from a list of approved courses.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Students should consult the General Education section of the catalog for a list of courses in this category.

Foreign languages are not required by the College of Engineering and should be postponed for the freshman year. Thereafter, students should consult with an advisor in the College of Liberal Arts and Sciences or the College of Engineering.

Pre-Urban and Public Affairs

Students apply for admission through the College of Urban Planning and Public Affairs; admission into the Urban and Public Affairs program is selective and competitive.

1. Junior standing only (completion of 60 semester hours in Pre-Urban and Public Affairs in the College of Liberal Arts and Sciences, or from any accredited community college or four-year college or university).
2. A grade point average of 2.75/4.00
3. Phone or personal interview
4. Personal statement of educational goals
5. Availability of space
6. One college-level microeconomics course

Special consideration will be given to students who have completed courses in public and urban concerns and having some knowledge of economics and government, including the following courses (or their equivalents) from either a community college or a lower-division program in a four-year institution:

- UPA/UPP 101—Introduction to Urban Studies (3)
- UPA/UPP 202—Planning Great Cities (3)
- POLS 101, 210, 310, 313
- SOC 101, 105, 241, 265, 276

The 60 semester hours required for admission to the Bachelor of Arts in Urban and Public Affairs should include the following courses:

| Courses | Hours |
|---|-------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |

| | |
|--|-----------|
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (16 hours in a single language or equivalent) | 16 |
| Quantitative Reasoning course | 3–5 |
| Analyzing the Natural World course ^{ab} | 3–5 |
| Exploring World Cultures course ^a | 3 |
| Understanding the Creative Arts course ^a | 3 |
| Understanding the Individual and Society course ^{ac} | 3 |
| Understanding the Past course ^a | 3 |
| Understanding U.S. Society course ^{ac} | 3 |
| Additional General Education course(s) from any category ^{ac} | 4–6 |
| Free electives ^c | 11 |
| Total Hours—Pre-Urban and Public Affairs | 60 |

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b A laboratory course is recommended.

^c Recommended electives include a college-level microeconomics course; UPA/UPP 101 and UPA/UPP 202; POLS 101, 210, 310, 313; SOC 101, 105, 241, 265, 276. UPA/UPP 101 and UPA/UPP 202 are both approved for the Understanding U.S. Society General Education category. Students should consult the General Education section of the catalog to determine if any of the other recommended electives are approved General Education courses.

Pre-Law

| Preprofessional Studies | Preprofessional Studies Required Hours | Major | Bachelor's Degree Required for Admission to Professional College |
|-------------------------|--|-------|--|
| Pre-Law | Varies | Any | Yes |

The goal of pre-law studies at UIC is to give students the background necessary to be able to enter an accredited law school after graduation. Law schools require a bachelor's degree prior to matriculation. Pre-law students must choose an undergraduate major and complete all requirements for the degree.

Because there is no specific course of study required for admission to law school, pre-law students may select a major in any field for the bachelor's degree. The college, however, recommends a well-rounded program of electives, including course work in analytic areas such as mathematics, composition, and logic. All students with pre-law interest are encouraged to meet with the pre-law advisor as soon as possible to discuss their plans.

The Official Guide to U.S. Law Schools, prepared each year by Law Services, contains up-to-date admission requirements, program descriptions, and facts about tuition and financial aid. This guide may be purchased from the Law School Admissions Services, Box 2000, Newton, PA 18940–0977. A copy is also available in the pre-law advisor's office. Both provide important information about pre-law academic preparation, careers in law, the LSAT admissions test, strategies for applying to law school, etc.

UIC has a Guaranteed Professional Program Admissions arrangement with John Marshall School of Law for entering freshmen. More information on this program is available in the *Admissions* section of the catalog.

Accelerated Degree Program in Law

The University of Illinois at Chicago and the Chicago-Kent College of Law offer a six-year program that leads to the bachelor's degree from UIC and the Juris Doctor

degree from Chicago-Kent. Chicago-Kent College of Law, located in Chicago, is the law school of the Illinois Institute of Technology. The second oldest law school in Illinois, Chicago-Kent has a history marked by innovation and excellence. Chicago-Kent is accredited by the American Bar Association and is a member of the Association of American Law Schools and the Order of the Coif.

The Accelerated Degree Program is designed for students with a commitment to academic excellence who pursue a rigorous academic program including the completion of an LAS major and additional undergraduate work chosen in consultation with the pre-law advisor in the College of Liberal Arts and Sciences. Students apply before the beginning of the junior year.

Admission to the program is highly competitive. Among other requirements applicants must have a cumulative GPA of 3.25/4.00 and have completed 60 semester hours. Students interested in this program must consult with the LAS pre-law advisor during the sophomore year.

College of Nursing

Dean, Joan Shaver, RN, PhD, FAAN
118 College of Nursing (NURS)
(312) 996-7800

<http://www.uic.edu/nursing>

Administration: 133 NURS

Student Services and Academic Advising: Office of
Academic Programs, 133 NURS

Departments: Biobehavioral Health Science; Health
Systems Science; Women, Children and Family
Health Science

Introduction

The College of Nursing is recognized as one of the top colleges of nursing in the country and is internationally renowned for its nursing leadership. Exciting and challenging opportunities are available for capable, dedicated, and caring individuals who will be future leaders in healthcare. The University of Illinois School of Nursing was founded in 1951 and became the College of Nursing in 1959. The College of Nursing is located in close proximity to the Colleges of Applied Health Sciences, Dentistry, Medicine, Pharmacy, and the School of Public Health. The libraries and scientific and clinical resources make up one of the largest medical centers in the world.

The College of Nursing offers programs of study leading to the Bachelor of Science in Nursing; the Master of Science, including joint degree options with a Master of Business Administration, Master of Science in Health Informatics, and a Master of Public Health; and the Doctor of Philosophy and the Doctor of Nursing Practice with entry at the postbaccalaureate or postmaster's level. In addition, the college offers a Graduate Entry Program into the Master of Science. This program is specifically designed for students who hold baccalaureate degrees in other fields and want to pursue a master's degree in Nursing. This is not an accelerated baccalaureate degree, but rather a program for students who want to receive advanced training in any one of UIC's master's specialty programs. The college has three regional sites within the state: Central Illinois (dual location in Urbana and Peoria), Rockford, and Quad Cities. The Bachelor of Science in Nursing program is offered at the Chicago and Urbana sites. The Graduate Entry and PhD programs are offered at the Chicago site. The Master of Science and Doctor of Nursing Practice are offered at all sites. The RN/BSN program is offered online through the Global Campus.

Undergraduate Study in Nursing

The College of Nursing undergraduate program leads to the Bachelor of Science in Nursing. The curriculum is divided into three levels: foundation, middle, and terminal. The foundation level, freshman and sophomore years, includes those lower-division nonnursing courses that represent the basic learning necessary for the completion of the course of study. The middle level, junior year, includes most upper-division courses that prepare the graduate as a nurse generalist. The terminal level, senior year, represents those upper-division, senior-level courses at the end of the nursing program that synthesize previous learning.

The Bachelor of Science in Nursing provides students with the basic nursing preparation and eligibility to apply for the registered nursing licensing examination (NCLEX-RN). For students who are already licensed registered nurses and wish to further their education, the college offers an RN/BSN completion program.

Accreditation

College of Nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE) and approved by the Illinois Department of Financial and Professional Regulation (IDFPR). The college holds membership in the American Association of Colleges of Nursing (AACN).

Admissions

Applications to the BSN program are accepted for fall admission only. Students are admitted to the college in one of three ways: (1) intercollege transfer student, (2) transfer student; or (3) Guaranteed Professional Program Admissions (GPPA) student. The college offers early admission to applicants meeting certain requirements. Information on the application process and deadlines can be found at <http://www.uic.edu/nursing>.

Applications to the RN/BSN program are accepted year-round; information on the application process and deadlines can be found at <http://global.uillinois.edu>.

Admission Requirements

Students applying to the BSN program must meet the following minimum requirements:

1. 2.75/4.00 cumulative transfer grade point average
2. 2.50/4.00 natural science grade point average
3. Completion of all pre-nursing course work (see *Course Requirements—Pre-Nursing Studies*) with a grade of C or higher prior to enrollment. The five natural science courses (human anatomy and physiology I and II, microbiology, general chemistry, organic chemistry, or biochemistry) must have been completed within seven years of enrollment and three of the five natural science courses must be completed prior to the application deadline.

Pre-nursing course work can be completed at UIC through the College of Liberal Arts and Sciences or at another college or university. For information on course equivalencies for various colleges in Illinois, consult the UIC transfer guides at http://www.uic.edu/depts/oar/undergrad/transfer_guides.html.

Students with 3.25/4.00 cumulative transfer grade point average and a 2.80/4.00 natural science grade point average are eligible to apply for early admission. Early admission applicants that are not accepted in the early admission round will be considered again in the regular admissions period.

In addition, all students will be required to have a background check and drug test upon admission. If the results of either requirement indicate that a student would not be eligible for placement at the College's practicum agencies, the student's admission will be rescinded.

RN/BSN Program

In addition to meeting the admission requirements listed above, students applying to the RN/BSN program must have a current RN license. Students who apply for admission directly from a nonbaccalaureate nursing program must take the NCLEX-RN licensure examination at the first opportunity after graduation and present the RN license to the College prior to enrollment. Failure to pass the NCLEX-RN examination will result in cancellation of admission.

Students who have graduated from a state-approved associate's degree in nursing (ADN) program and who hold a current license as registered professional nurse will receive 33 semester hours of proficiency credit. The credit will be awarded upon successful completion of NUSC 210 and NUSC 242 in the RN/BSN program.

Freshman Admissions

The College of Nursing does not admit freshmen to the BSN program as there are two years of college level prerequisite courses required. Those seeking admission to UIC as freshmen should first apply to the College of Liberal Arts and Sciences and designate their major as undeclared. Students can list Pre-Nursing as their educational goal. Those seeking admission to the University of Illinois at Urbana-Champaign (UIUC) as freshmen should apply to either the College of Liberal Arts and Sciences or the College of Applied Health Sciences, both of which provide an advising track for students interested in several health professions. More information on admission to UIUC can be found at <http://illinois.edu/>.

Guaranteed Professional Program Admissions (GPPA)

The Guaranteed Professional Program Admissions (GPPA) gives academically talented freshmen applicants the opportunity to be admitted to UIC with admission guaranteed to the College of Nursing BSN program if undergraduate course and performance criteria are met. For more information, please see the Guaranteed Professional Program Admissions section of this catalog.

Degree Requirements

To earn the Bachelor of Science in Nursing degree from UIC, students need to complete the degree requirements of the University and college that are in effect at the time of initial registration. It is essential for each student to become familiar with the degree requirements stated in this catalog and to keep up-to-date with published changes. If requirements change, continuing students and those whose attendance at UIC has been interrupted for no more than two years may elect to complete the new graduation requirements or may continue to fulfill those requirements in effect at the time of initial registration. Students who return to UIC after an absence of more than two years are responsible for meeting the requirements of the University and college in effect at the time of reenrollment. If courses originally required are no longer offered, the college has the prerogative of specifying substitutes.

Note: The college retains the right to change educational policy and graduation requirements at any time. This may affect currently enrolled students' standing.

Semester Hour Requirement

The College of Nursing semester hour requirement is 120 semester hours. UIC students complete the first two years of the program in Pre-Nursing Studies through the College of Liberal Arts and Sciences. If admitted to the College of Nursing, students complete the final two years in the Nursing curriculum. Please see *Preprofessional Studies* in the *College of Liberal Arts and Sciences* section of the catalog for more information on Pre-Nursing.

| Degree Program | Degree Conferred | Total Hours |
|----------------|------------------|-------------|
| Nursing | BS in Nursing | 120 |

BS in Nursing—Degree Requirements

| BS in Nursing Degree Requirements | Hours |
|---|------------|
| Pre-Nursing Studies | 57 |
| Course Requirements in the College of Nursing | 61 |
| Nursing Electives/Selectives | 2–5 |
| Total Hours—BS in Nursing | 120 |

Course Requirements—Pre-Nursing Studies

| Courses | Hours |
|--|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| BIOS 350—General Microbiology ^a | 3 |
| CHEM 112—General College Chemistry I ^b | 5 |
| CHEM 130—Survey of Organic and Biochemistry ^b | 5 |
| KN 251—Human Physiological Anatomy I | 5 |
| KN 252—Human Physiological Anatomy II | 5 |
| NUSC 250—Human Development across the Life Span | 3 |
| HN 196—Nutrition | 3 |
| Exploring World Cultures course ^c | 3 |
| Understanding the Creative Arts course ^c | 3 |
| Understanding the Individual and Society course ^{cd} | 3 |
| Understanding the Past course ^c | 3 |
| Understanding U.S. Society course ^{cd} | 3 |
| One 3-semester-hour, 200-level, upper-division course in any General Education category ^e | 3 |
| LAS electives | Varies |
| Total—Pre-Nursing Studies | 57 |

^a BIOS 100 is a prerequisite for this course.

^b This course is approved for the Analyzing the Natural World General Education category.

^c Students should consult the General Education section of the catalog for a list of approved courses in this category.

^d For the Understanding the Individual and Society requirement, PSCH 100—Introduction to Psychology is recommended; for the Understanding U.S. Society requirement, SOC 100—Introduction to Sociology is recommended.

^e This requirement may be completed after admission to the BSN program.

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. As outlined in the *Pre-Nursing Studies* course list, College of Nursing students meet the University's General Education Core requirement of a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses for each General Education Core category, students should consult the *General Education* section of the catalog.

General Education Proficiencies—University Writing Requirement

As noted in the *Pre-Nursing Studies* course list, College of Nursing students meet the requirement by achieving a passing grade in English 160 and 161.

Course Requirements in the College of Nursing: BSN

| Required Courses | Hours |
|--|-----------|
| NUSC 202—Concepts and Processes of Professional Nursing | 3 |
| NUSC 210—Health Assessment | 3 |
| NUSC 215—Pathophysiology and Applied Pharmacology I | 4 |
| NUSC 217—Pathophysiology and Applied Pharmacology II | 3 |
| NUSC 225—Introduction to Clinical Concepts and Processes | 6 |
| NUSC 322—Introduction to Nursing Research and Statistics for Evidence-Based Practice | 4 |
| NUSC 335—Clinical Concepts and Processes in Adult Health | 6 |
| NUSC 345—Clinical Concepts and Processes in Women's and Family Health | 5 |
| NUSC 355—Clinical Concepts and Processes in Children's and Family Health | 5 |
| NUSC 365—Clinical Concepts and Processes in Mental Health | 5 |
| NUSC 375—Concepts and Processes in Older Adult Health | 3 |
| NUSC 385—Clinical Concepts and Processes in Population-Focused Nursing | 5 |
| NUSC 390—Nursing Leadership and Management in Healthcare | 6 |
| NUSC 397—Issues in Nursing Practice | 3 |
| Nursing Electives | 2 |
| Total—Required Nursing Courses | 63 |

Course Requirements in the College of Nursing: RN/BSN

| Required Courses | Hours |
|--|-----------|
| NUSC 210—Health Assessment | 3 |
| NUSC 242—Concepts and Processes for Contemporary Nursing Practice | 4 |
| NUSC 322—Introduction to Nursing Research and Statistics for Evidence-Based Practice | 4 |
| NUSC 385—Clinical Concepts and Processes in Population-Focused Nursing | 5 |
| NUSC 390—Nursing Leadership and Management in Healthcare | 6 |
| NUSC 397—Issues in Nursing Practice | 3 |
| Nursing Electives | 5 |
| Total Hours—Required Nursing Courses | 30 |

Other Requirements

Grade Point Average (GPA) Requirement

All students are required to satisfactorily complete with a minimum grade of C all required LAS and nursing courses and maintain a cumulative and nursing grade point average of 2.00/4.00.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Enrollment Residence Requirement

At a minimum, the last 30 semester hours of university work must be taken at the University of Illinois at

Chicago. Concurrent attendance at the University of Illinois at Chicago and another collegiate institution or enrollment during the summer at another institution, when approved by the student's college, does not interrupt the UIC enrollment residence requirement for graduation.

College Policies

Academic Load

To be considered full-time, a student must be enrolled in a minimum of 12 semester hours fall and spring terms. During the regular academic year, an academic course load exceeding 18 semester hours must be approved in the College Office of Academic Programs.

Academic Probation and Dismissal Rules

Probation Rules

A cumulative grade point average is calculated. When the nursing or cumulative grade point average is below 2.00/4.00, the student is placed on probation.

A student not currently on academic probation will be placed on academic probation at the end of any term in which the student earns less than a 2.00/4.00 in nursing, nonnursing, or cumulative grade point average.

A student currently on academic probation will be continued on academic probation when:

1. The student meets the grade point average required by the conditions of his or her probation but does not raise the cumulative UIC grade point average to at least 2.00/4.00; or
2. The student meets the grade point average required by the conditions of his or her probation but does not raise the combined average of the student's transfer and UIC course work to at least 2.00/4.00.

The Admissions and Academic Standards Committee-Baccalaureate determines the conditions of probation. In addition to specifying the grade point average, the committee may require the completion of specific courses, may limit the number or hours for which the student registers, and may exclude the student from taking certain courses while on probation.

Dismissal Rules

1. A student on academic probation will be dismissed in any term in which the student fails to meet the grade point average required by the probation and in which the cumulative grade point average in courses taken at UIC is less than 2.00/4.00.
2. A student on academic probation will be dismissed in any term in which the student fails to meet the grade point average required by the probation and in which the combined transfer and UIC grade point average is less than 2.00/4.00.
3. A student who fails to make progress toward a degree may be dismissed. Examples include failure to complete required courses, accumulation of an excessive number of Incomplete grades, failure to earn credit in any semester, failure to maintain a C average in nursing.
4. Students may not earn more than one grade below C in nursing courses during the entire academic program, in either the same or two different nursing courses. When a student receives a second grade below C in a nursing course, the student will be dismissed from the college, withdrawn for academic failure.
5. Students dismissed from the college will also be dismissed from the University.

Change of Course Schedule— Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program.

College of Nursing students who wish to make changes to their registration must first meet with their academic advisor.

Class Attendance

Classroom

Attendance at all classroom sessions is expected. Students are expected to prepare for each class by completing the required readings and other assignments (e.g., viewing videotapes, listening to audiotapes).

Discussion Groups

Discussion groups are a critical component of many courses. Attendance and participation are expected. Attendance will be taken during discussion group times to assure participation. If the student is unable to attend discussion group due to an accident, illness, or injury, the student must contact the course coordinator to make up any work that is missed.

Laboratory Sessions

Attendance at all laboratory sessions is expected. In the event that a student misses a laboratory session due to illness or personal emergency, the student will make arrangements to complete the session and the assigned exercise. Failure to do so will result in the student's grade being lowered, and the student may not be able to progress to the next lab session until the make-up is completed.

Practicum Sessions

Practicum attendance is expected. Students must be prepared for the practicum experience. If a faculty member determines that the student is not prepared to participate fully in the practicum experience, the faculty member may ask the student to leave or not to participate in certain activities. The student's performance for the day will be considered unsatisfactory and will influence the practicum evaluation. If written assignments are required, a grade of zero will be given. Students should refer to the course syllabi for policies regarding absence or late practicum assignments. In the event of illness or a personal emergency, students must notify the practicum instructor per the instructions in the course syllabus.

Students must attend all practicum orientations for their assigned agency. If students are not present, they may not be allowed to continue in the course. Opportunities for making up excused or unexcused absences are not available. Any absence may affect the grade. Absences of more than 15% of the total practicum hours may result in the student's need to repeat the course before progressing in the program.

Petition Procedure

Students may petition the college's director of academic programs for exceptions to certain college regulations, but should do so only after consulting with their advisor, whose recommendations must appear on the petition. Petition forms may be obtained in the Office of Academic Programs. Petition forms must be accompanied by a full explanation of the circumstances and any appropriate supporting documents. Petitions should be filed within thirty (30) days of the time an individual knows, or reasonably should have known, that an occurrence has affected his or her status. Petitions can take 4–6 weeks to be reviewed and a decision made.

Registration Approval

The College of Nursing has a mandatory advising policy. Before registering for courses each semester, students must meet with their advisor to discuss their degree plan and to clear their advising hold.

Repeat Policy for Standard Graded Courses

If a student does not receive a C grade or higher in a nursing course, the student is required to repeat the course. A student may repeat a nursing course or its equivalent only once. If a grade of C or higher is not earned at the end of the second registration in a nursing course or its equivalent, the student will be dismissed from the college.

A nonclinical nursing course in which a grade below C is received must be repeated the first term the course is offered again.

A clinical nursing course in which a grade below C is received must be repeated the first term in which space is available and prior to enrolling in any other clinical course.

The original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course is not automatic. The student must initiate a request in the college Office of Academic Programs as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

More information on the University repeat policy for standard graded courses can be found in the *University Degree Requirements, Graduation, and Commencement* section of this catalog.

Transferring

Intercollege Transfer Students

See previous section on *Admissions*.

Transfer Students from Other Colleges and Universities

See previous section on *Admissions*.

Requirements for All Students

Accommodation

Students requesting an accommodation for disabilities should contact the Disability Resource Center at (312) 413-2183 (voice) or (312) 413-0123 (TTY only) or http://www.uic.edu/depts/oa/disability_resources/index.html.

The Disability Resource Center will evaluate the student's request and make recommendations to the College of Nursing. The college will determine if the recommendations can be met. No accommodations can be made until the student's situation is evaluated by the Disability Resource Center.

Alcohol and Controlled Substances

The use of alcohol and illegal use of controlled substances, including alcohol can seriously injure the health of students, impair their performance of their responsibilities, and endanger the safety and well-being of fellow students and members of the general public. Students who are engaged in clinical work at a practicum site may be required to submit to random tests for illegal use of controlled substances as provided by the law or regulations of the contracting agency. Just cause for student disciplinary action includes, but is not limited to, use or unauthorized possession of intoxicants, controlled or illegal substances, or materials dangerous to public health and safety. It is not acceptable to use alcohol or illegal drugs prior to or during class or clinical. Immediate disciplinary action will be taken.

Background Check and Drug Testing

All students will be required to have a background check and drug test upon admission. If the results of either requirement indicate that the student would not be eligible for placement at the College's practicum agencies, the student's admission will be rescinded. Students may be required to repeat either requirement should the practicum agency require more frequent testing. If at any time during the period of enrollment, the student's background check or drug test results preclude placement in a practicum agency, the student will be required to withdraw from the program. Students at time of application for licensure will be required to submit to fingerprinting and be reviewed for eligibility by the Illinois Department of Financial and Professional Regulation (IDFPR).

Citizenship

Undocumented students are eligible to sit for licensure at time of graduation. However, the Illinois Department of Financial and Professional Regulation (IDFPR) requires resolution of the citizenship status within two years from date of initial licensure.

CPR Certification

Students must hold current CPR certification prior to enrolling in their first practicum course. Certification must be at the level of professional or healthcare worker rescuer, which includes the use of the AED, one and two man rescues for all ages, cricoid pressure, and the use of external

inhalation devices. Students who do not provide this documentation will not be allowed to participate in practicum experiences.

Immunization

Students must complete Parts I, II, and III on the University of Illinois Medical Immunization Form and the UIC College of Nursing Mandatory Medical Student Immunization Form. Students must document proof of immunity against measles, mumps, German measles, polio, diphtheria/tetanus, hepatitis B, sz and chicken pox. Annual testing for tuberculosis is also required. Students should retain a copy of their immunization record and make it available for verification at the first day of class for each practicum course. Students who do not provide this documentation will not be allowed to participate in practicum experiences. Students are required to keep all immunizations current throughout their enrollment.

Transportation

Each student is responsible for his or her own transportation to all practicum sites. These sites may be located some distance from the College of Nursing and public transportation may not always be available. Therefore, students need a car. Students without a car will need to find alternative methods of transportation.

Academic Advising

Advising Policy

Prior to admission to the College of Nursing, advice on acceptance of transfer credit is available in the College Office of Academic Programs. Following admission, students are assigned an advisor who will assist them with course and career planning. Mandatory advising is required each term.

Academic Honors

College Honors

At commencement, students are awarded College Honors for academic distinction. College Honors shall be awarded to the top 15% of students based on their nursing grade point average. Students will be awarded with an Honor Cord. Graduation with College Honors benefits students when they are being considered for job placement, graduate school, and other competitive opportunities.

Dean's List

Outstanding academic achievement in the College of Nursing is recognized by inclusion on the Dean's List. Eligibility is based on a 3.35/4.00 term grade point average with a program of 12 semester hours of letter grades in a semester.

Sigma Theta Tau

The College of Nursing has the Alpha Lambda chapter of Sigma Theta Tau, the International Honor Society in Nursing. The purposes of the society are to recognize achievement of superior scholarship and the development of leadership qualities, foster high professional standards, encourage creative work, and strengthen the commitment by individuals to the ideals and purposes of the profession of nursing. Seniors and graduate students are eligible for membership.

Sample Curricula

BSN

Junior Year

| Fall Semester | Hours |
|--|-----------|
| NUSC 202—Concepts and Processes of Professional Nursing | 3 |
| NUSC 210—Health Assessment | 3 |
| NUSC 215—Pathophysiology and Applied Pharmacology I | 4 |
| NUSC 225—Introduction to Clinical Concepts and Processes | 6 |
| Total Hours | 16 |

| Spring Semester | Hours |
|---|--------------|
| NUSC 217—Pathophysiology and Applied Pharmacology II | 3 |
| Two courses from NUSC 335, 345, 355, 365 | 10–11 |
| NUSC 375—Concepts and Processes in Older Adult Health | 3 |
| Total Hours | 16–17 |

Senior Year

| Fall Semester | Hours |
|--|--------------|
| Two courses from NUSC 335, 345, 355, 365, 385 | 10–11 |
| NUSC 322 – Introduction to Nursing Research and Statistics for Evidence-Based Practice | 4 |
| Total Hours | 14–15 |

| Spring Semester | Hours |
|--|-----------|
| NUSC 365 or 385 | 5 |
| NUSC 390—Nursing Leadership and Management in Healthcare | 6 |
| NUSC 397—Issues in Nursing Practice | 3 |
| Nursing Elective | 2 |
| Total Hours | 16 |

RN/BSN

| Courses are eight weeks in length: | Hours |
|--|-----------|
| NUSC 210—Health Assessment | 4 |
| NUSC 242—Concepts and Processes for Contemporary Nursing Practice | 3 |
| NUSC 385—Clinical Concepts and Processes in Population-Focused Nursing | 5 |
| NUSC 310—Exploring Complementary/Alternative Practices | 2 |
| NUSC 322—Introduction to Nursing Research and Statistics for Evidence-Based Practice | 4 |
| NUSC 316—Nursing Informatics | 3 |
| NUSC 390—Nursing Leadership and Management in Healthcare | 6 |
| NUSC 397—Issues in Nursing Practice | 3 |
| Total Hours | 30 |

College of Pharmacy

Dean, Jerry L. Bauman
145 College of Pharmacy (PHARM)
(312) 996-7242

pharmosa@uic.edu

<http://www.uic.edu/pharmacy/>

Administration:

Executive Associate Dean, Janet P. Engle

Associate Dean for Academic Affairs, Marieke Dekker
Schoen

Associate Dean for Business Development and
Philanthropy, James D. Bono

Associate Dean for Research and Graduate Education,
William T. Beck

Associate Dean for Student Affairs, Thomas TenHoeve III

Assistant Deans for Student Affairs, Debra Agard, Jean
M.B. Woodward

Assistant Dean for Urban Affairs, Clara Awe

Departments:

Head, Department of Biopharmaceutical Sciences,
William T. Beck

Head, Department of Medicinal Chemistry and
Pharmacognosy, Judy L. Bolton

Head, Department of Pharmacy Administration, Nicholas
G. Popovich

Head, Department of Pharmacy Practice, Janet P. Engle

Introduction

Founded in 1859, the University of Illinois College of Pharmacy is currently the 3rd oldest college of pharmacy in the nation and the oldest college in the entire University of Illinois system. It has a long distinguished legacy for excellence in education and research and is considered one of the very best colleges of pharmacy in the U.S. The college's six-story building provides classrooms, multimedia lecture halls and auditoriums, research, teaching, and dispensing laboratories. A learning resources center including up-to-date PCs is housed in the college. A lounge and locker space are available for student use.

In addition to its educational activities, the College of Pharmacy provides clinical and distributive services to patients seeking care at the University of Illinois Medical Center and Clinics. This service function is coupled with the educational programs of the college to provide maximum exposure to contemporary pharmacy practice. Inpatient, outpatient, and satellite pharmacies in community health centers are part of the network of pharmacy services in which the college is engaged.

In direct response to the continued shortage of pharmacists in Illinois and the need to train pharmacists to practice in rural areas of the state, the University of Illinois at Chicago College of Pharmacy has created the University of Illinois College of Pharmacy at Rockford as a regional campus. The Rockford Program will admit its first class of 50 students in the fall of 2010 and graduate its first class in the spring of 2014. The College will provide all four years of pharmacy education at the Rockford campus. The first three years will be didactic with early practice experiences, followed by a series of six, six-week advance rotations conducted at sites in the Rockford area as well as throughout Illinois. The College of Pharmacy will be viewed as a single institution with one accreditation but two campuses: Chicago and Rockford. Students in Rockford will complete the identical curriculum as students on the Chicago campus. The core classes will be taught via distance education using state-of-the-art technology. Laboratory and recitation sessions, as well as many electives, will be taught locally by faculty at the Rockford campus. Select students will be admitted to the Rural Pharmacy (RPharm) program. These students will have rural backgrounds and will

receive training and mentorship focusing on the healthcare needs of rural communities in Illinois. Students in this program will train collaboratively with medical students from the University of Illinois College of Medicine at Rockford Rural Medicine (RMED) program to help prepare them to meet the health care needs of rural communities.

Doctor of Pharmacy Degree

To earn the Doctor of Pharmacy (PharmD) degree at UIC, a prospective applicant will have to complete a minimum six years of study. The first two years of pre-pharmacy course work can be accomplished at any accredited college or university. The final four years of professional education are to be completed at the UIC College of Pharmacy. The prospective applicant is advised to contact the Office of Student Affairs (OSA) at the College of Pharmacy for further information at (312) 996-7242 or to obtain information at the OSA Web site http://www.uic.edu/pharmacy/student_affairs.

Accreditation

The University of Illinois at Chicago Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 20 North Clark Street, Suite 2500, Chicago, Illinois 60602-5109, (312) 664-3575, (800) 533-3606; fax: (312) 664-4652, <http://www.acpe-accredit.org/>.

Admission

New students may begin only in August each year. Students are admitted to the college one of three ways: (1) new student; (2) Guaranteed Professional Program Admissions (GPPA) student; or (3) transfer student.

High School Preparation

Biology, chemistry, mathematics, and physics are the foundations for courses at the College of Pharmacy. Humanities, social studies, and communication skills are also important. Prospective students should take the highest level of a challenging college preparatory course of study that includes at least one year, preferably two years each, of precalculus mathematics that includes algebra, trigonometry, and geometry; calculus; biology; chemistry; and four years of English or speech. Physics is highly recommended. Computer literacy is a valuable asset to all college students.

Admission Policy

The College of Pharmacy Admissions Committee is responsible for admitting students to the program. Committee members are nominated by the faculty and, upon recommendation of the dean, are appointed by the chancellor. The committee is charged with the responsibility of formulating admission requirements, with the approval of the faculty, the University Senate, the University Admissions Committee, and the Board of Trustees. The goal of the committee is to identify candidates with the greatest potential for mastering both the knowledge and clinical competencies required for innovative clinical pharmacy practice and to admit students across all socioeconomic and ethnic groups.

Admission to the college is selective and highly competitive. Admission criteria include demonstrated academic ability in pre-pharmacy programs, good moral character, proficiency and clarity in both written and spoken English, strong potential for professional outlook and behavior, evidence of leadership and maturity, and complete mental and physical competence to perform all tasks regularly expected of a registered pharmacist.

UIC

The college gives preference to applicants who are residents of Illinois. A conscious effort is made to select students to ensure a broad geographical distribution throughout the state of Illinois. The college seeks to admit applicants who can reasonably be expected to become educated graduates able to assume responsible positions in the healthcare profession and be leaders in civic and public affairs. Positive actions shall be taken to ensure, as far as possible, that applicants admitted to the college remain within the state and are willing, if necessary, to practice in areas with low pharmacist-to-patient ratios.

Students seeking a return to the college after an absence of one or more semesters are considered for readmission on the basis of the curriculum effective at the time of their return.

Applicants accepted for admission who fail to enroll and who wish to enter in a subsequent year must reapply for admission through Pharmacy College Application Service (PharmCAS) and must meet all requirements in effect at the later time. They need not retake the PCAT but must arrange for a report of scores to be sent to PharmCAS.

Matriculation and Continued Enrollment Policy

If selected for admission to the Doctor of Pharmacy program at the University of Illinois at Chicago, the student must be willing:

1. To provide verification of immunity status as dictated by University immunization and clinical education requirements;
2. To be in possession of a valid Illinois pharmacy technician license in good standing at all times or such licenses as required by the Illinois Department of Financial and Professional Regulation (IDFPR);
3. To provide one's own transportation to off-campus pharmacy practice experience sites;
4. To be in compliance with HIPAA requirements; and
5. To meet any other requirements, such as criminal background checks and drug screenings.

Failure to comply with the conditions above will result in refusal of further registration for course work.

Guaranteed Professional Program Admissions (GPPA)

The GPPA gives highly motivated and academically outstanding senior high school students an opportunity to be guaranteed admission into the College of Pharmacy. Students must demonstrate superior academic performance prior to their application and continued academic success prior to enrollment in the College of Pharmacy.

Students must meet the following minimum requirements to be considered for GPPA pharmacy admission:^a

- have a minimum ACT composite score of 28 or SAT score of 1240;
- rank in the top 15% of the high school class; and,
- agree to meet College of Pharmacy Conditions of Acceptance.

College of Pharmacy GPPA Conditions of Acceptance^b

Students must:

- earn a baccalaureate degree at UIC prior to entry into the College of Pharmacy [Students may choose to apply to the College of Pharmacy without completing a baccalaureate degree, but forfeit their GPPA status when doing so.];

- complete pre-pharmacy course work at the University of Illinois at Chicago within five years from the beginning of the freshman year;
- complete a minimum of 12 semester hours each term;
- receive a grade of C or better in every prerequisite course [Courses in which a grade below C is obtained must be retaken. Both grades will be used in the GPA calculation.];
- achieve a minimum cumulative grade point average of 3.50/4.00 to remain in the GPPA pharmacy program [Students who achieve a first-semester GPA below 3.50 and at/above 3.25 will be put on probation and given until the end of the semester to raise their cumulative GPA to 3.50.]; and
- complete all pre-pharmacy course work by the spring semester of the year of matriculation into the college [i.e., no prerequisite courses taken during the summer prior to matriculation into the college will be accepted.].

In addition, students must:

- enroll in the Honors College and fulfill all requirements for continued membership;
- take the Pharmacy College Admissions Test (PCAT) and submit scores to UIC by December of the year prior to matriculation into the college [These scores are used for evaluation and tracking purposes.]; and,
- complete an application into the College of Pharmacy prior to the year of matriculation using the PharmCAS and supplemental applications.

Every semester, students must:

- request that transcripts be sent to the Office of Student Affairs, College of Pharmacy, including for summer sessions [Transcripts should be directed to the attention of the GPPA Coordinator, College of Pharmacy MC 874.]; and,
- meet with a College of Pharmacy admissions counselor or the GPPA coordinator to discuss progress.

Upon satisfactory completion of these conditions and all College of Pharmacy requirements, a seat will be reserved at the UIC College of Pharmacy's Chicago campus. Requests to attend the UIC College of Pharmacy's Rockford campus will be reviewed on a case-by-case basis in the academic year prior to matriculation.

To obtain an application and more information, contact the University's Office of Admission and Records, (312) 413-7628. For information, an application, or application status questions visit the Web site http://www.uic.edu/depts/oa/spec_prog/gppa/contacts.htm.

Program contacts at the College of Pharmacy (154 PHARM) are as follows: Paula Fleming, Admissions Counselor, (312) 996-2329 or pfleming@uic.edu and Jean Woodward, Assistant Dean and GPPA Coordinator, (312) 355-3398 or jmbwood@uic.edu.

^a Not all students meeting the minimum requirements for the GPPA program are admitted. Admission is competitive and space is limited each year.

^b These conditions are subject to change. The most current list can be found online http://www.uic.edu/depts/oa/spec_prog/gppa/conditions.html.

New Students

Applicants to the College of Pharmacy must complete a minimum of 60 semester hours of pre-pharmacy course work. Pre-pharmacy courses may be taken at the UIC College of Liberal Arts and Sciences (see the Preprofessional Studies section of the catalog) or at any accredited college or university (see the appropriate pre-pharmacy guides online <http://www.uic.edu/pharmacy/prepharmacyguides>) and must be completed by the end of the spring semester the year the applicant wishes to matriculate. The pre-pharmacy course work includes the following:

| Pre-Pharmacy Requirements | Minimum Semester Hours | Minimum Quarter Hours |
|--|------------------------|-----------------------|
| Written communication | 6 | 9 |
| Verbal communication | 2 | 3 |
| General biology, with laboratory | 8 | 12 |
| General chemistry, with laboratory | 8 | 12 |
| Organic chemistry, with laboratory | 8 | 12 |
| Physics, with laboratory (may be noncalculus based) | 8 | 12 |
| Calculus (integral and differential) | 3 | 4 |
| Human anatomy (all organ systems) | 4 | 5 |
| General education ^a | | |
| Social or behavioral sciences ^b | 3 | 4 |
| Economics ^b | 3 | 4 |
| Humanities ^b | 3 | 4 |
| Electives | 0–4 | 0–9 |
| Total Pre-Pharmacy Course Work | 60 | 90 |

^a Students completing an undergraduate degree at UIC must complete the General Education requirements. Students should consult the General Education section and their college/department sections of the catalog for more information on fulfilling these requirements.

^b Students completing an undergraduate degree at UIC should meet with their academic advisor to select courses in the social or behavioral sciences, economics, and humanities that are approved for Exploring World Cultures, Understanding the Creative Arts, Understanding the Individual and Society, Understanding the Past, and Understanding U.S. Society General Education categories.

General Education Core

Students completing an undergraduate degree at UIC must complete the General Education Core. Students should consult the *Preprofessional Studies*, *General Education*, and their college/department sections of the catalog as well as their advisor for more information on completing the General Education Core as part of their pre-pharmacy course work and chosen degree program.

General Education Proficiencies—University Writing Requirement

Students meet the requirement by achieving a passing grade in English 160 and 161.

New Student Admission

To be considered for admission to the PharmD Program, candidates must:

1. Complete all pre-pharmacy course work with a C grade or better by the end of the spring semester of the admission year. C- (C minus) grades must be repeated. All pre-pharmacy courses must be taken on a graded basis.
2. Have cumulative, pre-pharmacy, and science/math grade point averages of 2.75/4.00 or better at the time of application and thereafter. Repeated classes must be calculated into these grade point averages.

3. Complete a PharmCAS application by December 1 of the year prior to admission and keep the PharmCAS record up to date at all times (<http://www.PharmCAS.org>).
4. Complete and submit supplemental materials directly to the UIC College of Pharmacy by January 15 of the admission year (http://www.uic.edu/pharmacy/student_affairs).
5. Take the PCAT (Pharmacy College Admissions Test) prior to the December 1 application deadline. All applicants must take the version of the PCAT offered June 2005 or after (writing subtest included). Scores must be submitted directly to PharmCAS (Code 104), not to UIC.
6. Score 550 (paper-based)/213 (computer-based)/80 (Internet-based) or better on the TOEFL (Test of English as a Foreign Language) if most of the applicants' college education was completed in a non-English speaking country. TOEFL results must be submitted to PharmCAS (Code 8246) by the December 1 application deadline. Please note that TOEFL scores over two years old are invalid.
7. If selected, participate in an on-site admission interview and assessment of written and verbal communication skills.

Transfer Students

The University of Illinois at Chicago College of Pharmacy will consider for transfer admission students who began their pharmacy education at other ACPE-accredited schools of pharmacy if they meet the criteria and if they are willing to accept curricular adjustments as a result of changing schools. Credit for, and waivers from enrolling in, certain courses may be awarded to transfer students who have already completed courses evaluated as equivalent to comparable courses in the University of Illinois at Chicago College of Pharmacy PharmD curriculum. Pharmacy school curricula vary considerably. As a result, transfer students are often required to repeat courses in order to fulfill graduation requirements. Students may only transfer into the didactic curriculum. No consideration will be given to students who wish to transfer solely to complete their clerkships at University of Illinois at Chicago College of Pharmacy sites. In addition, a minimum of 3 years in enrollment residence as a full-time student in a college or school of pharmacy is required to receive the PharmD degree from the University of Illinois at Chicago.

Transfer students will only be considered for fall semester admission. Application materials must be submitted to the University of Illinois at Chicago College of Pharmacy, Office of Student Affairs, 833 South Wood Street, Room 154 (MC 874), Chicago, IL 60612 by February 15. See the College of Pharmacy Office of Student Affairs Web site for full details http://www.uic.edu/pharmacy/student_affairs.

Degree Requirements

To earn a Doctor of Pharmacy degree from UIC, students need to complete didactic course work, introductory pharmacy practice experiences (IPPE), and advanced pharmacy practice experiences (APPE). These degree requirements are outlined below.

| Summary of PharmD Hours | Hours |
|---|------------|
| Total core hours (excluding IPPE and APPE) | 85 |
| Total professional elective hours | 12 |
| Total experiential credit hours (IPPE and APPE) | 36 |
| Total Required for PharmD | 133 |

Doctor of Pharmacy Curriculum Requirements**First Year**

| Fall Semester | Hours |
|--|--------------|
| PHAR 331—Fundamentals of Drug Action I | 5 |
| PHYB 301—Human Physiology and Pathophysiology I | 5 |
| PHAR 321—Drug Delivery Systems I | 3 |
| PHAR 441—Roles, Environments, and Communications | 3 |
| Electives ^a | 0–2 |
| Total Hours | 16–18 |

| Spring Semester | Hours |
|--|--------------|
| PHAR 332—Fundamentals of Drug Action II | 4 |
| PHYB 302—Human Physiology and Pathophysiology II | 5 |
| PHAR 322—Drug Delivery Systems II | 3 |
| PHAR 400—Pharmacokinetics | 3 |
| PHAR 342—Experiential I - IPPE | 2 |
| Electives ^a | 0–1 |
| Total Hours | 17–18 |

Second Year

| Fall Semester | Hours |
|--|--------------|
| PHAR 333—Fundamentals of Drug Action III | 4 |
| PHAR 323—Drug Delivery Systems III | 3 |
| PHAR 401—Principles of Drug Action and Therapeutics I | 3 |
| PHAR 402—Principles of Drug Action and Therapeutics II | 4 |
| PHAR 352—Experiential II - IPPE | 2 |
| Electives ^a | 0–1 |
| Total Hours | 16–17 |

| Spring Semester | Hours |
|---|--------------|
| PHAR 324—Contemporary Pharmacy Practice | 3 |
| PHAR 343—Pharmacy Systems Management | 2 |
| PHAR 455—Drug Information and Statistics | 4 |
| PHAR 403—Principles of Drug Action and Therapeutics III | 3 |
| PHAR 404—Principles of Drug Action and Therapeutics IV | 3 |
| PHAR 344—Social and Behavioral Pharmacy | 2 |
| Electives ^a | 0–1 |
| Total Hours | 17–18 |

Third Year

| Fall Semester | Hours |
|--|--------------|
| PHAR 405—Principles of Drug Action and Therapeutics V | 3 |
| PHAR 406—Principles of Drug Action and Therapeutics VI | 3 |
| PHAR 346—Pharmacy Services and Reimbursement | 2 |
| PHAR 445—Pharmacy Law | 3 |
| PHAR 353—Experiential III - IPPE | 2 |
| Electives ^a | 2–5 |
| Total Hours | 15–18 |

| Spring Semester | Hours |
|--|--------------|
| PHAR 407—Principles of Drug Action and Therapeutics VII | 4 |
| PHAR 408—Principles of Drug Action and Therapeutics VIII | 3 |
| PHAR 354—Experiential IV - IPPE | 2 |
| PHAR 365—Nonprescription Pharmaceuticals and Herbal Medicinals | 3 |
| PHAR 356—Principles of Pharmacoeconomics and Drug Treatment Outcomes | 2 |
| Electives ^a | 2–4 |
| Total Hours | 16–18 |

| Summer Session | Hours |
|------------------------------|--------------|
| PHAR 357—Experiential V—IPPE | 4 |
| Total Hours | 4 |

Fourth Year

| Requirements | Hours |
|--|--------------|
| Advanced Pharmacy Practice Experiences—APPE ^b | 24 |
| Total Hours | 24 |

^a Students are required to take a total of 12 semester hours of didactic electives during the P-1 to P-3 years.

^b Students must provide transportation to and from pharmacy practice experience. Some pharmacy practice experience sites may not be in the Chicago area or accessible by public transportation.

Other Requirements**Elective Credit**

Students are required to take a total of 12 semester hours of didactic electives during the P-1 to P-3 years.

Full-Time Enrollment

All students are expected to attend full-time. Only in extenuating circumstances may students attend part-time. Because of its prerequisite structure, the pharmacy curriculum cannot be completed in a reasonable amount of time on a part-time study basis. Classes are usually scheduled Monday to Friday between 8:30 am and 5:30 pm. However, a few campus-wide elective offerings are taught in the early evening. Pharmacy practice experience courses may require that student schedules coincide with patient care or other practice activities, thus, students must be available to participate on a flexible schedule.

Grade Point Average (GPA) Requirement

To qualify as a candidate for graduation, a student must earn a cumulative grade point average of 2.00/4.00.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

To qualify as a candidate for graduation, a student must be of good moral character, pass all required courses in the curriculum, pay all indebtedness to the University, and be certified by the faculty of the College of Pharmacy.

Enrollment Residence Requirement

A minimum of three years in enrollment residence as a full-time student in a college or school of pharmacy is required to receive the PharmD degree from the University of Illinois at Chicago.

College Policies

Academic policies related to the College of Pharmacy curriculum may be obtained from the Office of Student Affairs or on the College of Pharmacy Office of Student Affairs Web site http://www.uic.edu/pharmacy/student_affairs.

Professional Honor Code

The students of the University of Illinois at Chicago College of Pharmacy recognize that honesty, truth, and integrity are core values to the development of professionalism and underpin the college's mission as an institution of higher education. They also recognize that professionalism is nurtured and developed as a student progresses through the Doctor of Pharmacy program and becomes socialized into the profession of pharmacy. This student growth is developed through reflective introspection and exposure/interaction with one's fellow students, faculty, alumni, and the profession of pharmacy. To facilitate this professional growth, a subcommittee of the ad hoc Academic Integrity Committee of the College of Pharmacy composed of students, faculty, and administrators has created an Honor Code built upon current University policies and procedures as these relate to professionalism, inclusive of academic integrity. The Code describes the responsibilities of Doctor of Pharmacy students, graduate students, faculty, and the administration in upholding academic integrity while creating an environment that respects the rights of individuals to the due process offered by administrative hearings and appeals. It is expected that all individuals who are enrolled in courses and/or programs conducted by the University of Illinois at Chicago College of Pharmacy, and all individuals responsible for student learning act in accordance with the provisions of this policy.

Academic Probation, Dismissal, and Continued Enrollment

Probation Rules

A student failing to obtain either a semester grade point average (SGPA) or a cumulative grade point average (CGPA) of at least 2.00/4.00 in courses completed at the University of Illinois at Chicago will be placed on probation. Probation is removed at the end of any semester when the SGPA and CGPA for courses completed at the University of Illinois at Chicago equal or exceed 2.00.

Refusal of Further Registration

A student will be denied further registration under any of the following conditions:

1. A student is 10 or more grade points (hours down) below a 2.00/4.00 CGPA for courses completed at the University of Illinois at Chicago.
2. A student remains on probation for two consecutive semesters (excluding summer semester) and fails to remove himself/herself from probation status after the second semester.
3. If a student does not obtain a passing grade after taking core courses or required pharmacy practice experience courses twice.
4. Any student who does not meet the conditions of the Matriculation and Continued Enrollment Policy (found under *Admission* earlier in this section of the catalog).

Students refused further registration for poor scholarship may petition the Academic Standing Committee of the college for readmission. Students must present clear evidence of improved scholarship potential before the Academic Standing Committee will consider the petition.

The review and reconsideration of a student dismissed because of poor scholarship are no guarantee of admission.

Except in unusual circumstances, students will be readmitted only once. If a student's petition is denied, the student will be dismissed from the University.

Class Attendance

Student attendance is essential and expected in all courses offered by the University of Illinois at Chicago College of Pharmacy. Regular and punctual attendance at all scheduled classes, laboratories, and recitations is expected of all College of Pharmacy students. In addition to prompt arrival to class, each student is expected to remain in class for the entire length of each session. At the discretion of the faculty member, student attendance may be incorporated into the course grade.

Advanced Pharmacy Practice Experiences Registration Requirements

All students are considered eligible to begin the advanced pharmacy practice experiences (APPE) when they satisfy requirements for 109 semester hours with a University of Illinois at Chicago cumulative grade point average of 2.00/4.00 or higher. In addition, all students are required to satisfactorily complete, with a grade point average of 2.00 or better, all core courses before entering APPE. If a student has a cumulative grade point average below 2.00, the student will be required to repeat selected core courses, as determined by the Academic Standing Committee, for which grades of D were received. In addition, the Academic Standing Committee also may require that the student repeat elective courses offered by the college for which grades of D were received. The student must receive sufficiently high grades in these courses to obtain a cumulative grade point average of 2.00 or above. The student will be allowed one calendar year to complete these courses. In extreme cases, the Academic Standing Committee can extend this time period to two calendar years.

Grading Policy

An Incomplete (I) grade must be removed within 12 months of the end of the term in which the I was received or prior to the start of APPE, whichever comes sooner. Course instructors may require an earlier deadline. If the student fails to complete the course work within the aforementioned time frame, the instructor will assign an F for the final grade. The Office of Student Affairs will notify instructors when the 12-month time limit (or the start of APPE) will occur.

Class Standing

Class standing is defined as the successful completion of all core courses required for a particular class year. An example is as follows: in order to achieve P-2 class standing, all required core courses in the P-1 year must have been taken and the student must have received a passing grade in those courses. In order to achieve P-3 class standing, all required core courses in the P-2 year must have been taken and the student must have received a passing grade in those courses.

Repeating a Course

In the event that a required course is failed, it must be successfully completed in subsequent registration in the course. The original failing grade and the subsequent earned passing grade will be included in the cumulative grade point average. Core courses and required pharmacy practice experience courses may be taken a maximum of two times. If a student does not obtain a passing grade after taking the core course or required pharmacy practice experience twice, the Academic Standing Committee will be obliged to drop the student from the program. Only under extraordinary circumstances will the Academic Standing Committee make exceptions to this policy. A student may not repeat for credit a College of Pharmacy course in the Doctor of Pharmacy curriculum for which a grade of C or better has been earned previously.

Transferring

Intercollege Transfer Students

See earlier section on *Admission*.

Transfer Students from Other Colleges and Universities

See earlier section on *Admission*.

Academic Advising

Advising Policy

All students are assigned academic advisors from the faculty and staff of the college upon matriculation. The Office of Student Affairs staff is available for referrals and assistance. Students or their advisors may request reassignment at any time.

Students with Disabilities

Any UIC College of Pharmacy student, who has a documented disability, as defined by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, will be referred to the campus Disability Resource Center. The college will make accommodations on a case-by-case basis with advice from the Disability Resource Center. Students with disabilities who require accommodations for full access and participation must be registered with the Disability Resource Center.

Academic Honors

Latin Honors

Students who have a cumulative grade point average in the College of Pharmacy of 3.50/4.00 or higher upon completion of graduation requirements will earn Latin Honors. These honors will appear on their UIC transcripts and are listed below:

Summa cum laude: 3.90 and above (highest praise)

Magna cum laude: 3.75 to 3.89 (high praise)

Cum laude: 3.50 to 3.74 (praise)

Dean's List

The Dean's List honors students each semester who have completed a minimum of 12 hours of course work at the College of Pharmacy and have achieved a grade point average of at least 3.50/4.00.

State Registration of Pharmacists

The Illinois Pharmacy Practice Act provides that a candidate for licensure as a registered pharmacist must have attained the age of 21 years or over; must be of good moral character and temperate habits; must be a graduate from a department, school, or college of pharmacy recognized and approved by the Illinois Department of Professional Regulations; and must satisfactorily pass an examination prescribed by the State Board of Pharmacy. Questions relating to licensure and administration of the Illinois Pharmacy Practice Act should be directed to the Illinois Department of Professional Regulations, 320 West Washington, Springfield, Illinois 62786, (217) 785-0800, or the Department of Professional Regulations, James R. Thompson Center, 100 West Randolph, Suite 9-300, Chicago, Illinois 60601, (312) 814-4500.

Student Organizations

Pharmacy students have a variety of student organizations available to them, ranging from professional and fraternal societies and professional organizations to student government. Involvement in student organizations can enhance the learning experience at the College of Pharmacy and aid in the development of valuable leadership skills. Several professional organizations are represented at the college: Academy of Students of Pharmacy, the student organization of the American Pharmaceutical Association; the Asian Pharmacy Association; the Association of Indian Pharmacists in America; the Christian Pharmacists Fellowship International; the Community Drug Education Committee (CDEC), the student outreach organization; the student chapter of the Illinois Council of Health-System Pharmacists (ICHSP); and the Student National Pharmaceutical Association, an organization for minority students in pharmacy seeking to promote self-reliance, self-awareness, and excellence in pharmacy practice.

A number of honorary organizations are represented in the College of Pharmacy: Phi Lambda Sigma, Phi Kappa Phi, and the Phi Chapter of Rho Chi.

The college's four fraternal organizations are both professional and social; they promote the development of the health sciences and the profession of pharmacy, as well as sponsor various social events. They are as follows: Lambda Kappa Sigma, Kappa Psi, Phi Delta Chi, and Rho Pi Phi.

For those students interested in student government, each class in the college has four class officers and two representatives, who represent their class on the Student Council. Students also sit on various college committees.

College of Urban Planning and Public Affairs

Dean, Michael A. Pagano
115 CUPPA Hall
(312) 413-8088

<http://www.uic.edu/cuppa/index.html>

Associate Dean, Albert J. Schorsch, III, (312) 996-2177
Interim Assistant Dean of Student Services,
Valerie Werner, (312) 413-2292

Introduction

The College of Urban Planning and Public Affairs (CUPPA) at UIC is an internationally recognized leader in education, research, and engagement in support of the world's cities and metropolitan areas. CUPPA provides innovative urban planning and public management education that puts engaged research to purposeful use at home and abroad. We strive for academic excellence and to provide inspirational learning experiences for our students. We make a contribution beyond the university. We are committed to respecting the unique individual contributions of faculty to scholarship, students to learning, and staff to service. We welcome cultural diversity in the composition of our faculty, staff, and students. We collaborate across disciplines, programs, and other institutional divides to generate more successful inquiry and learning. We are committed to innovation that anticipates future needs and crafts sustainable solutions in the pursuit of learning.

Urban and Public Affairs Program

412 South Peoria (CUPPAH)
(312) 413-2292

<http://www.uic.edu/cuppa/upa/>

Administration: Director, Valerie Werner
Assistant Director, Anna Baccellieri

Urban and Public Affairs (UPA) prepares students to enter urban professions and graduate professional education programs with knowledge and understanding of the complexity and diversity of the urban environment and the policy and management processes that affect it. Historically, Americans lived in small towns and rural settings; however, today the vast majority of Americans live within expanding urban regions that are linked to a global network of cities. The Urban and Public Affairs program educates students on the complexity and diversity of urban areas; teaches students comprehensive policy and management tools for addressing urban problems and creating solutions; and provides students with the opportunity to experience hands-on learning through internships, applied research, access to top scholars and professionals in the field, and by fostering leadership development. Graduates of UPA will have mastered knowledge and skills in:

- The forces that impact urban areas affecting the quality of life and potential solutions to problem areas
- Understanding of organizational theory and organizational behavior
- Issues of efficiency, equity, and social justice
- Understanding human resource management and financial administration
- Collaboration, diversity, and democracy in professional practice
- Plan and policy implementation and analysis
- Ethical and political values guiding city building and management

Graduating Urban and Public Affairs students will enter careers in public and nonprofit service, commerce, real estate, or other city building activities. Students entering graduate education will be prepared to study in related fields, such as public administration, urban planning, public health, law, public relations, international studies, sociology, political science, or peace and social justice studies.

Admission Requirements

Students apply for admission through the College of Urban Planning and Public Affairs. Admission into the Urban and Public Affairs program is selective and competitive.

1. Junior standing only (completion of 60 semester hours in Pre-Urban and Public Affairs in the College of Liberal Arts and Sciences or from any accredited community college or four-year college or university)
2. A grade point average of 2.75/4.00
3. Phone or personal interview
4. Personal statement of educational goals
5. Availability of space
6. One college-level microeconomics course

Special consideration will be given to students who have completed courses in public and urban concerns and have some knowledge of economics and government, including the following courses (or their equivalents) from either a community college or a lower-division program in a four-year institution:

- UPA/UPP 101—Introduction to Urban Studies (3)
- UPA/UPP 202—Planning Great Cities (3)
- POLS 101, 210, 310, 313
- SOC 101, 105, 241, 265, 276

Degree Requirements

To earn the Bachelor of Arts in Urban and Public Affairs degree from UIC, students need to complete the University and college degree requirements. University and college degree requirements for all College of Urban Planning and Public Affairs students are outlined below. Students should consult the *General Education* section of the catalog for more information on completing the General Education requirements.

Semester Hour Requirement

The College of Urban Planning and Public Affairs semester hour requirement is 120 semester hours. UIC students complete the first two years of the program in Pre-Urban and Public Affairs through the College of Liberal Arts and Sciences. If admitted to the College of Urban Planning and Public Affairs, students complete the final two years in the Urban and Public Affairs curriculum. Please see *Preprofessional Studies* in the *College of Liberal Arts and Sciences* section of the catalog for more information on Pre-Urban and Public Affairs.

| Degree Program | Degree Conferred | Total Hours |
|---|--------------------------------|-------------|
| Urban and Public Affairs | BA in Urban and Public Affairs | 120 |
| BA in Urban and Public Affairs Degree Requirements | | |
| Pre-Urban and Public Affairs | | 60 |
| Course Requirements in the College of Urban Planning and Public Affairs | | 39 |
| Electives | | 21 |
| Total Hours—BA in Urban and Public Affairs | | 120 |

Course Requirements**Pre-Urban and Public Affairs**

| Courses | Hours |
|--|-----------|
| ENGL 160—Academic Writing I: Writing for Academic and Public Contexts | 3 |
| ENGL 161—Academic Writing II: Writing for Inquiry and Research | 3 |
| Foreign language (16 hours in a single language or equivalent) | 16 |
| Quantitative Reasoning course ^a | 3 |
| Analyzing the Natural World course ^{bc} | 3–5 |
| Exploring World Cultures course ^b | 3 |
| Understanding the Creative Arts course ^b | 3 |
| Understanding the Individual and Society course ^{bd} | 3 |
| Understanding the Past course ^b | 3 |
| Understanding U.S. Society course ^{bd} | 3 |
| Additional General Education course(s) from any category ^{bd} | 4–6 |
| Free electives ^d | 11 |
| Total Hours—Pre-Urban and Public Affairs | 60 |

^a See General Education Proficiencies for information on meeting this requirement.

^b Students should consult the General Education section of the catalog for a list of approved courses in this category.

^c A laboratory course is recommended.

^d Recommended electives include a college-level microeconomics course; UPA/UPP 101 and UPA/UPP 202; POLS 210, 310, 313; SOC 105, 241, 265, 276. UPA/UPP 101 and UPA/UPP 202 are both approved for the Understanding U.S. Society General Education category. Students should consult the General Education section of the catalog to determine if any of the other recommended electives are approved General Education courses.

Course Requirements in the College of Urban Planning and Public Affairs

| Required Courses | Hours |
|---|----------|
| UPA/PA 300—Introduction to Urban Policy Processes | 3 |
| UPA/UPP 301—Political Economy of Urban Development | 3 |
| UPA/PA 303—Urban Government I: Managing the Internal Environment | 3 |
| UPA/UPP 304—Visualizing the City: Methods and Tools for Representing the City | 3 |
| UPA/PA 305—Urban Government II: Managing the External Environment | 3 |
| UPA/UPP 306—Urban Policy Analysis Methods | 3 |
| UPA/PA 307—E-Government and Public Affairs | 3 |
| UPA/UPP 308—Globalization and Urban Public Affairs | 3 |
| One of the following courses: | 3 |
| UPA/UPP 492—Topics in Urban Affairs and Administration (3) | |
| UPA/PA 493—Topics in Urban and Public Affairs (3) | |
| One of the two sets of courses below: | 6 |
| UPA/UPP 494—Senior Capstone Experience in Urban Affairs and Administration I (3) | |
| UPA/UPP 495—Senior Capstone Experience in Urban Affairs and Administration II (3) | |
| OR | |
| UPA/PA 496—Senior Capstone Experience in Urban and Public Affairs I (3) | |
| UPA/PA 497—Senior Capstone Experience in Urban and Public Affairs II (3) | |

Electives in CUPPA to reach total of 39 semester hours in Urban and Public Affairs 6

Total Hours—Course Requirements in the College of Urban Planning and Public Affairs 39

Electives Hours
Total Hours—Electives 21

General Education Core

General Education at UIC is designed to serve as a foundation for lifelong learning. Students are required to complete a minimum of 24 semester hours in the General Education Core with at least one course from each of the following categories:

- I. Analyzing the Natural World
- II. Understanding the Individual and Society
- III. Understanding the Past
- IV. Understanding the Creative Arts
- V. Exploring World Cultures
- VI. Understanding U.S. Society

For a description and a list of courses for each General Education Core category, students should consult the *General Education* section of the catalog. Information on meeting the General Education requirements for this program is listed in the previous section on *Pre-Urban and Public Affairs*.

General Education Proficiencies—Foreign Language, Quantitative Reasoning, and University Writing Requirement

College of Urban Planning and Public Affairs students must meet the following General Education Proficiencies: Foreign Language, Quantitative Reasoning, and University Writing Requirement. As noted in the previous section on *Pre-Urban and Public Affairs*, students meet the General Education Proficiencies as follows:

Foreign Language

Students must earn sixteen hours in a single language or the equivalent.

Quantitative Reasoning

Students in the College of Urban Planning and Public Affairs must demonstrate competency in quantitative reasoning to earn a degree. Such competence can be demonstrated in any one of the following ways:

1. Achievement of a score on the mathematics placement examination high enough to qualify for enrollment in Mathematics 180. Placement in Mathematics 180 may be by other means determined by the Department of Mathematics.
2. Grade of C or better in any one of the following courses: Mathematics 121, 123, 145, 150, 160, 165, 180, Statistics 101.
3. Grade of C or better in a mathematically oriented course in a department in LAS other than Mathematics. Such courses must require Mathematics 090 or 118 as a prerequisite. At present, such courses include Communication 201; Criminology, Law, and Justice 262; Political Science 201; Psychology 343; and Sociology 201.
4. Grade of C or better in a logic course in the Department of Philosophy: Philosophy 102 or 210.
5. Transfer students may present equivalent courses taken elsewhere, for which they have received a grade of C or better, to satisfy this requirement.

University Writing Requirement

Students must earn a passing grade in English 160 and 161.

Other Requirements**Grade Point Average (GPA) Requirement**

A student must earn a cumulative grade point average of 2.75/4.00 in all work taken at UIC and a cumulative grade point average for required courses in the UPA major of 2.75. In addition, the combined average of a student's transfer work and work taken at UIC must be at least 2.75.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *Student Self-Service*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (Summer Session 2) of the term in which graduation is sought. Failure to submit the request at this time may delay the awarding of the degree. A final review will be made following the close of the term. If a student has satisfactorily completed all the degree requirements, the student's name will be placed on the official degree list.

Enrollment Residence Requirement

See the *University Degree Requirements, Graduation, and Commencement* section of the catalog for a complete description of this requirement.

Transfer Credit

Transfer guides are available for most colleges in the Chicago area and can be found at <http://www.uic.edu/depts/oar/transf/index.html>.

UPA Policies**Academic Load**

In the Urban and Public Affairs program, students must enroll in a full-time program of study, in either day or evening classes. During the fall and spring semesters, a minimum full-time program is 12 hours of credit per semester. A program of 19 semester hours or more must be approved by a college dean or the director of the UPA program. For Summer Session 1 (four-week) and Summer Session 2 (eight-week), UIC considers a total aggregate of 6 semester hours as the minimum number necessary to constitute full-time enrollment. A program of 11 semester hours or more during the summer session must be approved by a college dean or the director of the UPA program.

Academic Probation and Dismissal Rules

A student will be placed on academic probation in any term in which either a cumulative or semester grade point average of less than 2.75/4.00 is earned. A student on probation is expected to earn greater than a 2.75 in the next term and have a UIC cumulative grade point average of 2.75 by the end of the second term on probation.

Dismissal Rules

Students failing to earn a cumulative grade point average of 2.75 by the end of two terms on probation will be dismissed from the University. In any term, a student may be dismissed for one or more of the following reasons:

1. First-term students will be dismissed after their first term of enrollment if they earn zero credit or obtain a deficit of -15 points or more. Deficit points are calculated as follows: multiply the number of credit hours for each course taken by the points for the grade received, A=+2, B=+1, C=0, D=-1, F=-2. Add the points of each course taken during the semester. The total equals the deficit points used to determine probation status. Each deficit point equals one hour of B.

2. Continuing students will be dismissed at the end of any term in which their cumulative deficit points (see above) are -15 or more.
3. Failure to earn any credit.
4. Failure to earn at least a 1.00/4.00 (D) average for a term.
5. Failure to earn at least a 2.75/4.00 while on probation.
6. Failure to meet conditions of probation.
7. Failure to meet conditions specified at the time of admission.
8. Failure to make progress toward completion of the UPA degree.
9. Two or more consecutive terms of University withdrawals.

The dean may waive the dismissal rules in extraordinary circumstances.

Appeal of a Dismissal Decision

Students who have been dismissed by the college may apply for readmission after two terms (excluding the summer session). Students who can document that poor academic performance was the result of significant extenuating circumstances, such as a long-term or debilitating illness or personal crisis, may petition for immediate reinstatement. The student must make arrangements for an interview, with supporting documentation, with the director of UPA or dean prior to the first day of instruction of the new term.

Change of Course Schedule—Dropping Courses

Undergraduate students may drop courses using *Student Self-Service* through the end of the second week of classes for fall and spring semesters, the first Wednesday of Summer Session 1, or the first Friday of Summer Session 2. During weeks 3 through 10 of the fall and spring semesters (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring, there will be no notation on the transcript. If the drop occurs during weeks 3 through 10 in fall and spring (first Thursday through the second Wednesday of Summer Session 1 or weeks 2 through 5 of Summer Session 2), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 UIC individual courses that result in a W notation on their transcript during their entire undergraduate degree program.

Class Attendance

Each instructor may establish his/her own attendance policy, including penalties for nonattendance. Failure to attend classes does not result in automatic withdrawal from a course. The college expects that students will attend all classes.

Course Prerequisites

A student must satisfy the prerequisites before enrolling in a course. A student enrolling in a course without having met the prerequisites may be withdrawn from the course. Course prerequisites are listed in both the course descriptions in this catalog and the *Schedule of Classes*. Only the instructor may waive the prerequisite, if given evidence that the student is adequately prepared to pursue the subject.

Credit/No Credit Option

The credit/no credit option allows the student to complete a course with a grade of credit (CR) or no credit (NC) instead of a letter grade. Courses completed with a grade of CR carry credit and apply toward degree requirements. In general, grades of CR and NC are final and cannot be changed to letter grades. The UPA program's policy coincides with campus policy with the following conditions:

1. Only students in good standing may elect to take a course under the credit/no credit option. Students on probation and those whose status is undetermined at the time at which they elect the option are not eligible.
2. A student may request only one course per term as credit/no credit.
3. No more than two courses in a single discipline may be taken as credit/no credit.
4. Only elective courses may be taken on a credit/no credit basis; courses being used to meet any graduation course requirements must be taken for letter grades.
5. The following describes the restrictions that apply to all students regardless of major or curriculum:
 - a. Students may not take English 160 or 161 as credit/no credit.
 - b. Students may not take any course used to satisfy the foreign language requirement as credit/no credit.
 - c. Students may not take any course used to satisfy the General Education Core requirements as credit/no credit. Until students have completed the minimum requirement in each General Education Core category, courses from these areas may not be taken as credit/no credit.
 - d. Students may not take any course used to satisfy the quantitative reasoning requirement as credit/no credit.
 - e. Students may not take any course being used to satisfy the requirements of the UPA major or required prerequisite and collateral courses of the major as credit/no credit.
6. A student may earn no more than 21 semester hours of credit at UIC under the credit/no credit option.

Students must apply to take a course credit/no credit at the UPA office, CUPPA Hall, no later than the tenth day of the term (first Wednesday of Summer Session 1 or first Friday of Summer Session 2). After that date, students may not request courses on a credit/no credit basis nor may they change a credit/no credit request previously submitted. It is the responsibility of the student to determine eligibility under the regulations. Students will be informed if they are ineligible and will receive a grade for the course. Students with questions concerning their eligibility should make an appointment with the director of the UPA program.

Double Major, Double Degrees, and Second Bachelor's Degree***Double Major***

This option is not available in the College of Urban Planning and Public Affairs.

Double Degrees

Double degrees consist of two bachelor's degrees completed concurrently. Double degrees with the Urban and Public Affairs program and a program in another college

may be possible. Students should consult the college section of the catalog for the second degree program to determine if this option is available.

Students seeking two bachelor's degrees concurrently must formally request acceptance into the second degree program. Students must complete a minimum of 30 semester hours beyond those required for the first degree and all requirements for each of the degree programs as specified by the college and major department. All students interested in double degrees should discuss this option with an advisor.

Double degrees are not permitted when there is substantial course overlap between the first and second degrees.

Students who obtain double degrees receive a diploma for each degree. No more than two bachelor's degrees may be awarded concurrently.

Second Bachelor's Degree

Students who have already earned a bachelor's degree at UIC or another institution are required to follow the same application procedures as all other applicants in order to pursue a second bachelor's degree. Students must complete all requirements for the second degree as specified by the college and the major department, including a minimum of 30 semester hours beyond those required for the first degree. The UIC enrollment residence requirement must also be met, i.e., the last 30 semester hours for the second degree must be taken at UIC. A second bachelor's degree is not permitted when there is substantial course overlap between the first and second degrees.

Graduate-Level Courses for Undergraduate Students

With program approval from the UPA director and permission from the professor, an undergraduate student may enroll in a course in the Graduate College (400- or 500-level) for undergraduate elective credit. Prior to enrollment, students must obtain approval and must have met course prerequisites.

Students should understand that graduate-level courses taken by an undergraduate student are generally not applicable toward a graduate degree.

Independent Study

A student must have a minimum 2.75/4.00 grade point average in all course work taken at UIC and must obtain consent of the instructor and the UPA program prior to registration. No student may enroll in an independent study course after the tenth day of the term without approval of the UPA program.

Petition Procedure

Any rule, regulation, or action of the UPA program may be appealed in writing. Petitions are submitted to the UPA office, CUPPA Hall. It is the student's responsibility to provide documentation in support of the petition. Submission of a petition does not imply approval.

Registration Approval

All new students are required to attend an orientation program prior to registration. Certain students or groups of students may be required to see an advisor prior to registration.

Repeat Policy for Standard Graded Courses

Students may repeat a course to increase their knowledge of the subject matter. There are circumstances under which repeating a course is advisable and to a student's advantage. There are also circumstances where repeating a course may

disadvantage a student and narrow a student's options. The UPA program requires students to discuss any plan to repeat a course with their academic advisor before they register to repeat the course.

Courses with A or B grades may not be repeated. Normally, courses with a C grade may not be repeated. Courses with D or F grades may be repeated once without written permission. In all cases, the original grade for the course and the grade for each repeat will appear on the transcript. The original grade will be calculated into the grade point average, unless the student initiates a request for *Repeating a Course with Grade Point Average Recalculation* as described below. Only one registration for the course counts toward the total number of credits required for graduation. A course cannot be repeated after receiving credit in a course for which the repeat course is a prerequisite.

To repeat a course more than once due to a grade of D or F requires written permission from the student's college dean. Students who have been dismissed may not appeal on the grounds of intention to repeat courses. Certain courses may not be repeated; students should consult their college before repeating a course.

Repeating a Course with Grade Point Average Recalculation

Important Note: Grade point average recalculation for a repeated course **is not** automatic. The student must initiate a request in the college office as outlined below.

For the grade point average recalculation policy to apply, a student must declare to his or her college the intent to repeat a course for a change of grade before reenrolling in the course. The course must be repeated within three semesters of the receipt of the original grade, and it must be taken at UIC. Only one registration for the course counts toward the total number of credits required for graduation.

Undergraduate students are allowed grade point average recalculation in up to four repeated courses. Under the course repeat policy, all courses taken and their grades appear on the transcript in the semester in which they were taken. Under the grade point average recalculation policy, the grade earned the first time the course is taken will be dropped from the calculation of the cumulative GPA and the grade(s) earned when the course is repeated will be used in the calculation. This rule holds, even if the second grade is lower than the first. If a course is repeated more than once, the first grade is not counted in the GPA, but all other grades for that course are calculated in the cumulative GPA.

Transferring

Students currently enrolled at UIC who want to transfer into the College of Urban and Public Affairs should complete an Intercollege Transfer Application available at the UPA program office, CUPPA Hall. Students are welcome to discuss possible admission to UPA with the director. Requests must be initiated by the Friday of the eleventh week of the fall and spring semesters and the fourth week of the summer session. Admission to UPA is limited to those students in good academic standing who have a UIC grade point average of at least 2.75/4.00 and whose combined UIC and transfer grade point average is at least 2.75. Those students who are accepted into UPA are expected to enroll immediately in courses that fulfill the UPA degree requirements.

Students applying to UPA as transfers must have earned at least 60 semester hours of credit and must submit complete transcripts from all postsecondary institutions.

Provided space is available, a minimum 2.75/4.00 grade point average is required for consideration. Please consult the *Admissions* section of the catalog for more information.

The UPA student who wants to transfer into another UIC college must follow the procedures of that college. Students interested in other colleges should contact those colleges directly.

Academic Advising

Advising Policy

The Urban and Public Affairs undergraduate program encourages the intellectual growth and development of the student as an individual. Newly admitted students are required to participate in a small group advising session prior to their initial registration. To arrange an advising appointment, students may call (312) 413- 2565 or (312) 413-2292 or come to the UPA program office, CUPPA Hall, Suite 316.

Students should consult the UPA director or other appointed academic advisor at least once during the first term in residence and at least once an academic year thereafter. The students' UPA advisor assists students in individual program planning and course selection, as well as discusses with students the feasibility of various career paths based on interest and academic performance. Additionally, advisors can explain college and program rules and requirements and can help resolve special registration problems. In conjunction with this, advisors refer students to additional resources on campus.

The responsibility for selecting courses and meeting graduation requirements rests with the students, who must plan intelligently to make their programs consistent with their goals and with college requirements.

Academic Honors

University Honors

The college recognizes and conforms with the campus-wide honors program. University Honors are awarded to graduating students whose cumulative grade point average falls within the following honors categories:

Summa cum laude: 3.90 and above

Magna cum laude: 3.75 to 3.89

Cum laude: 3.50 to 3.74

Transfer students must have earned a minimum of 42 hours at the University of Illinois at Chicago at the end of the term prior to the term of graduation and have a minimum of 60 hours completed at UIC upon graduation.

In addition, transfer students must have an institutional (UIC) grade point average of 3.50 in order to qualify for University Honors.

Dean's List

Exceptional academic achievement in the College of Urban Planning and Public Affairs is recognized each term by inclusion on the Dean's List. Eligibility is based on a 3.50/4.00 term GPA with a minimum program of 12 semester hours, exclusive of basic military science and basic activity courses in physical education. At least 9 semester hours must be earned for letter grades, in addition to a grade of Credit earned in any course taken on a credit/no credit basis.

Sample Course Schedule

Junior Year

| Fall Semester | Hours |
|---|-----------|
| UPA 300—Introduction to Urban Policy Processes | 3 |
| UPA 301—Political Economy of Urban Development | 3 |
| UPA 303—Urban Government I: Managing the Internal Environment | 3 |
| Two elective courses outside of UPA | 6 |
| Total Hours | 15 |

| Spring Semester | Hours |
|--|-----------|
| UPA 305—Urban Government II: Managing the External Environment | 3 |
| UPA 306—Urban Policy Analysis Methods | 3 |
| UPA 308—Globalization and Urban Public Affairs | 3 |
| Elective course in UPP or PA | 3 |
| One elective outside of UPA | 3 |
| Total Hours | 15 |

Senior Year

| Fall Semester | Hours |
|---|-----------|
| UPA 304—Visualizing the City: Methods & Tools for Representing the City | 3 |
| UPA 493—Special Topics in Urban and Public Affairs | 3 |
| UPA 494—Senior Capstone Experience | 3 |
| Two elective courses outside of UPA | 6 |
| Total Hours | 15 |

| Spring Semester | Hours |
|---|-----------|
| UPA 307—E-Government and Public Affairs | 3 |
| UPA 495—Senior Capstone Experience | 3 |
| Elective course in UPP or PA | 3 |
| Two elective courses outside of UPA | 6 |
| Total Hours | 15 |

Rubrics

The following is a list of course rubrics used for undergraduate courses. Please note that not all course rubrics currently list courses in the catalog.

| Subject Area | Rubric | Subject Area | Rubric |
|--|--------|---|--------|
| Academic Skills Program | ASP | Industrial Engineering | IE |
| Accounting | ACTG | Information and Decision Sciences | IDS |
| African American Studies | AAST | Information Technology | IT |
| Anatomy and Cell Biology | ANAT | Interdisciplinary Public Health Sciences | IPHS |
| Ancient Greek | GKA | Interdisciplinary Studies in the Arts | ISA |
| Anthropology | ANTH | International Studies | INST |
| Arabic | ARAB | Italian | ITAL |
| Archaeological Studies | ARST | Japanese | JPN |
| Architecture | ARCH | Jewish Studies | JST |
| Art and Design | AD | Kinesiology | KN |
| Art History | AH | Latin | LAT |
| Asian American Studies | ASAM | Latin American and Latino Studies | LALS |
| Asian Studies | ASST | Liberal Arts and Sciences | LAS |
| Associated Health Sciences | AHS | Linguistics | LING |
| Biochemistry and Molecular Genetics | BCMG | Lithuanian | LITH |
| Bioengineering | BIOE | Management | MGMT |
| Biological Sciences | BIOS | Marketing | MKTG |
| Biomedical and Health Information Sciences | BHIS | Maternal-Child Nursing | NUMC |
| Biopharmaceutical Sciences | BPS | Mathematical Computer Science | MCS |
| Business Administration | BA | Mathematics | MATH |
| Catholic Studies | CST | Mathematics Teaching | MTHT |
| Central and Eastern European Studies | CEES | Mechanical Engineering | ME |
| Chemical Engineering | CHE | Medicinal Chemistry and Pharmacognosy | PMMP |
| Chemistry | CHEM | Microbiology and Immunology | MIM |
| Chinese | CHIN | Military Science | MILS |
| Civil and Materials Engineering | CME | Modern Greek | GKM |
| Classics | CL | Moving Image Arts | MOVI |
| Communication | COMM | Music | MUS |
| Computer Science | CS | Native American Studies | NAST |
| Criminology, Law, and Justice | CLJ | Natural Sciences | NATS |
| Curriculum and Instruction | CI | Naval Science | NS |
| Dance | DNCE | Neuroscience | NEUS |
| Disability and Human Development | DHD | Nursing Sciences | NUSC |
| Earth and Environmental Sciences | EAES | Pharmacy | PHAR |
| Economics | ECON | Pharmacy Administration | PMAD |
| Education | ED | Pharmacy Practice | PMPR |
| Educational Policy Studies | EDPS | Philosophy | PHIL |
| Educational Psychology | EPSY | Physics | PHYS |
| Electrical and Computer Engineering | ECE | Physiology and Biophysics | PHYB |
| Engineering | ENGR | Polish | POL |
| English | ENGL | Political Science | POLS |
| English as a Second Language | ESL | Portuguese | PORT |
| Entrepreneurship | ENTR | Psychiatric Nursing | NUPS |
| Finance | FIN | Psychology | PSCH |
| French | FR | Public Administration | PA |
| Gender and Women's Studies | GWS | Religious Studies | RELS |
| Geography | GEOG | Russian | RUSS |
| Germanic Studies | GER | Slavic and Baltic Languages and Literatures | SLAV |
| Guaranteed Admissions Medicine | GAMD | Sociology | SOC |
| Health Information Management | HIM | Spanish | SPAN |
| Hebrew | HEB | Special Education | SPED |
| Hindi-Urdu | HNUR | Statistics | STAT |
| History | HIST | Theatre | THTR |
| Honors College Courses | HON | Urban and Public Affairs | UPA |
| Human Nutrition | HN | Urban Planning and Policy | UPP |
| | | Women's Health Nursing | NUWH |

Academic Skills Program

ASP 050 3 hrs. Speaking, Reading, and Writing in English as a Second Language

Reading, speaking, and writing formal and colloquial English for students with limited English proficiency. English language skills in everyday and academic contexts stressed. Satisfactory/Unsatisfactory grading only. No graduation credit.

ASP 051 3 hrs. Advanced Communication Skills in English as a Second Language

Discipline-specific reading, writing, and speaking strategies necessary for coping with complex ideas in textbooks, class discussions, and writing tasks. Principles of formal English language in the American academic context stressed. Satisfactory/Unsatisfactory grading only. No graduation credit.

Prerequisite(s): ASP 050 or an appropriate score on the reading placement test, or consent of the instructor.

ASP 052 3 hrs. Vocabulary Enrichment in English as a Second Language

Strategies for increasing, building, and retaining better vocabularies. Instruction in combining forms, analogies, and using the dictionary. Satisfactory/Unsatisfactory grading only. No graduation credit.

ASP 055 3 hrs. Communication Skills for International Graduate Students

Instruction and practice in formal and informal English language usage in the context of intercultural learning are provided for international graduate students with limited English proficiency. Satisfactory/Unsatisfactory grading only. No graduation credit.

ASP 060 3 hrs. Studying/Learning Across the Disciplines

Offers practical methods for applying learning strategies to tasks typical of course work in various disciplines. Satisfactory/Unsatisfactory grading only. No graduation credit.

ASP 062 2 hrs. Topics in Learning Support Instruction

Specially designed course that introduces and provides practice in special topics related to reading, writing, learning, and thinking strategies geared to specific course demands and specific populations. Satisfactory/Unsatisfactory grading only. No graduation credit.

Prerequisite(s): Consent of the instructor.

ASP 063 2–3 hrs. Topics in Learning Support Instruction for LARES Students

Specially designed course that introduces and provides practice in special topics related to reading, writing, learning, and thinking strategies geared to specific course demands. Satisfactory/Unsatisfactory grading only. May be repeated. No graduation credit. **Prerequisite(s):** Consent of the instructor. Restricted to students in the Latin American Recruitment and Educational Services Program.

ASP 086 3 hrs. Critical Reading and Thinking I-LARES

Strategies for comprehending and learning textbook material representing different academic disciplines and for writing summaries and syntheses. Cultural and language concerns of Latino students addressed. Satisfactory/Unsatisfactory grading only. No graduation credit. Restricted to students in the Latin American Recruitment and Educational Services Program.

ASP 087 3 hrs. Critical Reading and Thinking II-LARES

Advanced, discipline-specific reading, writing, and thinking strategies for practice in comprehending and writing about complex textbook material. Cultural and language concerns of Latino students addressed. Satisfactory/Unsatisfactory grading only. No graduation credit.

Prerequisite(s): ASP 086; or an appropriate score on the reading placement test or consent of the instructor. Restricted to students enrolled in the Latin American Recruitment and Educational Services Program.

ASP 088 3 hrs. Intensive Writing Workshop for LARES Students

Practice in basic writing skills for students who are enrolled, or intending to enroll, in the required composition courses, or courses requiring writing. Cultural and language concerns of Latino students addressed. Satisfactory/Unsatisfactory grading only. No graduation credit. Restricted to students in the Latin American Recruitment and Educational Services Program.

ASP 090 3 hrs. Critical Reading and Thinking I

Strategies for comprehending, writing about, and learning textbook material representing different academic disciplines. Instruction in writing summaries and syntheses of readings included. Satisfactory/Unsatisfactory grading only. No graduation credit.

ASP 091 3 hrs. Critical Reading and Thinking II

Advanced, discipline-specific reading, writing, and thinking strategies for practice in comprehending and writing about com-

plex textbook material.

Instruction in writing syntheses and critical analyses of readings included. Satisfactory/Unsatisfactory grading only. No graduation credit.

Prerequisite(s): ASP 090 or an appropriate score on the reading placement test, or consent of instructor.

ASP 092 2 hrs. Vocabulary Enrichment

Strategies for increasing the number of words students understand in their reading/listening and use in their speaking/writing.

Techniques for learning unfamiliar technical terms in textbooks. Satisfactory/Unsatisfactory grading only. No graduation credit. Meets 8 weeks of the semester.

ASP 095 3 hrs. Academic and Professional Writing

Academic and professional writing principles and their application are introduced and practiced. Practice in writing resumes, business and professional correspondence, reports, and theses. Satisfactory/Unsatisfactory grading only. No graduation credit.

ASP 096 0–3 hrs. Independent Study

For those who wish to supplement regular courses or undertake individual study projects. Satisfactory/Unsatisfactory grading only. No graduation credit. **Prerequisite(s):** Approval of the department.

Accounting

ACTG 210 3 hrs. Introduction to Financial Accounting

Concepts and standards underlying the preparation and analysis of external reports; alternative effects and role of accounting in the business environment and capital markets. Previously listed as ACTG 110. Extensive computer use required. **Prerequisite(s):** Sophomore standing.

ACTG 211 3 hrs. Introduction to Managerial Accounting

Management planning and control; cost concepts and measurement; cost accounting systems; analysis of cost and volume-profit relationships; standard costs and variances; and budget preparation. Previously listed as ACTG 111. Extensive computer use required. **Prerequisite(s):** ACTG 210 and sophomore standing. Accounting majors need a grade of C or better in ACTG 210.

ACTG 315 3 hrs. Intermediate Financial Accounting I

Theory and standards related to asset valuation, revenue recognition, gain and loss recognition, and their impact on income measurement and financial position. For satisfactory progress in the Accounting major, students must receive a grade of C or better in

ACTG 315. ACTG 315 may be repeated only once. Transfer credit from another college or university is not accepted for ACTG 315. **Prerequisite(s):** Average grade of B or higher in ACTG 210 and ACTG 211, with both taken at UIC; or a grade C or better in ACTG 210 or equivalent and ACTG 211 or equivalent and a passing grade in the Accounting Qualifying Exam (AQE). Registration for this course is only through Department of Accounting Web site: <http://accounting.cba.uic.edu>. Information on AQE is also available there.

ACTG 316 3 hrs. Intermediate Financial Accounting II

Selected topics in accounting and financial reporting including: cash flow statements, income taxes, long-term debt and leases, investments, derivative securities, and contingencies and employee retirement benefits and stockholders' equity. **Prerequisite(s):** Grade of C or better or concurrent registration in ACTG 315.

ACTG 326 3 hrs. Cost Accounting

Design of cost accounting systems; alternate costing methods; costing for decision making; budgeting and performance evaluation. Extensive computer use required. For satisfactory progress in the Accounting major, students must receive a C or better in ACTG 326. ACTG 326 may be repeated only once.

Prerequisite(s): Grade of C or better in ACTG 210 and grade of C or better in ACTG 211.

ACTG 355 3 hrs. Business Law I: Commercial Transactions

Commercial transactions including: contracts, sales of goods, negotiable instruments, and secured transactions.

Prerequisite(s): ACTG 211 or the equivalent.

ACTG 394 3 hrs. Special Topics in Accounting—Undergraduate

Investigates selected contemporary accounting topics using readings in both academic and professional journals as well as cases for analysis. **Prerequisite(s):** ACTG 316 and ACTG 326.

ACTG 396 1–3 hrs. Independent Study in Accounting—Undergraduate

Independent study in approved topics; written report prepared under the guidance of a faculty member is required.

Prerequisite(s): ACTG 316 and ACTG 326, declaration of a major and approval of the department.

ACTG 417 3 OR 4 hrs.**Advanced Financial Accounting**

Financial accounting theory for business combinations, consolidated financial statements, international transactions and investments, and partnership accounting. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ACTG 316.

ACTG 435 4 hrs.**Auditing**

Introduction to the audit function; ethical and legal environment; audit standards; objectives and procedures; materiality and audit risk; sampling; auditing in a computer environment; reporting. Extensive computer use required. **Prerequisite(s):** ACTG 316.

ACTG 445 3 OR 4 hrs.**Federal Income Tax I**

Concepts and provisions of federal income taxation as applicable to individual taxpayers, partnerships, individuals, and trusts. 3 undergraduate hrs. 4 graduate hrs. Credit is not given for ACTG 445 if the student has credit for ACTG 508. Extensive computer use required. **Prerequisite(s):** ACTG 315.

ACTG 446 3 OR 4 hrs.**Federal Income Tax II**

Concepts and provisions of federal income taxation on corporations and partnerships; special problems in reorganization, liquidations, and personal holding companies. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** ACTG 445 or the equivalent.

ACTG 456 3 OR 4 hrs.**Business Law II: Business Organizations**

Business organizations, including agency, general partnerships, limited partnerships, corporations, limited liability companies, securities regulations, bankruptcy, suretyship, bailments, real property, wills and trusts, accounting liability. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ACTG 355 or the equivalent.

ACTG 465 3 OR 4 hrs.**Governmental and Nonprofit Accounting**

Financial transaction analysis and recording system; budget preparation and control; concepts and principles underlying the financial reports of governmental and nonprofit organizations. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ACTG 316.

ACTG 474 3 OR 4 hrs.**Accounting Information Systems**

Skills and concepts that enable the documentation, design, and use of accounting information systems, understanding transaction cycles, sound internal controls, accounting software and the electronic business environment. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Grade of C or better in ACTG 210 and grade of C or better in ACTG 211; and IDS 200.

ACTG 475 3 OR 4 hrs.**Database Accounting Systems**

Concepts and principles of designing database systems to perform accounting functions, applications of microcomputer accounting software packages systems design tools, and computerized transaction cycles. **Same as** IDS 475. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** ACTG 211 and IDS 200.

ACTG 484 3 OR 4 hrs.**International Accounting**

Financial accounting for international operations, multinational managerial accounting and control, comparative international accounting, international reporting issues, and international taxation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ACTG 316.

ACTG 485 3 OR 4 hrs.**Valuation and Analysis**

Financial analysis and valuation of firms. Corporate strategies, financial reporting issues and market perceptions. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** ACTG 315 and FIN 300 for undergraduate students. One accounting and one finance class or consent of the instructor for graduate students.

ACTG 494 1–4 hrs.**Special Topics in Accounting**

Topics rotate in various areas of accounting, including but not restricted to financial, managerial, governmental, and nonprofit accounting, law, and business ethics. Explores current issues and proposed alternatives. **Prerequisite(s):** Two courses in accounting or finance beyond ACTG 211 and FIN 300 or the equivalent.

ACTG 495 4 hrs.**Competitive Strategy**

Multidisciplinary analysis of organization strategy and policy, using case method and/or business simulation. Assignments involve extensive library research and oral and written reports. **Prerequisite(s):** Senior standing in the College of Business Administration and completion of all other CBA Core courses, or consent of the instructor.

African American Studies**AAST 100 3 hrs.****Introduction to African American Studies**

The African American experience, focusing on African and African American culture, the slave trade, slavery, and emancipation in the Americas, social structure, and civil rights. *Individual and Society, and U.S. Society course.*

AAST 103 3 hrs.**African American Politics and Culture**

A survey of African American political and cultural activism from the Black Convention Movement of the 1830's to con-

temporary times. **Same as** POLS 112. *Individual and Society, and U.S. Society course.*

AAST 104 3 hrs.**Race, Place, and Schooling: African Americans and Education**

Examination of the social, political, cultural, and economic factors shaping African American's educational experiences in the United States historically and currently. **Same as** EDPS 104. *Individual and Society, and U.S. Society course.*

AAST 105 3 hrs.**African Americans in Film, 1900—Present: Images, Individuals and Ideas on Screen**

Examination of the history of African Americans in film from Oscar Micheaux to Spike Lee and Julie Dash; the careers of Black filmmakers, actors, images, themes, and ideas in films by and about people of African descent in the 20th century. **Same as** COMM 105. *Creative Arts, and U.S. Society course.*

AAST 110 3 hrs.**Introduction to African American Literature, 1760–1910**

Comprehensive survey, 1760–1910, from earliest folk roots to formal literary tradition. **Same as** ENGL 118. *Creative Arts, and Individual and Society course.*

AAST 111 3 hrs.**Introduction to African American Literature since 1910**

Comprehensive survey of African American literature from 1910 to the present. **Same as** ENGL 119. *Creative Arts, and U.S. Society course.*

AAST 120 3 hrs.**African American Religious Traditions**

Introduction to the significance of religion and religious institutions in African American history. Examination of Christian and non-Christian traditions, mainstream and sectarian. *Past, and U.S. Society course.*

AAST 141 3 hrs.**African Civilization**

Introduction to history and historical methods through the study of African history. **Same as** HIST 141. *Past, and World Cultures course.*

AAST 191 3 hrs.**African and Caribbean Francophone Literature in Translation**

An introduction to the Francophone literature of Africa and the Caribbean and to its historical and cultural contexts. **Same as** FR 191. *Creative Arts, and World Cultures course.*

AAST 200 3 hrs.**History of Race Relations in America**

An examination of American racial thought and racial discrimination to determine how the content and function of both have changed over time. **Same as** HIST 251 and LALS 251.

AAST 201 3 hrs.**The Psychology of African Americans**

Historical analysis of various psychological approaches to the African American experience and identity. Special attention to development of African American psychology as a disciplinary orientation. **Same as** PSCH 201. **Prerequisite(s):** AAST 100 or PSCH 100 or consent of the instructor. *Individual and Society, and U.S. Society course.*

AAST 202 3 hrs.**African American Behavioral Patterns**

Formal theories on personality in terms of interdependence between personal characteristics, African American culture, and oppression; social-psychological aspects of black identity and interpersonal behavior. **Same as** PSCH 202. **Prerequisite(s):** PSCH 100 or consent of the instructor. **Recommended background:** Credit in AAST 201 or PSCH 201. *Individual and Society, and U.S. Society course.*

AAST 203 3 hrs.**The African American Family in the United States**

Examination of the structure and functioning of the African American family. Historical and contemporary analyses. **Same as** SOC 203. **Prerequisite(s):** AAST 100 or SOC 100 or consent of the instructor. *Individual and Society, and U.S. Society course.*

AAST 206 3 hrs.**Interdisciplinary Research Methods in African American Studies**

Introduction to the use of interdisciplinary research methods as a means of studying the African American experience. **Prerequisite(s):** Credit or concurrent registration in AAST 100; or consent of the instructor. For African American Studies majors and minors only.

AAST 210 3 hrs.**The Art and Archaeology of Ancient Egypt**

Ancient Egypt from 6000 BC–400 AD. Architecture, sculpture, and painting in their social and historical contexts. **Same as** AH 210 and ARST 210. **Prerequisite(s):** Sophomore standing. *Creative Arts, and Past course.*

AAST 212 3 hrs.**Techniques of African American Creative Writing**

Exploration of the relationship between African American culture and literary styles. Specific emphasis on Dunbar, Hughes, Toomer, Brown, Ellison, Baldwin, Brooks, Morrison, and Jones. **Prerequisite(s):** AAST 100 or ENGL 160.

AAST 225 3 hrs.
Racial and Ethnic Groups
 Sociological and social-psychological analysis of racial, religious, and other ethnic groups; consideration of historical and current social problems arising from their relationships in society. **Same as** LALS 225 and SOC 225.
Prerequisite(s): SOC 100; or consent of the instructor.
Individual and Society, and U.S. Society course.

AAST 229 3 hrs.
Africa and its Diasporas
 This course on the African diaspora critically analyses the cultural, economic, geographic, and historical implications of population movements from Africa from the 15th century to the present. **Same as** HIST 229.
Prerequisite(s): AAST 100 or AAST 241 or HIST 241 or AAST 242 or HIST 242 or AAST 247 or HIST 247 or AAST 248 or HIST 248. *Past, and World Cultures course.*

AAST 241 3 hrs.
Precolonial Africa
 Development of human civilization; the rise of kingdoms and territorial states; migration of peoples; the spread and impact of Islam; west African trading networks. **Same as** HIST 241. *Past, and World Cultures course.*

AAST 242 3 hrs.
Modern Africa
 The effect of European partition and colonialism; African military and political resistance; economic imperialism; the rise of nationalism; the problems of independence. **Same as** HIST 242. *Past, and World Cultures course.*

AAST 245 3 hrs.
Politics and Government of Africa
 Contemporary political systems of selected African countries with emphasis on political leadership, nationalism, ideological trends, and economic development. **Same as** POLS 245.
Prerequisite(s): POLS 130 or POLS 190 or AAST 100; or consent of the instructor. *World Cultures course.*

AAST 247 3 hrs.
African American History to 1877
 Survey of major social, economic, political, and cultural developments in African American history from the rise of the Atlantic Slave Trade to Reconstruction. **Same as** HIST 247.
Prerequisite(s): One course in African American studies or history, or consent of the instructor.
Past, and U.S. Society course.

AAST 248 3 hrs.
African American History since 1877
 Survey of major social, economic, and political developments in African American history since Reconstruction. Topics include Jim Crow, black leadership, migration, civil rights, and nationalism. **Same as** HIST 248.
Prerequisite(s): One course in African American studies or history, or consent of the instructor.
Past, and U.S. Society course.

AAST 249 3 hrs.
Black Freedom Movements in the U.S.
 A survey of African American resistance and social change movements from the 1900s through the 1970s; the political ideologies and practices of various leaders and organizations that have had an impact on African American politics. *Past, and U.S. Society course.*

AAST 250 3 hrs.
Comparative Black Literatures
 The study and analysis of selected works of literature and criticism in the context of the African diaspora. **Same as** ENGL 260.
Creative Arts, and U.S. Society course.

AAST 251 3 hrs.
African Americans and the Law to 1954
 Survey of the African American constitutional experience from the 1600s until the landmark *Brown* decision in 1954 striking down state-sponsored racial segregation and de jure discrimination. **Same as** POLS 251.
Prerequisite(s): Grade of C or better in AAST 100 or grade of C or better in POLS 101 or grade of C or better in POLS 103 or grade of C or better in POLS 190; or consent of the instructor. *Past, and U.S. Society course.*

AAST 252 3 hrs.
African Americans and the Law, since 1954
 Survey of the African American constitutional experience since the landmark 1954 *Brown* decision to the present day. **Same as** POLS 252. **Prerequisite(s):** Grade of C or better in AAST 100 or grade of C or better in POLS 101 or grade of C or better in POLS 103 or grade of C or better in POLS 190; or consent of the instructor. **Recommended background:** AAST 251 or POLS 251. *Past, and U.S. Society course.*

AAST 258 3 hrs.
Race and Urban Life
 Examines the experiences of Blacks in urban areas since the 1900's. **Same as** SOC 258.

AAST 261 3 hrs.
Reading Black Women Writing
 Examines inscriptions of race, gender, class, and sexuality as they shape the literary and critical practices of nineteenth- and twentieth-century black women writers. **Same as** GWS 261 and

ENGL 261. Previously listed as AAST 470. **Prerequisite(s):** Grade of C or better in AAST 100 or grade of C or better in AAST 110 or grade of C or better in AAST 111 or grade of C or better in ENGL 118 or grade of C or better in ENGL 119 or grade of C or better in ENGL 240; or consent of the instructor.

AAST 262 3 hrs.
Black Cultural Studies
 Introduction to approaches, methods, and key debates in the study of black culture in a transnational and diasporic context. **Same as** ENGL 262.
Prerequisite(s): AAST 100.
Creative Arts, and U.S. Society course.

AAST 263 3 hrs.
African American Intellectual History
 Introduction to key figures, developments, and debates in African American intellectual history. **Same as** HIST 263.
Prerequisite(s): AAST 100.
Individual and Society, and Past course.

AAST 264 3 hrs.
African American Art
 Interdisciplinary survey of the artistic production of African American artists from the nineteenth century to the present. **Same as** AH 264. *Creative Arts, and World Cultures course.*

AAST 265 3 hrs.
The Harlem Renaissance
 The intellectual, cultural, and artistic expressions among African Americans from 1912 to 1933, with an emphasis on the literary texts and social history. **Same as** ENGL 265. Previously listed as AAST 350.
Prerequisite(s): Grade of C or better in AAST 100; and grade of C or better in AAST 110 or grade of C or better in AAST 111; or grade of C or better in ENGL 240 and grade of C or better in ENGL 243; or consent of the instructor. *Past, and U.S. Society course.*

AAST 266 3 hrs.
Topics in African Literature
 The study and analysis of selected works of African literature, history, and criticism. **Same as** ENGL 266. May be repeated.
Creative Arts, and World Cultures course.

AAST 270 3 hrs.
African Art
 Survey of the arts of the major tribal cultures of sub-Saharan Africa. **Same as** AH 270.
Prerequisite(s): 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts, and World Cultures course.*

AAST 271 3 hrs.
African Americans and the Politics of Incarceration
 Examination of the status of African Americans as offenders, victims, and personnel within the criminal justice system. **Same as** CLJ 271 and SOC 271.
 Previously listed as AAST 371.
Prerequisite(s): AAST 100 or

CLJ 101 or SOC 100; or consent of the instructor. *Individual and Society, and U.S. Society course.*

AAST 272 3 hrs.
Race, Gender, and Sexuality
 The course will focus on the various ways that African American Studies has conceptualized issues of gender and sexuality. **Same as** GWS 272. **Prerequisite(s):** AAST 100. *Individual and Society, and U.S. Society course.*

AAST 294 3 hrs.
Topics in African American Studies
 Selected topics. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Junior standing or consent of the instructor.

AAST 306 3 hrs.
Black Politics in the United States
 Historical analysis of Black electoral politics in the U.S., including traditional political party participation and movement politics. **Same as** POLS 311.
Prerequisite(s): Three courses in political science, history, or sociology, or consent of the instructor.

AAST 340 3 hrs.
Advanced Interdisciplinary Seminar in African American Studies
 Provides a theoretical and critical examination of contemporary issues in African American Studies from an interdisciplinary framework. **Prerequisite(s):** Junior standing and declared major in African American studies, or consent of the instructor.

AAST 351 3 hrs.
Topics in Black Art and Literature
 Study of literature and the other arts in the context of the African diaspora. Topics vary. **Same as** ENGL 351. **Prerequisite(s):** Grade of C or better in AAST 100; and grade of C or better in AAST 110 or grade of C or better in AAST 111; or grade of C or better in ENGL 240 and grade of C or better in ENGL 243.

AAST 356 3 hrs.
Constitutional Law: Women, Gender, and Privacy
 A multidisciplinary examination of U.S. constitutional law and politics in shaping issues of gender, privacy, race, and sexual orientation; including reproduction, labor, sexual harassment, political participation, and women and crime. **Same as** GWS 356 and POLS 356. **Prerequisite(s):** Grade of C or better in POLS 101 or grade of C or better in POLS 112 or grade of C or better in AAST 100 or grade of C or better in AAST 103 or grade of C or better in GWS 101; or consent of the instructor.

AAST 390 3 hrs.
Senior Seminar in African American Studies
Facilitates completion of the final project in African American studies required of all majors. In a seminar setting, students will work on individual projects, give feedback to one another, and learn the key skills of academic writing. **Prerequisite(s):** AAST 206 and junior standing or above or consent of the instructor.

AAST 398 3 hrs.
Independent Study: Special Topics
Selected topics for individual research. May be repeated to a maximum of 9 hrs. **Prerequisite(s):** Consent of the instructor and approval of the head of the Department of African American Studies.

AAST 405 3 OR 4 hrs.
Urban Ethnography
The study of processes and meanings in African American communities in urban areas, interviews, participant observation, focus groups. **Same as** SOC 406. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AAST 100; and junior standing or above.

AAST 406 3 OR 4 hrs.
Politics of Race, Gender, and Class
Formation of social status categories, individual and collective identity construction, the mechanisms of group-based marginalization and stigmatization; relationship between social status categories. **Same as** GWS 406. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AAST 100 or GWS 102 or GWS 101; or graduate or professional standing; or consent of the instructor.

AAST 407 3 OR 4 hrs.
Seminar in Comparative Racialization
Provides an interdisciplinary and comparative approach to the making and remaking of "race" and the resultant racialized experiences of different groups in the U.S. and globally. **Same as** SOC 407. **Prerequisite(s):** AAST 247 or AAST 248 or AAST 340 or SOC 225; and senior standing or above; or consent of the instructor.

AAST 410 3 OR 4 hrs.
Seminar in Black Child Development
Race, class, and cultural theories of black child development. Examination of socialization process and developmental outcomes, with particular attention to social attitudes and behaviors. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AAST 201 or PSCH 100 or consent of instructor.

AAST 431 3 OR 4 hrs.
The History and Politics of Africa on Film
Key moments and issues in African history through the eyes of African film and documentary makers. **Same as** MOVI 431. **Prerequisite(s):** Junior standing or above.

AAST 441 3 OR 4 hrs.
Topics in African History
Specific topics are announced each term. **Same as** HIST 441. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** 3 hours of African history, African American studies, or consent of the instructor.

AAST 445 3 OR 4 hrs.
History of Islam in the African World
A comprehensive study of the history of Islam and its role among the people of African descent in sub-Saharan Africa and the United States. **Same as** HIST 445. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

AAST 481 3 OR 4 hrs.
Topics in African and African American History
African and/or African American history for students with significant background in the field. Topics vary. **Same as** HIST 485. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** AAST 247 or AAST 248 or HIST 104 or HIST 247 or HIST 248 or consent of the instructor.

AAST 490 3 OR 4 hrs.
Topics in African American Literature
African American literature and culture for students with significant background in the field. Topics vary. **Same as** ENGL 473. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** AAST 357 or AAST 360 or ENGL 357; and senior standing or above; or consent of the instructor.

AAST 492 3 OR 4 hrs.
Topics in Social Science Research
Inclusive examination of a selected specialized topic based on instructor's field. Topics are drawn from research in political science, psychology, sociology, and history. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** AAST 100 or consent of the instructor.

AAST 496 3 OR 4 hrs.
Topics in Race, Ethnic, and Minority History
Specific topics are announced each term. **Same as** HIST 496. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** 3 hours of history or consent of the instructor.

Anatomy and Cell Biology

ANAT 414 3 hrs.
Neuroanatomy for Allied Health Program
Basic development and gross features of the central nervous system and systems neuroanatomy; motor, sensory and integrative functional areas.

Ancient Greek

GKA 101 4 hrs.
Elementary Ancient Greek I
The fundamentals of ancient classical Greek, including the reading of simple prose.

GKA 102 4 hrs.
Elementary Ancient Greek II
Continues GKA 101. Grammar and reading. **Prerequisite(s):** GKA 101.

GKA 103 4 hrs.
Intermediate Ancient Greek I
Introduction to Greek philosophers and historians. Selections from Plato, Thucydides, Demosthenes, and other Attic prose writers. **Prerequisite(s):** GKA 102.

GKA 104 4 hrs.
Intermediate Ancient Greek II
Introduction to Greek epic and tragedy. Readings from Homer and Euripides. **Prerequisite(s):** GKA 103.

GKA 299 3 hrs.
Independent Reading
Individual study under faculty direction. For students qualified by preparation and interest. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** GKA 104 or the equivalent.

GKA 498 3 OR 4 hrs.
Advanced Topics in Ancient Greek Literature
Intensive reading of ancient Greek literature. Topics vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** 4 hours of ancient Greek at the 200-level or the equivalent.

GKA 499 3 OR 4 hrs.
Independent Reading
Individual study under faculty direction. For students qualified by preparation and interest. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 4 hours of ancient Greek at the 200-level or the equivalent.

Anthropology

ANTH 100 3 hrs.
The Human Adventure
A survey of approaches to the study of the origins and the cultural and biological development of humankind. No credit toward the anthropology major for students with previous courses in anthropology. *Individual and Society, Past, and World Cultures course.*

ANTH 101 3 hrs.
World Cultures: Introduction to Social Anthropology
Concepts and methods in the study of world cultures from a comparative anthropological perspective, emphasizing selected non-U.S. societies, cultures, and ethnographic regions. *Individual and Society, and World Cultures course.*

ANTH 102 4 hrs.
Introduction to Archaeology
This course surveys world prehistory and introduces students to the theories and methods archaeologists use to understand the past. *Natural World—With Lab, and Past course.*

ANTH 105 4 hrs.
Human Evolution
Human evolution and variability; methods of assessing fossil evidence for evolutionary change; principles of biological adaptation. *Natural World—With Lab, and Past course.*

ANTH 110 3 hrs.
Cybernetic Systems
Nontechnical introduction to the major ideas of cybernetics and their applications to learning and evolution, communication and culture, sanity, machines, and what context means. *Individual and Society course.*

ANTH 200 3 hrs.
Anthropological Theory
Theoretical approaches to the study of culture and society in terms of structure, function, and process. **Prerequisite(s):** ANTH 101 or consent of the instructor.

ANTH 210 3 hrs.
Cybernetic Thinking
The logic of cybernetic concepts: stability, change, hierarchy, coupling, feedback, variety, regulation, and their applications to living, social, and cultural systems.

ANTH 211 3 hrs.
Visual Anthropology
History and criticism of documentary films on anthropology. Discussion of the applications of film in field research and viewing of representative examples. **Prerequisite(s):** 3 hours in social sciences or consent of the instructor.

ANTH 212 3 hrs.**Folklore**

Surveying the major folklore genres: proverbs, riddles, games, folksong, and the folk tale, their forms, and how people use them.

ANTH 214 3 hrs.
Sex and Gender in World Cultures

Comparative study of sex roles, gender identity, and male-female relationships, emphasizing biological, ecological, ideological, and symbolic factors associated with cross-cultural variability. **Same as** GWS 214.

Prerequisite(s): 3 hours of social sciences or consent of the instructor. *Individual and Society, and World Cultures course.*

ANTH 215 3 hrs.
Anthropology of Religion

Exploration of varieties of religious experience, including magic and witchcraft, with emphasis on non-Western religions and the role of religious institutions in social integration.

ANTH 216 3 hrs.
Medicine, Culture, and Society

Medical anthropology is the study of human health and illness across culture, time, and location. The cultural, political, and moral components of disease, illness, suffering, health, and well-being will be discussed. **Prerequisite(s):** ANTH 101; or consent of the instructor. *Individual and Society, and World Cultures course.*

ANTH 217 3 hrs.
Special Topics in Cultural Anthropology

Covers special topics in cultural anthropology. May be repeated. Students may register for more than one section per term. **Prerequisite(s):** ANTH 101; or consent of the instructor.

ANTH 218 3 hrs.
Anthropology of Children and Childhood

Examines childhood, a uniquely human life stage, both across cultures and from a biosocial perspective that includes both physical and social development. **Prerequisite(s):** ANTH 101 and ANTH 105; or consent of the instructor. *Individual and Society, and Natural World—No Lab course.*

ANTH 219 3 hrs.
Anthropology of Globalization

Explores capitalism as a culture, its origins, and the problems of consumer culture in the U.S. and the world. **Prerequisite(s):** ANTH 101; or consent of the instructor. *U.S. Society, and World Cultures course.*

ANTH 220 3 hrs.
Method and Theory in Archaeology

Introduction to techniques and methods in archaeology, archaeological reasoning, research design, and methods of analysis. Archaeological methods for the analysis of prehistoric technology, economy, social and political organization. Introduction to

general theories in archaeology. **Prerequisite(s):** ANTH 102 or consent of the instructor.

ANTH 221 3 hrs.
Old World Archaeology I

The evolution of the Old World hunting-gathering cultures to the end of the Pleistocene Age. **Prerequisite(s):** ANTH 102 or consent of the instructor.

ANTH 222 3 hrs.
Hunter-Gatherers, Farmers, and Herders

Introduction to the prehistoric cultures of the Old World. Analysis of the shift from hunting-gathering to agriculture. **Prerequisite(s):** ANTH 102 or consent of the instructor.

ANTH 226 3 hrs.
Archaeology of North America

Introduction to the prehistoric cultures of North America from earliest times until the arrival of Europeans. **Same as** LALS 257. **Prerequisite(s):** ANTH 102 or consent of the instructor.

ANTH 227 3 hrs.
Ancient Civilizations of Mexico and Central America

Analysis and interpretation of the archaeological evidence on the process of development of native civilization in the Mesoamerican area from the beginnings of agricultural settlement to the eve of the Spanish conquest. **Same as** GEOG 207 and LALS 258.

Prerequisite(s): ANTH 102; or sophomore standing or above; or consent of the instructor.

ANTH 228 3 hrs.
Ancient Civilizations of South America

Analysis of the developmental process and social institutions of indigenous civilizations of South America. Emphasis on origins of sedentary life, evolution of cities, and dynamics of the native Andean states. **Same as** LALS 259. **Prerequisite(s):** ANTH 102; or sophomore standing or above, or consent of the instructor.

ANTH 229 3 hrs.
Special Topics in Archaeology

Covers special topics in archaeology. May be repeated. Students may register for more than one section per term. **Prerequisite(s):** ANTH 102; or consent of the instructor. *Past course.*

ANTH 231 4 hrs.
Fossil Humans

The fossil record as it applies to different interpretations of human evolution; principles of evolutionary biology; survey of the biology and behavior of living primates.

ANTH 232 3 hrs.
Evolutionary Medicine

By considering human health and disease from an evolutionary and biocultural perspective, this course offers new insights into why diseases occur and how the human body is adapted to respond to them. **Prerequisite(s):** Grade of B or better in ANTH

105; or grade of B or better in BIOS 101; or grade of B or better in BIOS 104; or consent of the instructor.

ANTH 234 4 hrs.
Modern Human Variation and Adaptation

A broad overview of genetic variation and biosocial adaptation in contemporary human groups. **Prerequisite(s):** ANTH 105.

ANTH 235 4 hrs.
Biological Bases and Evolution of Human Behavior

Comparative behavior of human and nonhuman primates; biological bases of primate behavior in terms of general evolutionary trends.

ANTH 237 4 hrs.
The Human Skeleton

Examination of the human skeleton, emphasizing bone identification and the functional anatomy of locomotion and dentition.

ANTH 238 3 hrs.
Biology of Women

An evolutionary perspective on the biology of women from conception to menopause, in light of current research on genetics, hormones, and development. Topics include sexual differentiation, sex differences, and life history. **Same as** GWS 238. **Prerequisite(s):** Grade of C or better in ANTH 105; or consent of the instructor. *Natural World—No Lab course.*

ANTH 239 3 hrs.
Special Topics in Physical Anthropology

Special topics in Physical Anthropology. May be repeated. Students may register for more than one section per term. **Prerequisite(s):** ANTH 105; or consent of the instructor.

ANTH 241 3 hrs.
Culture and Personality

Introduction to the concepts, theories, and techniques of studies relating the psychology of the individual to the culture; selected non-Western civilizations and preliterate societies. **Prerequisite(s):** ANTH 101, an introductory course in psychology or consent of the instructor.

ANTH 256 3 hrs.
European-Indigenous Interaction in Latin America

Responses of indigenous societies in Latin America to colonization by people from the Old World. The historical and social circumstances of contact and culture change will be covered. **Same as** LALS 256. *World Cultures course.*

ANTH 269 3 hrs.
Art and Archaeology of South America

Survey of Andean prehistory and the development of complex societies from pre-Chavin through Inca as reflected in art, architecture, and other material culture. **Same as** AH 269. Credit is not given for ANTH 269 if the student has credit for ANTH 228 or AH 273 or LALS 239 or LALS 259. **Prerequisite(s):** ANTH 100 or ANTH 102 or AH 100 or AH 110 or AH 111; and sophomore

standing or above; or consent of the instructor. *World Cultures course.*

ANTH 270 3 hrs.
The First Americans

An introduction to the aboriginal Indian cultures of native North America, their ecological adaptations, social organization, and world views. *Individual and Society, and U.S. Society course.*

ANTH 271 3 hrs.
American Indian Religion and Philosophy

Survey of American Indian beliefs about nature and the spirit world, and the rituals connected with those beliefs, including the changes that resulted from European contact. *Individual and Society, and U.S. Society course.*

ANTH 272 3 hrs.
North American Indians

Survey of the indigenous culture of North America as viewed through the generations by early explorers, missionaries, nineteenth century ethnologists, and contemporary social scientists.

ANTH 273 3 hrs.
Ethnography of Southeast Asia

Survey of selected cultures of mainland Southeast Asia, with emphasis on cultural ecology, tribal formation, and nationalism. **Same as** GEOG 273. *Individual and Society, and World Cultures course.*

ANTH 274 3 hrs.
Ethnography of Africa

A survey of the culture areas of sub-Saharan Africa and the study of societies typical of each area. *Individual and Society, and World Cultures course.*

ANTH 275 3 hrs.
South American Indians

Social and cultural practices of the native peoples of the Amazonian tropical forest and the Andes. **Same as** LALS 255. *Individual and Society, and World Cultures course.*

ANTH 276 3 hrs.
Pacific Island Cultures

Polynesian, Micronesian, and Melanesian island societies; their ecosystems and cultures, emphasizing their unity and diversity.

ANTH 277 3 hrs.
Ethnography of Mesoamerica

Survey of the contemporary indigenous cultures of Mesoamerica, studied against their precontact history and in their development since the Spanish Conquest. **Same as** LALS 270. *Individual and Society, and World Cultures course.*

ANTH 278 3 hrs.
Brazil: A Multiethnic Society
 The diverse political, economic, artistic, and folkloric themes of Brazilian life are traced in such national festivals as Carnaval and Sao Joao, and folk religions such as Candomble. **Same as** LALS 272. *Individual and Society, and World Cultures course.*

ANTH 279 3 hrs.
South Asian Cultures and Societies
 Survey of the people and cultures of South Asian Cultures; emphasis on social structure, religion, and recent cultural changes. **Same as** ASST 279. *Individual and Society, and World Cultures course.*

ANTH 280 3 hrs.
China and Japan: Society and Culture
 Survey of social and economic organization during the recent past of China and Japan: analysis of traditional family structure; impact of urbanization and industrialization. **Same as** ASST 280. *Individual and Society, and World Cultures course.*

ANTH 281 3 hrs.
Ethnography of North Africa and the Middle East
 Anthropological introduction to the peoples and cultures of North Africa and the Middle East. Emphasis on contemporary religious, ethnic, political, and gender issues. *Individual and Society, and World Cultures course.*

ANTH 309 3 hrs.
Writing Culture
 A survey of genres of anthropological reporting with a critical examination of the process by which observations are transformed into written form as well as continued development of composition skills. **Prerequisite(s):** ANTH 101 and completion of the University Writing requirement (or its equivalent); or consent of the instructor.

ANTH 310 3 hrs.
An Introduction to the Anthropology of the Body
 Theoretical and methodological approaches to the body as the interface between nature and culture. It considers how culture is embodied, how the body is encultured, and how cultures of perception vary through time and space.

ANTH 311 3 hrs.
The Anthropology of Consumption
 The nature, experience, and cultural politics of consumption from historical and cross-cultural perspectives paying particular attention to the emergence of consumption as a crucial domain within the culture of capitalism.

ANTH 312 3 hrs.
Cross-Cultural and Historical Perspectives of Youth Culture
 The cultural construction of "youth" and "youth culture" through time and around the world. The ways in which age

designations are used to naturalize a variety of broader cultural/ideological projects.

ANTH 313 3 hrs.
Language, Culture, and Society
 Anthropological approaches to the interaction between language, culture, and society traced through ethnographic case studies. Topics include language socialization, gender, class, ethnicity, toponyms, and multilingualism. **Prerequisite(s):** Grade of C or better in ANTH 101; and completion of the University Writing requirement; and junior standing or above; or consent of the instructor.

ANTH 320 3 hrs.
Topics in Archaeology
 Readings, study, and discussion of selected problems in archaeology. Topics will vary. **Prerequisite(s):** ANTH 102 and successful completion of one archaeology class at the 200-level.

ANTH 321 3 hrs.
Prehistory of the Near East
 Consideration of Southwestern Asia as the core area for the development of Homo sapiens and the emergence of the earliest civilizations.

ANTH 330 4 hrs.
Primate Evolution
 Paleontology and systematics of fossil primates, emphasizing the adaptive radiations of the major living groups. **Same as** BIOS 313.

ANTH 335 3 hrs.
Topics in Physical Anthropology
 Theoretical and substantive issues in the study of both human and nonhuman primates as well as hominids, as represented in current journals and topical volumes. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** ANTH 105 and one 200-level course in physical anthropology.

ANTH 386 3 hrs.
Elements of Spatial Analysis
 Implications of geographic concerns for data gathering and analysis. Spatial sampling and weighting of areal data. Reconciling record and zone inconsistencies when merging data from several sources. **Same as** GEOG 386. **Prerequisite(s):** Consent of the instructor.

ANTH 390 3 hrs.
Honors Research
 Individual study or research projects for students seeking departmental distinction. May be repeated to a maximum of 6 hrs. Successful completion necessary for Departmental Distinction with final paper submitted to three-member honors committee for approval. **Prerequisite(s):** Junior standing or above, approval of the department, a 3.00 University grade point average, and a 3.50 grade point average in Anthropology.

ANTH 394 3 hrs.
Topics in Anthropology
 Reading, study, and discussion of selected problems in anthropology. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** ANTH 101 or consent of the instructor.

ANTH 401 3 OR 4 hrs.
Linguistic Anthropology
 Exploration of the relationship between language and culture in a cross-cultural perspective. Attention to methods of field research as well as theory and substantive issues. Course information: 3 undergraduate hrs. 4 graduate hrs.

ANTH 405 3 hrs.
Human Growth and Nutrition
 Worldwide variation in human growth and the factors that contribute to differences between populations and individuals in the timing and pattern of growth and development. **Same as** EPID 405.

ANTH 409 3 OR 4 hrs.
Ancient Maya Writing, Language, and Culture
 Recent trends in Maya epigraphy, information gained from Maya hieroglyphs, linguistics, and historical ethnographies are applied to anthropological analyses of past lifeways. **Same as** LALS 409. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

ANTH 411 3 OR 4 hrs.
Urban Cultural Problems
 A study of the processes of urbanization and of cultural and social adjustments to the city; illustrated by case studies. 3 undergraduate hrs. 4 graduate hrs.

ANTH 413 3 OR 4 hrs.
Social Organization
 Theory and method in the study of kinship and social organization, for advanced undergraduate and graduate students. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 213 or graduate standing or consent of the instructor.

ANTH 414 3 OR 4 hrs.
Symbolic Anthropology
 The interpretation of cultures through their ritual, religions, culture, and other types of symbolism. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 101 or consent of the instructor.

ANTH 415 3 OR 4 hrs.
Foundations in Anthropology and Global Health I
 Explores the field of cultural medical anthropology and provides a theoretical foundation allowing for understanding and exploration of anthropology's role in international health. **Same as** IPHS 415. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in ANTH 216; and junior standing or above; or consent of the instructor.

ANTH 416 3 OR 4 hrs.
Foundations in Anthropology and Global Health II
 Provides an evolutionary and biocultural approach to human biology, physiology, health, and disease. **Same as** IPHS 416. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in ANTH 232; and junior standing or above; or consent of the instructor.

ANTH 417 3 OR 4 hrs.
Marxist Approaches to Anthropology
 Issues concerning Marx's theories on primitive societies, the development of his evolutionary model from Morgan's work, and current use of Marxist concepts in anthropology. 3 undergraduate hrs. 4 graduate hrs.

ANTH 418 3 OR 4 hrs.
Ethnographic and Qualitative Research Methods
 Practical introduction to the techniques of social scientists for research in natural social settings: participant observation/nonparticipant observation, interviewing, use of documentary sources, etc. **Same as** GEOG 418. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above.

ANTH 420 3 OR 4 hrs.
Seminar in Archaeology and Ethnography
 Case studies of investigations in archeology using research monographs and other primary sources. Substantive data and related theoretical problems are examined simultaneously. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 15 hrs. **Prerequisite(s):** Junior standing or consent of the instructor.

ANTH 421 3 OR 4 hrs.
Geomorphology and Archaeology
 Relevance of geomorphic processes and landform development to archaeology; role of geomorphology in archaeological surveys, paleogeographic reconstruction, and archaeological interpretation. Elements of geoarchaeology. **Same as** GEOG 432. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 131 or EAES 101 or consent of the instructor.

ANTH 422 3 OR 4 hrs.
Prehistory of the Levant and the Nile Valley
 Detailed analysis of Levantine and Nile Valley prehistory during the Pleistocene and early Holocene. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 221 or ANTH 222 or consent of the instructor.

ANTH 423 3 OR 4 hrs.**Andean Prehistory**

An overview of the cultural evolution of the Andean region from the arrival of the first inhabitants to the development of the Inca empire. **Same as** LALS 423. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 228 or ANTH 269; or consent of the instructor.

ANTH 424 3 OR 4 hrs.**Violence**

Explores how men and women have experienced violence historically and in modern times. Students examine how violence is perpetrated through words, pictures, physical harm, and silences. **Same as** CLJ 423. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CLJ 101 and CLJ 200.

ANTH 425 4 hrs.**Field Techniques in Archaeology**

Exposure to field methods in archaeology through participation in an actual research project. Students are instructed in field excavation techniques. Usually offered in summer session. **Same as** GEOG 425. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 426 or GEOG 426.

ANTH 426 4 hrs.**Laboratory Techniques in Archaeology**

Exposes students to laboratory methods in archaeology through the analysis of excavated materials. Students are instructed in laboratory techniques. **Same as** GEOG 426. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 425 or GEOG 425.

ANTH 427 3 OR 4 hrs.**Theory and Application in Ethnoarchaeology**

Focuses on the application of scientific experimentation and ethnographic information to enhance our understanding of the archaeological record, material culture, and past human behavior. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One 100- or 200-level archaeology course; or graduate standing and consent of the instructor.

ANTH 428 3 OR 4 hrs.**Chiefdoms**

Focus on traditional nonstate, yet complex, societies known as chiefdoms. Examine the organization and evolution of such societies through a combination of ethnographic, historical, and archaeological data. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 101 or ANTH 102; or consent of the instructor.

ANTH 429 3 OR 4 hrs.**Archaeological Methods**

This course will familiarize students with various methodologies used by archaeologists and geoarchaeologists. Course will concentrate on a different method each time it is taught. Course information: **Same as** GEOG 429. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register for more than one section per term.

ANTH 430 4 OR 5 hrs.**Seminar in Primate Biology**

Theoretical and substantive issues in the study of nonhuman primates and hominids, as represented in current journals and topical volumes. 4 undergraduate hrs. 5 graduate hrs. May be repeated up to 2 time(s). Students may register for more than one section per term.

ANTH 432 3 OR 4 hrs.**Mortuary Archaeology**

Provides a cross-cultural survey of mortuary customs, an overview of general theoretical approaches, and a critical analysis in the study of mortuary customs and human remains in archaeological contexts. 3 undergraduate hours; 4 graduate hrs. **Prerequisite(s):** Undergraduates only: Grade of C or better in ANTH 237. **Recommended background:** Undergraduates only: 200-level courses in archaeology and cultural anthropology.

ANTH 437 5 hrs.**Bioarchaeology**

Provides an overview of mortuary theory and the bioarchaeological methods used to study health and disease, diet, activity patterns, kinship, and cultural practices in archaeological populations. **Prerequisite(s):** Grade of B or better in ANTH 237; and consent of the instructor.

ANTH 438 3 OR 4 hrs.**Reproductive Ecology**

Utilizes an evolutionary framework to consider both proximate (physiological) and ultimate (evolutionary) explanations for the relationship between female and male reproductive patterns and environmental challenges. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in ANTH 238, and graduate or professional standing; or consent of the instructor.

ANTH 440 3 OR 4 hrs.**The Experience of Culture Difference: Culture Shock**

Explores experience of different cultures, the process of learning a different culture, and issues arising from the nature of the encounter in fieldwork. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One course in social or cultural anthropology, or experience in another culture.

ANTH 441 3 OR 4 hrs.**Psychoanalytic Anthropology I: Cross-Cultural Theory**

Introduction for social scientists to psychoanalytic theory and methods including Freud's theories and more recent developments. Cross-cultural tests and applications of psychoanalytic theories. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One course in anthropology or psychology; or consent of the instructor.

ANTH 442 3 OR 4 hrs.**Psychoanalytic Anthropology II: Cross-Cultural Applications**

Explores ways in which anthropologists and analysts have used psychoanalysis to understand individuals, practices, and institutions of other cultures. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 441 or consent of the instructor.

ANTH 443 3 OR 4 hrs.**Leadership: Psychology, Strategy, Culture**

Psychological and anthropological theories of leadership developed on our culture will be tested against descriptions of leadership in diverse non-Western societies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One course in anthropology.

ANTH 444 3 OR 4 hrs.**Dreams, Dreaming, and Dream Beliefs**

The dreaming experience examined from the point of view of psychological interpretation, laboratory experiments, and anthropological study of dreams in other cultures. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One course in anthropology or psychology and junior or senior standing, or consent of the instructor.

ANTH 445 3 OR 4 hrs.**Structuralism in Anthropology**

Explores the theoretical approach offered by structuralism emphasizing that elements of culture must be understood in terms of their relationship to the entire system. 3 undergraduate hrs. 4 graduate hrs.

ANTH 453 3 OR 4 hrs.**Seminar in Cultural Ecology**

Cultural ecology and cultural evolution, emphasizing peasant farming and other subsistence systems. Soil management under shifting and sedentary agriculture. **Same as** GEOG 453. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 101 or GEOG 151 or consent of the instructor.

ANTH 454 3 OR 4 hrs.**A Dynamic Human Habitat: Amazonia Past, Present, and Future**

Traces the dynamic interaction of humans and their habitats in Amazonia from prehistory until today, illustrating the coevolution of its environments and populations. 3 undergraduate hrs. 4 graduate hrs.

ANTH 455 3 OR 4 hrs.**Quantitative Methods**

Introductory statistics course in statistical methods for anthropological problem solving. Primary emphasis is on univariate and bivariate statistics, such as means, standard deviations, correlation, chi square, t-tests, and simple regressions. **Same as** GEOG 455. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

ANTH 461 4 hrs.**Museum Collecting: Documentation, Registration, and Curation**

Introduction to the collection of anthropological objects for museum curation. Ethics of collecting, standards for documentation, legal aspects of collecting, ethnographic interviewing, registration of objects and archives, curation and housing.

ANTH 462 4 hrs.**Museum Exhibit Research and Design**

Introduction to anthropological museum exhibitions. Issues of representation and cultural politics, museums; roles in the communities they serve, developing a story around objects, and the technical aspects of exhibit design.

ANTH 470 3 OR 4 hrs.**Classic Ethnographies**

Analysis of method and theory reflected in selected classic anthropological works, studied in their historical contexts and contemporary uses. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 101 or ANTH 213 or consent of the instructor.

ANTH 473 3 OR 4 hrs.**Anthropology of Social Movements**

Examines the causes of social change from the perspective of sociocultural anthropology. An ethnographic approach to political life, how communities describe and enact their experiences as individuals and citizens. 3 undergraduate hours; 4 graduate hrs.

ANTH 474 3 OR 4 hrs.**Urban Cultures of Africa**

A study of the indigenous urban centers of sub-Saharan Africa; the multicultural cities of colonial and contemporary Africa, and the processes of detribalization. 3 undergraduate hrs. 4 graduate hrs.

ANTH 475 3 OR 4 hrs.**Indians of the Andes and the Amazon**

Intensive research in theoretical and ethnographic problems in South American Indian social structures and cultures. Special attention will be given Levi-Strauss' ideas on the formulation of cultural theory in South America. **Same as** LALS 475. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 213 or consent of the instructor.

ANTH 476 3 hrs.**Rise and Fall of the Inca Empire**

Using an integration of ethnographic, historical, and archaeological information, this course is designed to provide a thorough introduction to the study of the Incas. **Prerequisite(s):** Sophomore standing or above.

ANTH 477 4 hrs.**Remote Sensing of the Environment**

Principles and practices of processing and interpretation of remotely sensed imagery including aerial photographs, radar, and multispectral satellite images. Hands-on use of image-processing software. **Same as** GEOG 477. Extensive computer use required.

ANTH 478 3 OR 4 hrs.**Paleo-Indians and Peopling of the Americas: From Alaska to Tierra del Fuego**

Summarizes current knowledge of the first migration of humans to the New World, analyzes its significance, and evaluates the controversies. 3 undergraduate hrs. 4 graduate hrs.

ANTH 479 3 OR 4 hrs.**Culture and Colonialism in South Asia**

Examines the emergence of colonial cultures of domination and resistance on the Indian subcontinent from the eighteenth century to 1947. **Same as** ASST 479 and HIST 479. 3 undergraduate hrs. 4 graduate hrs.

ANTH 480 3 OR 4 hrs.**Sociolinguistics**

Variations in language that correlate with variation in societies and smaller social groups; interactions of languages and societies. **Same as** LING 480. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** LING 405 or junior standing and consent of the instructor.

ANTH 481 4 hrs.**Geographic Information Systems I**

Components and performance properties of geographic information systems. Geographic hierarchies and data structures. Problems and solutions in handling large geographic files. Geocoding. **Same as** GEOG 481. **Prerequisite(s):** GEOG 100 and one from GEOG 278, GEOG 386, IDS 100; or consent of the instructor.

ANTH 482 4 hrs.**Geographic Information Systems II**

Application of raster- or grid-based geographic information systems to the spatial analysis of landscapes. **Same as** GEOG 482.

ANTH 483 4 hrs.**Geographic Information Systems III**

Problems encountered in the analysis and portrayal of geographic data. Topics include taxonometry, regionalization, trend surface analysis, time series,

markov probabilities, and computer cartographic procedures for displaying output from analytic procedures. **Same as** GEOG 483. **Prerequisite(s):** GEOG 482 or ANTH 482 or consent of the instructor.

ANTH 484 4 hrs.**Mapping with Microcomputers**

Microcomputer applications, including computer principles for mapping, alternative design for coordinate files, kinds of devices for mapping, direct control of devices for mapping, characteristics and limitations of mapping programs. **Same as** GEOG 478. **Prerequisite(s):** GEOG 475 or consent of the instructor.

ANTH 485 4 hrs.**Computer Cartography**

The fundamentals of cartography and cartographic design. The use of state-of-the-art, Windows-based computer mapping software for querying and displaying cartographic data contained in GIS databases. **Same as** GEOG 485.

ANTH 490 1–6 hrs.**Independent Study**

Independent reading under the supervision of a faculty member. May be repeated to a maximum of 8 hours with approval. Students may register in more than one section per term. **Prerequisite(s):** Junior standing and consent of the instructor.

ANTH 494 3 OR 4 hrs.**Special Topics in Anthropology**

Reading, study, and discussion of selected problems for graduate students and majors in anthropology. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** Junior standing or approval of the department.

ANTH 496 1–4 hrs.**Internship**

Professional field experience with an agency or organization in the private or public sector on projects related to the student's area of specialization. **Same as** GEOG 496. May be repeated to a maximum of 8 hrs. Only 4 hours of credit may be applied toward the Minor in Geography. **Prerequisite(s):** Declared major in Anthropology, minor in Geography or full graduate standing in Anthropology or Geography and consent of the faculty advisor, head of the department, or the director of internship programs.

Arabic**ARAB 101 4 hrs.****Elementary Arabic I**

Introduction to and practice in speaking, reading, and writing Arabic and comprehending spoken Arabic. Credit is not given for ARAB 101 if the student has credit for ARAB 115.

Prerequisite(s): For students who have not studied Arabic or placement as determined by test score or consent of the instructor.

ARAB 102 4 hrs.**Elementary Arabic II**

Continues Arabic 101. Credit is not given for ARAB 102 if the student has credit for ARAB 115.

Prerequisite(s): ARAB 101 or adequate performance on the placement test or consent of the instructor.

ARAB 103 4 hrs.**Intermediate Arabic I**

Continuation of practice in speaking, reading, and writing Arabic and comprehending spoken Arabic. **Prerequisite(s):** ARAB 102 or ARAB 115 or appropriate score on the department placement test or consent of the instructor.

ARAB 104 4 hrs.**Intermediate Arabic II**

Continuation of practice in comprehending spoken Arabic and reading Arabic with some work in speaking and writing Arabic. **Prerequisite(s):** ARAB 103 or adequate performance on the placement test or consent of the instructor.

ARAB 115 8 hrs.**Intensive Elementary Arabic**

This course provides an intensive introduction to Modern Standard Arabic with emphasis on speaking, reading, and writing. Five additional hours each week in the language laboratory. Equivalent to Arabic 101 and 102 combined. Offered during selected summers only. **Prerequisite(s):** For students who have not studied Arabic. No credit given if the student has credit in ARAB 101 or ARAB 102.

ARAB 116 8 hrs.**Intensive Intermediate Arabic**

Intermediate Arabic with emphasis on speaking, reading, and writing. Credit is not given for ARAB 116 if the student has credit for ARAB 103 or ARAB 104. Five additional hours each week in the language laboratory. Offered during selected summers only. **Prerequisite(s):** ARAB 101 and ARAB 102; or ARAB 115; or the equivalent.

ARAB 201 4 hrs.**Advanced Literary Arabic**

Reading texts and advanced Arabic grammar focusing on the weak verbs and complex syntax. Texts include passages from the Qur'an, Kalila wa Dimna, and other stories, novels, newspaper articles, and academic articles. One additional hour each week in the language laboratory.

Prerequisite(s): ARAB 104 or appropriate score on the departmental placement test and consent of the instructor.

ARAB 202 4 hrs.**Qur'an/Advanced Literary Arabic**

Readings in the Qur'an, including further advanced Arabic grammar focusing on the weak verbs and complex syntax. One additional hour each week in the language laboratory.

Prerequisite(s): ARAB 201 or appropriate score on the placement test and consent of the instructor.

ARAB 230 3 hrs.**Arabic Literature in Translation**

Introduces students to the genres and themes of classical and modern Arabic literature in translation. Taught in English. *World Cultures course.*

ARAB 250 3 hrs.**The Heritage of Muslim Iberia**

Examines the history, culture, and scientific achievements associated with the Muslim presence in Iberia from 711 CE to the fall of Grenada in 1492 CE, and the interplay of Arab and non-Arab cultures in the Western Mediterranean. Taught in English. *Past, and World Cultures course.*

ARAB 255 3 hrs.**Greek Science, Islamic Culture**

Traces the reception and development of the ancient sciences in medieval Islamic culture. **Same as** CL 255. Taught in English. *Past, and World Cultures course.*

ARAB 298 3 hrs.**Topics in Arabic Studies**

Selected topics at an intermediate level in Arabic Studies. May be repeated. Taught in English.

ARAB 299 1–3 hrs.**Independent Reading**

Individually planned readings on selected topics under faculty supervision. May be repeated to a maximum of 3 hrs. Taught in English. **Prerequisite(s):** Consent of the instructor.

ARAB 310 3 hrs.**Aristotle and the Arabs**

Traces the major topics of ancient Greek philosophy, especially those of Aristotle, and their transformation into the philosophy developed in the Arabic classical period. **Same as** CL 310 and PHIL 310. **Prerequisite(s):** CL 221 or PHIL 221 or RELS 230.

Archaeological Studies

ARST 209 3 hrs.
The Art and Archaeology of the Ancient Near East
 Introduction to the ancient cultures of Mesopotamia and neighboring regions from the first settled villages of the early Neolithic to the Persian conquest of Babylon. **Same as** AH 209.
Prerequisite(s): Sophomore standing or above.

ARST 210 3 hrs.
The Art and Archaeology of Ancient Egypt
 Ancient Egypt from 6000 BC–400 AD. Architecture, sculpture, and painting in their social and historical contexts. **Same as** AAST 210 and AH 210.
Prerequisite(s): Sophomore standing. *Creative Arts, and Past course.*

Architecture

ARCH 105 4 hrs.
Design Foundations: Visual Studies
 Introduction to the visual and graphic principles of architectural design and production, with emphasis on observation, process, and composition, developed under the theme of representation and visual culture. Field trips required at a nominal fee.
Prerequisite(s): Approval of the department.

ARCH 106 4 hrs.
Design Foundations: Physical Studies
 Introduction to materials and methods of assembly in architectural design and production, with emphasis on design process, problem solving, and construction, developed under the general theme of representation and visual culture. **Prerequisite(s):** ARCH 105 and approval of the department.

ARCH 163 6 hrs.
Introduction to Architecture I and II
 Introduction to visual and graphic principles of architectural design and production and relation to materials and methods with emphasis on design process, problem solving, and construction. For students transferring into the Bachelor of Science in Architecture program from other institutions and qualifying UIC students changing majors.
Prerequisite(s): Approval of the school.

ARCH 205 4 hrs.
Building Design I
 Principles of building design and representation explored through integrative analysis of program, site, structure, materials, mechanical systems, and composition, developed under the general theme of building science and technology. Extensive computer use required. Field trips required at a nominal fee. Fieldwork required. Students will use city as a research laboratory with field-

work on project sites. Additional scheduled field trips will be made to significant or historical architectural buildings as part of preliminary design research and analysis. **Prerequisite(s):** Average grade of C or better in both ARCH 105 and ARCH 106 and approval of the department.

ARCH 206 4 hrs.
Building Design II
 Expands basic principles of building design and representation explored through integrative analysis of program, site, structure, materials, mechanical systems, and composition, developed under the general theme of building science and technology. Extensive computer use required. Field trips required at a nominal fee. Fieldwork required. Students will use city as a research laboratory with fieldwork on project sites. Additional scheduled field trips will be made to significant or historical architectural buildings as part of preliminary design research and analysis. **Prerequisite(s):** ARCH 205 and approval of the department.

ARCH 251 3 hrs.
Architectural Analysis
 Analysis of the form and space of the built environment beginning with experiential and empirical inquiry and expanding to formal, visual, compositional, and perceptual techniques.
Prerequisite(s): ARCH 106 or approval of the department.
Corequisite(s): Concurrent registration in ARCH 205. **Schedule Information:** To be properly registered, students must enroll in one Lecture and one Laboratory.

ARCH 252 3 hrs.
Beginnings of Modern Architectural Theory
 Introduction to the concept of architectural theory as an integral part of making, understanding, and interpreting works of architecture. **Prerequisite(s):** ARCH 205 and ARCH 251; and approval of the department.
Corequisite(s): Concurrent registration in ARCH 206. **Schedule Information:** To be properly registered, students must enroll in one Lecture and one Laboratory.

ARCH 331 1–6 hrs.
Architecture Seminar
 Current problems. May be repeated to a maximum of 6 hrs.
Prerequisite(s): Consent of the instructor.

ARCH 332 1–6 hrs.
Architecture Reading Course
 Individually planned readings on selected topics under the supervision of a faculty member. Prior to registration, the student should be advised by the instructor. May be repeated to a maximum of 6 hrs.
Prerequisite(s): Consent of the instructor.

ARCH 359 4 hrs.
Introduction to Building Science I: Ethics in Building
 Examines the architect's role in protecting the health, safety, and welfare of the public through

responsible and ethical building practices. **Prerequisite(s):** Third-year standing in the Bachelor of Science in Architecture program or approval of the school. Requires concurrent registration in ARCH 365.

ARCH 360 4 hrs.
Introduction to Building Science II: Technics in Building
 Introduction to building construction processes, terminology, principles, conventions, standards, applications, restrictions, and communications pertaining to construction materials and assemblies. **Prerequisite(s):** ARCH 359 or approval of the school. Requires concurrent registration in ARCH 366.

ARCH 365 6 hrs.
Building Design Studio III
 Intermediate exercises in building design and representation explored through integrative analysis of program, site, structure, materials, mechanical systems, and composition, developed under the general theme of city and environment. Extensive computer use required. Field trip required at a nominal fee. Fieldwork required. Students will use city as a research laboratory with fieldwork on project sites. Additional scheduled field trips will be made to significant or historical architectural buildings as part of preliminary design research and analysis.
Prerequisite(s): Average grade of C or better in ARCH 205 and ARCH 206 and approval of the department.

ARCH 366 6 hrs.
Building Design Studio IV
 Extended intermediate exercises in building design and representation explored through integrative analysis of program, site, structure, materials, mechanical systems, and composition, developed under the general theme of city and environment. Extensive computer use required. Field trips required at a nominal fee. Fieldwork required. Students will use city as a research laboratory with fieldwork on project sites. Additional scheduled field trips will be made to significant or historical architectural buildings as part of preliminary design research and analysis.
Prerequisite(s): ARCH 365 and approval of the department.

ARCH 371 3 hrs.
Design and the Environment
 Design of the built environment engaged with the natural environment. Influence of natural elements on the making of architecture. Relationship of architecture to site and landscape. Must enroll concurrently in ARCH 365.

ARCH 372 3 hrs.
Design and the City
 Theory of the city, including typologies of urban form, transformation of the concept of the city through history, and contemporary urban design and planning issues. **Prerequisite(s):** ARCH 371.

ARCH 391 0–17 hrs.
Architectural Study Abroad
 Lectures, seminars, studio, and independent travel/study abroad. Architectural/art history, architectural elective and/or architectural theory and analysis. May be repeated to a maximum of 34 hrs. **Prerequisite(s):** A 2.50 cumulative grade point average in architecture and approval of the school.

ARCH 395 1 hour.
Cooperative Education
 Introduction to architectural practice. Offers students the opportunity to couple academic learning with professional experience in an off-campus placement. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 3 hrs. Fieldwork required. **Prerequisite(s):** Consent of the instructor. Restricted to students with third- or fourth-year standing in the BS in Architecture program.

ARCH 399 3 hrs.
Architecture Elective I
 Special topics in theory, design, building science, technology, or graphic skills. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** Approval of the school.

ARCH 414 3 hrs.
Professional Practices
 Relationship of the discipline of architecture to the profession. Exposure to interdisciplinary studies that may lead to alternative careers in allied businesses and professions. **Prerequisite(s):** ARCH 252 and approval of the department.

ARCH 443 2 hrs.
Professional Practice I
 Legal and ethical considerations in architectural practice; operation and management guidelines. Overview of the history of the professional architectural practice. **Prerequisite(s):** Completion of the second plateau or approval of the school.

ARCH 444 2 hrs.
Professional Practice II
 Business and financial considerations in architectural practice; scope of services communications and marketing guidelines. Interrelationship with clients, consultants, collaborators, and the manufacturing and construction industry. **Prerequisite(s):** ARCH 443 and approval of the school.

ARCH 465 6 hrs.**Comprehensive Studio**

Capstone senior design studio that culminates in a comprehensive project that explores the relationship of architecture to society, technological change, and structural and environmental innovation. Extensive computer use required. Field trip required at a nominal fee. Fieldwork required. Students will use city as a research laboratory with fieldwork on project sites. Additional scheduled field trips will be made to significant or historical architectural buildings as part of preliminary design research and analysis. **Prerequisite(s):** Average grade of C or better in both ARCH 365 and 366; ARCH 360 ARCH 372 and junior standing or above and approval of the department.

ARCH 466 6 hrs.
Option Studio

Topic options studio that culminates Bachelor of Science studio sequence exploring topics at the scale of room, building, city, and region dependent on interests of faculty. Extensive computer use required. Field trip required at a nominal fee. Fieldwork required. Students will use city as a research laboratory with fieldwork on project sites. Additional scheduled field trips will be made to significant or historical architectural buildings as part of preliminary design research and analysis. **Prerequisite(s):** ARCH 465 and approval of the department.

ARCH 470 4 hrs.
Structures I: Statics

Introduction to the analysis of structural elements. Introduction to fundamental structural planning criteria and relevant concepts of tension, compression, and bending. Introduction to historical and contemporary structural precedents. **Prerequisite(s):** MATH 180 and PHYS 105 and PHYS 106.

ARCH 471 3 hrs.
Structures II: Strength of Materials

Introduction to material properties; strength characteristics of building materials and material assemblies; stress and strain; rigidity and deformation; temperature effects; torsion effects; combined loading of elements and systems. **Prerequisite(s):** ARCH 470 and approval of the school.

ARCH 486 4 hrs.
Urban Ecologies and Infrastructures

Introduction to dynamic relationship of ecology and infrastructure in the context of contemporary urban landscape. Built and natural environments as inseparable networks of a dynamic process. **Prerequisite(s):** Graduate standing in the Master of Architecture program or, for students in the Bachelor of Science in Architecture program, consent of the instructor.

ARCH 499 3 OR 4 hrs.**Special Topics**

Special topics in theory, design, technology, or graphic skills and craft (manual or digital). 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 3 time(s). **Prerequisite(s):** Senior standing or above.

Art and Design**AD 102 4 hrs.**
Drawing I: Beginning

Introduction to drawing: orientation to the descriptive and expressive potential of drawing through exposure to a variety of subjects, media, and formal concepts. **Prerequisite(s):** Approval of the school.

AD 110 4 hrs.
Graphic Design I

Introduction to graphic design: fundamental exploration of visual, abstract form making with the emphasis on the understanding of two- and three-dimensional perception as related to communication. **Prerequisite(s):** Approval of the school.

AD 120 4 hrs.
Industrial Design I

Introduction to industrial design: problem solving in three-dimensional organization, with individual projects requiring advanced shop tooling, and supportive drawing systems in orthographic, isometric, and perspective representation. **Prerequisite(s):** Approval of the school.

AD 140 4 hrs.
Sculpture I: Beginning

Major directions and underlying historical precedents in contemporary sculpture. Orientation to concepts of 3-dimensionality through use of relevant processes and techniques. **Prerequisite(s):** Approval of the school.

AD 160 4 hrs.
Photography I

Introduction to analog and digital photography: basic familiarity with the camera, studio, wet darkroom processes, digital techniques and programs. Introduction to social, cultural, critical, and aesthetic considerations of the medium. **Prerequisite(s):** Approval of the school.

AD 170 4 hrs.
Introduction to Time-Based Visual Arts

Introduction to time-based visual arts: basic experimentation with duration, image sequence, context, and perception effects as related to film, video, and electronic visualization. **Prerequisite(s):** Approval of the school.

AD 203 4 hrs.**Topics in Drawing Studio I**

Drawing for art majors: 2-D and 3-D process course focused on conceptual/contextual drawing, integration of technology and mediated images. Topics emphasize at direction of instructor. **Prerequisite(s):** Completion of the Art and Design First-Year Program, and faculty approval of student portfolio through Annual Spring Portfolio Review. Sophomore standing or above; or consent of the instructor.

AD 205 4 hrs.
Introduction to Computer Graphics

Introduction to the microcomputer for personal expression, including graphics programming, real-time computer animation, sound, and interactive software design. Extensive computer use required. **Prerequisite(s):** Completion of the Art and Design First-Year Program, and faculty approval of the student portfolio through Annual Spring Portfolio Review. Sophomore standing or above.

AD 206 4 hrs.
Intermediate Computer Graphics

Advanced concepts and methods for interactive media, computer graphics programming, and multimedia applications for the World Wide Web. Extensive computer use required. **Prerequisite(s):** AD 205 and sophomore standing or above; or consent of the instructor.

AD 209 4 hrs.
Color Theory

To develop, through experience, observation and articulation, an understanding of color and color action, and a feeling for color relationships. **Prerequisite(s):** Completion of the Art and Design First-Year Program.

AD 210 4 hrs.
Graphic Design II

Form comparison and sequencing. Introduction to symbols, images, and letterforms. **Prerequisite(s):** Completion of the Art and Design First-Year Program and approval of the school.

AD 211 4 hrs.
Graphic Design III

Materials and processes in image making; the interaction of media in problem solving. Theory and practice of symbols and semiotic codes in society. **Prerequisite(s):** AD 210.

AD 219 4 hrs.
Typography I

Introduction to the esthetics and mechanics of typography. **Prerequisite(s):** Credit or concurrent registration in AD 210 or credit or concurrent registration in AD 211.

AD 220 4 hrs.
Industrial Design II

First of two skill-based courses that teach 2-D/3-D visualization through product prototyping, sketching, and solid modeling.

Emphasizes interconnection between digital and physical tools. Extensive computer use required. **Prerequisite(s):** Completion of the Art and Design First-Year Program, or the equivalent, and faculty approval of the student portfolio through Annual Spring Portfolio Review. Sophomore standing or above.

AD 221 4 hrs.
Industrial Design III

Second of two skill-based courses that teach 2-D/3-D visualization through product prototyping, sketching, and solid modeling. Emphasizes interconnection between digital and physical tools. Extensive computer use required. **Prerequisite(s):** AD 220 and AD 223 and sophomore standing or above; or consent of the instructor.

AD 223 4 hrs.
Drawing for Designers

Builds on the basic drawing skills needed in Industrial Design, including perspective drawing, orthographic drawing, freehand sketching and computer rendering. **Prerequisite(s):** Completion of the Art and Design First-Year Program, or the equivalent, and faculty approval of student portfolio through Annual Spring Portfolio Review. Sophomore standing or above.

AD 230 4 hrs.
Painting I

Beginning painting: introduction to major directions of contemporary painting; underlying historical precedents; orientation to subjects and formal concepts using relevant materials and processes. **Prerequisite(s):** Completion of the Art and Design First-Year Program, and faculty approval of student portfolio through Annual Spring Portfolio Review. Sophomore standing or above, or consent of the instructor. For the Studio Arts minor: AD 102 and approval of the school.

AD 251 4 hrs.
Topics in Seriality and Replication

2-D and 3-D drawing/printmaking/printing/object making process course focused on multiples, seriality, and replication; conceptual and contextual integration of technology and mediated images. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** Completion of the Art and Design First-Year Program, and faculty approval of student portfolio through Annual Spring Portfolio Review; AD 203 and sophomore standing or above; or consent of the instructor.

AD 261 4 hrs.
Color Photography

Processes, techniques, materials, and aesthetics of color photography and their application. **Prerequisite(s):** AD 209 and AD 267 and AD 268 and junior standing or above; or consent of the instructor.

AD 262 4 hrs.
View Camera and Lighting Studio
 Introduction to the view camera, advanced black and white film exposure/processing and the lighting studio; studio hot lights and studio flash. **Prerequisite(s):** AD 267 and AD 268 and junior standing or above; and consent of the instructor.

AD 267 4 hrs.
Methods and Techniques of Digital Photography
 Intermediate course addressing techniques and aesthetics of digital photography, including imaging and processing software and output. Extensive computer use required. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review; sophomore standing or above; or consent of the instructor.

AD 268 4 hrs.
Methods and Techniques of Analog Photography
 Intermediate course addressing techniques and aesthetics of analog photography, including imaging, processing, and output. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review; sophomore standing or above; or consent of the instructor.

AD 271 4 hrs.
16mm Film Production I
 An introduction to 16mm film production. Basic film handling, cinematography, and film editing as well as screenings, discussion, and readings on experimental cinema. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review; sophomore standing or above.

AD 274 4 hrs.
Motion Graphics I
 Introduction to basic motion picture animation techniques including stop-motion, cycles, metamorphosis, and special graphic processes and effects. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review; sophomore standing or above.

AD 275 4 hrs.
Writing for Moving Image
 Project-based course is an introduction to screenwriting. Students learn the principles of substance, structure and style, and how to write in proper script format. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review, sophomore standing or above; or consent of the instructor.

AD 276 4 hrs.
Audio
 Audio production for film, video and sound artists. Study of basic recording, mixing, and dissemination techniques and contemporary/historical overview of how artists engage with audio. Extensive computer use required. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review, sophomore standing or above; or consent of the instructor.

AD 278 4 hrs.
Moving Image I
 Introductory project-based course for basic video art production using small format video systems to teach historical relationship to tradition of avant-garde film, early television, performance, photography, and future media. Extensive computer use required. **Prerequisite(s):** Completion of the Art and Design First-Year Program, sophomore standing or above; or consent of the instructor.

AD 281 4 hrs.
Foundations of Art Education
 Contextualizes methods of teaching art within histories of art and education. Design and teach curriculum that emphasizes contemporary art, cultural diversity, adolescent development, and community issues. May be repeated once if grade lower than B. Fieldwork required. **Prerequisite(s):** ED 210 and junior standing or above and approval of the school.

AD 290 4 hrs.
Interdisciplinary Seminar I
 Topical seminar in contemporary art. Introductory seminar for art majors, topics vary from semester to semester at instructor's discretion. **Prerequisite(s):** Completion of the Art and Design First-Year Program and faculty approval of student portfolio through Annual Spring Portfolio Review. Open only to sophomores and juniors.

AD 304 4 hrs.
Advanced Topics in Drawing
 Advanced topics directed by the instructor; may include individual study and related readings in contemporary art; further investigation and expanded applications in drawing. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** AD 203 and junior standing or above; or consent of the instructor. Studio Arts majors must have credit in AH 160.

AD 305 4 hrs.
Electronic Visualization I
 Electronic visualization and computer graphics programming for interactive applications and animations. Extensive computer use required. **Prerequisite(s):** AD 206 and credit or concurrent registration in AD 308, and junior standing or above; or consent of the instructor.

AD 306 4 hrs.
Special Topics in Art and Design
 Specialized topics in art and design directed and announced by the instructor. May be repeated. **Prerequisite(s):** Completion of the Art and Design First-Year Program and consent of the instructor.

AD 307 4 hrs.
Electronic Visualization II
 Advanced electronic visualization and computer graphics programming for interactive applications and animations. Extensive computer use required. **Prerequisite(s):** AD 305 and AD 308 and credit or concurrent registration in AD 309, and junior standing or above; or consent of the instructor.

AD 308 4 hrs.
3-D Modeling
 Concepts and methods of 3-D modeling for interactive applications. Extensive computer use required. **Prerequisite(s):** AD 206 and junior standing or above; or consent of the instructor.

AD 309 4 hrs.
Advanced 3-D Modeling/Animation
 Advanced concepts and methods of 3-D modeling for interactive applications and virtual reality projects. Extensive computer use required. **Prerequisite(s):** AD 308 and junior standing or above; or consent of the instructor.

AD 314 4 hrs.
Graphic Design IV
 Design and typographic practice and exploration with emphasis on current technology and grid systems in graphic design. **Prerequisite(s):** AD 211 and AD 219.

AD 315 4 hrs.
Graphic Design V
 Design in the third dimension. Architectural, environmental, packaging, and/or exhibition applications. The understanding of how graphic designers work beyond the studio emphasized. **Prerequisite(s):** AD 314.

AD 317 4 hrs.
Digital Media in Graphic Design
 Investigates the relationship between image, typography, and meaning within the context of the digital environment. Extensive computer use required. **Prerequisite(s):** AD 205 and AD 211; and credit or concurrent registration in AD 314, or credit or concurrent registration in AD 315; and junior standing or above or approval of the school.

AD 319 4 hrs.
Typography II
 Experimental typography. **Prerequisite(s):** AD 219 and AD 314.

AD 320 4 hrs.
Industrial Design IV
 This is a process-based studio course that applies second year design skills to design problems focused on holistic, sustainable, or environmental concerns. Extensive computer use required. **Prerequisite(s):** AD 221 and credit or concurrent registration in AD 322, and junior standing or above; or consent of the instructor.

AD 321 4 hrs.
Industrial Design V
 This process-based studio course applies design skills to design problems using team/collaborative learning within an interdisciplinary context. Extensive computer use required. **Prerequisite(s):** AD 320 and AD 322 and credit or concurrent registration in AD 326, and junior standing or above; or consent of the instructor.

AD 322 4 hrs.
Interactive Product Design I
 Introduction to the design of interactive products and art works using information design, interaction design and presentation design methods. Applications include interactive Web site design. Extensive computer use required. Previously listed as AD 325. **Prerequisite(s):** AD 205 and junior standing or above; or consent of the instructor.

AD 326 4 hrs.
Industrial Design Materials and Methods
 Knowledge-based, primer/overview of manufacturing/materials processes utilized in everyday mass-produced products. Includes field trips. **Prerequisite(s):** AD 320 and AD 322 and credit or concurrent registration in AD 321, and junior standing or above; or consent of the instructor.

AD 332 4 hrs.
Topics in Painting
 In-depth focus regarding a specific topic/emphasis under the direction of the instructor; direct experience and related readings investigate innovations and major directions in contemporary painting. May be repeated to a maximum of 12 hrs. Previously listed as AD 231. **Prerequisite(s):** AD 230 and AD 290 and credit or concurrent registration in AD 391; junior standing or above; or consent of the instructor. Studio Arts majors must have a minimum of 16 hours of 200-level art and design courses.

AD 342 4 hrs.
Topics in Sculpture
 Studio class structured around a specific topic related to contemporary sculpture making. Topics will be directed by the instructor. May be repeated to a maximum of 12 hrs. Previously listed as AD 241. **Prerequisite(s):** Sophomore standing or above; AD 290 and credit or concurrent registration in AD 391; or consent of the instructor. Studio Arts majors must have a minimum of 16 hours of 200-level art and design courses.

AD 360 4 hrs.
Advanced Projects in Digital Media
 Production of advanced projects in digital media art utilizing diverse software and equipment for input and output, display and distribution. May be repeated to a maximum of 8 hrs. Previously listed as AD 264. Extensive computer use required.
Prerequisite(s): AD 267 and AD 268 and junior standing or above; or consent of the instructor.

AD 362 4 hrs.
Documentary Media
 Photographic and moving image media as applied to the documentation of real-life situations and events. Previously listed as AD 263. **Prerequisite(s):** AD 267 and AD 268; or AD 261; or AD 271; and junior standing or above; or consent of the instructor.

AD 371 4 hrs.
16mm Film Production II
 A follow-up to AD 271. Advanced film production techniques, such as sync sound production, the use of color film, and digital editing of 16mm film. Previously listed as AD 272. **Prerequisite(s):** AD 271 and junior standing or above; or consent of the instructor.

AD 374 4 hrs.
Motion Graphics II
 Applications of advanced methods in film animation. Creative projects utilizing sound synchronization, computer motion synthesis, and related techniques. Previously listed as AD 474. Extensive computer use required. **Prerequisite(s):** AD 274 and junior standing or above; or consent of the instructor.

AD 378 4 hrs.
Moving Image II
 Project-oriented course emphasizes advanced art production from the areas of video, film, animation, and sound using small format systems. Previously listed as AD 478. Extensive computer use required. **Prerequisite(s):** AD 278 and junior standing or above; or consent of the instructor.

AD 382 4 hrs.
Art Education Practicum
 Experience in classroom teaching and curriculum design, connecting practices of contemporary art making with practices of contemporary critical pedagogy. Design and teach interdisciplinary curriculum. May be repeated once if grade is lower than B. **Prerequisite(s):** Grade of B or better or concurrent registration in AD 281 and junior standing or above and approval of the department.

AD 391 4 hrs.
Interdisciplinary Seminar II
 Relationship between artist's studio practice, professional art making, and critical writing relevant to contemporary art practice, including research, criticism, and historical/biographical narrative. **Prerequisite(s):** AD 290 and junior standing or above; minimum of 8 hours of major-level course work and concurrent registration in one 200-level or 300-level major art course.

AD 400 1-16 hrs.
Foreign Studies in Art and Design
 Study abroad within approved programs of foreign exchange and/or education. Satisfactory/Unsatisfactory grading only. May be repeated with approval. Approval to repeat course granted by the appropriate major area faculty committee, the director of the school and/or director of graduate studies. Graduate credit only with approval of the director of the school and the director of graduate studies. **Prerequisite(s):** Junior or graduate standing within a major program within the School of Art and Design and approval of the appropriate major area faculty committee, director of the school and/or director of graduate studies.

AD 405 0-5 hrs.
Smart Art: Physical Computing
 A practical and conceptual exploration into electronic sensors, processors and effectors as applied to interactive media and interaction design. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 309 and credit or concurrent registration in AD 407; and senior standing or above; or consent of the instructor.

AD 406 0-5 hrs.
Advanced Special Topics in Art and Design
 Intensive workshops in specific art and design related topics and techniques directed and announced by the instructor. 1 to 4 undergraduate hrs. 2 to 5 graduate hrs. May be repeated. **Prerequisite(s):** Junior or graduate standing, and consent of the instructor.
 UH GM

AD 407 0-5 hrs.
Virtual Reality I
 A practical and conceptual exploration into the production of interactive virtual reality experiences for art and design. Virtual reality authoring tools and scripting. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 309 and credit or concurrent registration in AD 405; and senior standing or above; or consent of the instructor.

AD 408 0-5 hrs.
Virtual Reality II
 Advanced concepts and methods in interactive media and virtual reality production for art and design. Programming for customized software tool development. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 405 and AD 407 and credit or concurrent registration in AD 409; and credit or concurrent registration in AD 415; and senior standing or above; or consent of the instructor.

AD 409 0-5 hrs.
Electronic Visualization: Senior Project
 A practical and conceptual exploration into the production of a public interactive media event. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 405 and AD 407 and credit or concurrent registration in AD 408; and senior standing or above; or consent of the instructor.

AD 410 1-5 hrs.
Advanced Special Topics in Graphic Design
 Intensive workshops in specific graphic design related topics and techniques directed and announced by the instructor. 1 to 4 undergraduate hrs. 2 to 5 graduate hrs. May be repeated. A maximum of 8 hours of credit is allowed for undergraduates; 10 hours for graduate students. Extensive computer use required. **Prerequisite(s):** AD 315; and junior standing or above; and consent of the instructor. Portfolio review required.
 UH GM

AD 411 0-5 hrs.
Graphic Design Professional Practice
 Design projects with real-world clients in the private or public sector. The designer/client relationship. 4 undergraduate hrs. 5 graduate hrs. **Prerequisite(s):** AD 315 and AD 317; and senior standing or above; and consent of the instructor.

AD 412 0-5 hrs.
Graphic Design Thesis
 Thesis topics chosen in consultation with graphic design faculty. 4 undergraduate hrs. 5 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** Credit or concurrent registration in AD 315 and credit or concurrent registration in AD 317 and credit or concurrent registration in AD 411; and consent of the instructor.

AD 413 0-5 hrs.
Interactive Design
 Advanced examination of graphic design in the new media technologies. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 315 and credit or concurrent registration in AD 412, and senior standing or above.

AD 414 0-5 hrs.
Interactivity in Graphic Design
 Advanced examination of graphic design in the new media technologies. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 315 and AD 317 and credit or concurrent registration in AD 412.

AD 415 4 OR 5 hrs.
Design Colloquium
 Presentations, lectures, and discussions conducted by faculty, design professionals and individuals from design-related disciplines. Overview and contextual understanding of design theory, practice, process, and research. 4 undergraduate hrs. 5 graduate hrs. **Prerequisite(s):** Senior standing or above, and consent of the instructor. Senior students must be in their final semester and preparing to graduate at the end of that semester.

AD 418 1-5 hrs.
Independent Study in Graphic Design
 Supervised independent study in graphic design. 1 to 4 undergraduate hrs. 2 to 5 graduate hrs. May be repeated. A maximum of 8 hours of credit is allowed for undergraduates; 10 hours for graduate students. Extensive computer use required. **Prerequisite(s):** Senior standing or above and consent of the instructor. Taken by faculty invitation only.
 UH GM

AD 420 0-5 hrs.
Interdisciplinary Product Development I
 "Real-world" simulation collaborating in teams with other disciplines gathering, assimilating, and synthesizing information for problem identification to investigate and solve a problem. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 321 and AD 326 and credit or concurrent registration in AD 422; and senior standing or above; or consent of the instructor.

AD 421 0-5 hrs.
Interdisciplinary Product Development II
 "Real world" simulation collaborating in teams with other disciplines to assimilate and synthesize information into action plan, design development, and implementation within structured stage-gated product development process. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 420 and AD 422 and credit or concurrent registration in AD 423; and credit or concurrent registration in AD 415; and senior standing or above; or consent of the instructor.

AD 422 0–5 hrs.
Interactive Product Design II
Advanced 2-D and 3-D methods in the design of interactive products and art works. Includes human factors, 3-D modeling and design of 3-D virtual products. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 321 and AD 326 and credit or concurrent registration in AD 420; and senior standing or above; or consent of the instructor.

AD 423 0–5 hrs.
Industrial Design Thesis
Capstone course that enables students to select and explore an area of industrial design research. 4 undergraduate hrs. 5 graduate hrs. Extensive computer use required. **Prerequisite(s):** AD 420 and AD 422 and credit or concurrent registration in AD 421; and credit or concurrent registration in AD 415; and senior standing or above; and consent of the instructor.

AD 424 4 OR 5 hrs.
Industrial Design Independent Study
Supervised independent study in any area of industrial design activity not covered in the regular curriculum. 4 undergraduate hrs. 5 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** AD 320 and AD 321 and senior standing or above; and consent of the instructor.

AD 425 0–5 hrs.
Design Visualization
Advanced principles, methodologies, and tools for designing both mechanical and electronic interactive products using digital tools as well as analysis utilizing prototyping and user testing methods. Applications include interactive Web site design. 4 undergraduate hrs. 5 graduate hrs. May be repeated up to 1 time(s). Extensive computer use required. **Prerequisite(s):** AD 322 and senior standing or above; and consent of the instructor.

AD 462 6 hrs.
Advanced Art/Studio Critique
Critique/discussion for advanced art majors. **Prerequisite(s):** AD 391 and senior standing or above; and consent of the instructor. Open only to Studio Arts, Photography, Moving Image majors who have completed their major art requirements.

AD 463 6 hrs.
Art/Studio Thesis
Exhibition/thesis production and seminar culminating in an exhibition/final thesis show for graduating seniors. **Prerequisite(s):** AD 462 and senior standing or above; and consent of the instructor. Open only to Studio Arts, Photography, Moving Image majors who have completed all requirements and are prepared to graduate.

AD 471 0–5 hrs.
Advanced Film/Video/Animation
Investigation of contemporary concerns in various areas of film and/or video activity under the direction of an instructor. 4 undergraduate hrs. 5 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** AD 272 or AD 474, and consent of the instructor.

AD 472 4–12 hrs.
Independent Study in Film/Video/Electronic Visualization
Supervised independent study in any areas of cinema, video production, or electronic visualization. May be repeated to a maximum of 12 hrs. Students may register for more than one four-hour section per term, or repeat the course in four-hour sections in subsequent terms. **Prerequisite(s):** 12 hours in any film, video, and/or electronic visualization courses and consent of the instructor.

AD 482 4 hrs.
Visual and Verbal Literacy in Art Education
Explores relevance of critical theory, text-based contemporary art, cultural studies, and aesthetics to the school art curriculum. Strategies for incorporating reading and writing into arts education. May be repeated once if grade is lower than B. Fieldwork required. **Prerequisite(s):** Grade of B or better in AD 281; and credit or concurrent registration in AD 382; and junior standing or above; and approval of the school.

AD 484 6 hrs.
Educational Practice with Seminar I
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Field experience plus lecture, demonstration and discussion. May be repeated once if grade lower than B. Graduate credit only with approval of the school. **Prerequisite(s):** Grade of B or better in AD 281 and grade of B or better in AD 382 and grade of B or better in AD 482; and credit or concurrent registration in AD 485; and senior standing or above and completion of 100 clock hours of pre-student-teaching field experiences, and approval of the school.

AD 485 6 hrs.
Educational Practice with Seminar II
The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Field experience, plus lecture, demonstration, and discussion. May be repeated once if grade lower than B. Graduate credit only with approval of the school. **Prerequisite(s):** Grade of B or better in AD 281 and grade of B or better in AD 382 and grade of

B or better in AD 482; and credit or concurrent registration in AD 484; and senior standing or above and good academic standing in a teacher education program and completion of 100 clock hours of pre-student-teaching field experience and approval of the school.

AD 488 0–4 hrs.
Computer Graphics I
Principles of interactive computer graphics. Raster and vector display, techniques and hardware considerations. Introduction to two-dimensional and three-dimensional rendering. Laboratory. **Same as** CS 488. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Credit or concurrent registration in CS 340.

AD 494 1–5 hrs.
Special Topics in Art Therapy
Specializations, new developments in the field, in-depth study of theory, process, application, or independent study. 1 to 4 undergraduate hrs. 2 to 5 graduate hrs. May be repeated. Students may register in more than one section per term. A maximum of 8 hours of credit is allowed for undergraduates; 10 hours for graduate students. **Prerequisite(s):** Consent of the instructor.

UH GM

AD 499 0–4 hrs.
Cooperative Education
Introduction to professional practice offering students the opportunity to couple academic learning with professional experience in an off-campus placement. Satisfactory/Unsatisfactory grading only. May be repeated. Only 8 hours of credit may be counted toward satisfying requirements for any art and design major. **Prerequisite(s):** Junior standing, a minimum cumulative grade point average of 3.00, and approval of the school.

Art History

AH 100 3 hrs.
Introduction to Art and Art History
Forms, meanings, and purposes, of art. Discussion of techniques, styles, and content as well as historical and social contexts, in various media and cultures. *Creative Arts course.*

AH 110 4 hrs.
Art History I
Survey of world art and architecture from prehistoric times to the end of the Middle Ages. *Creative Arts course.*

AH 111 4 hrs.
Art History II
Survey of world art and architecture from the Renaissance to the present. *Creative Arts course.*

AH 122 3 hrs.
History of Chicago Architecture
Survey of Chicago's architecture and built environment from 1803 to the present.

AH 160 3 hrs.
Trends in International Contemporary Art since 1960
Surveys international trends in art since 1960. Emphasis is on movements, new media, intermedia, criticism, and theory. **Prerequisite(s):** Consent of the instructor or major in studio arts.

AH 200 3 hrs.
Theories and Methods in Art History
The methodologies and theories of the discipline and their application to selected problems. Required for majors in art history. **Prerequisite(s):** Sophomore standing and major in Art History, or consent of the instructor.

AH 204 3 hrs.
Greek Art and Archaeology
Contributions of archaeological excavations to the study of ancient Greece, 600 BC to 31 BC. Architecture, sculpture, and painting in their social and historical contexts. **Same as** CL 204 and HIST 204. Credit is not given for AH 204 if the student has credit in CL 215. Taught in English. *Creative Arts, and Past course.*

AH 205 3 hrs.
Roman Art and Archaeology
Contributions of archaeological excavations to the study of ancient Rome and her empire 1000 BC–400 AD. Architecture, sculpture and painting in their social and historical contexts. **Same as** CL 205, and HIST 205. *Creative Arts, and Past course.*

AH 207 3 hrs.
Topics in Architecture, Art, and Design
Selected topics in the history of architecture, art, and design. May be repeated if topics vary. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 209 3 hrs.
The Art and Archaeology of the Ancient Near East
Introduction to the ancient cultures of Mesopotamia and neighboring regions from the first settled villages of the early Neolithic to the Persian conquest of Babylon. **Same as** ARST 209. **Prerequisite(s):** Sophomore standing or above.

AH 210 3 hrs.
The Art and Archaeology of Ancient Egypt
Ancient Egypt from 6000 BC–400 AD. Architecture, sculpture, and painting in their social and historical contexts. **Same as** AAST 210 and ARST 210. **Prerequisite(s):** Sophomore standing. *Creative Arts, and Past course.*

AH 211 3 hrs.
History of Urbanism
 The history of the city: Its form, meaning, function, and representation from classical antiquity to the present. Selected topics in the history of settlement patterns and the planning of cities.
Prerequisite(s): 3 hours of Art History at the 100-level or consent of the instructor.

AH 221 3 hrs.
Medieval Architecture
 The development of early Christian, Byzantine, Romanesque, and Gothic architecture. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 222 3 hrs.
Renaissance Architecture
 The development of architecture in Renaissance Europe, with emphasis on the Italian Peninsula, from 1400 to 1600. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 223 3 hrs.
Baroque Architecture
 The development of architecture in Europe from 1600 to 1750. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 224 3 hrs.
North American Architecture
 The development of architecture, urbanism, and architectural theory over the last 500 years. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 225 3 hrs.
European Architecture, 1750-1900
 The development of European architecture, urbanism, and architectural theory from 1750 to 1900. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 228 3 hrs.
History of Landscape Architecture
 Survey of developments in the history of gardens, parks, and other designed spaces over the past 1000 years. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor.

AH 230 3 hrs.
History of Photography I: 1820-1920
 History of photography from the 1820s to the beginning of the twentieth century. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 231 3 hrs.
History of Photography II: 1900 to Present
 History of photography from the beginning of the twentieth century to the present. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 232 3 hrs.
History of Film I: 1890 to World War II
 History of film from its beginnings in the 1890s up to World War II. **Same as ENGL 232 and MOVI 232.**

AH 233 3 hrs.
History of Film II: World War II to the Present
 History of film from World War II to contemporary movements in world cinema. **Same as ENGL 233 and MOVI 233.**

AH 235 3 hrs.
History of Design I: 1760-1925
 Survey of industrial and graphic design from the Industrial Revolution to 1925. **Prerequisite(s):** 3 hours of Art History at the 100-level or consent of the instructor.

AH 236 3 hrs.
History of Design II: 1925 to the Present
 Survey of industrial and graphic design from 1925 to the present. **Prerequisite(s):** 3 hours of Art History at the 100-level or consent of the instructor. **Recommended background:** AH 235.

AH 242 3 hrs.
Early Christian and Byzantine Art and Architecture
 The art, architecture, and built environment of the Early Christian and Byzantine world from the third to fifteenth century CE. Religious and secular arts are surveyed in their historical contexts, paying attention to political, social, and cultural circumstances. **Prerequisite(s):** Grade of C or better in AH 110 and grade of C or better in AH 111; or consent of the instructor. *Creative Arts course.*

AH 243 3 hrs.
Medieval Art and Architecture
 The art and architecture of the medieval west from 200 CE through the fifteenth century, including urbanism and the built environment. Religious and secular arts are surveyed in their historical context. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 244 3 hrs.
Islamic Art and Architecture
 The art and architecture of Islamic civilizations from the seventh century to the modern period. Religious and secular arts are surveyed in their historical contexts. **Prerequisite(s):** Consent of the instructor or 3 hours of Art History courses at the 100-level. *Creative Arts, and World Cultures course.*

AH 250 3 hrs.
Italian Renaissance Art
 Painting, sculpture, and architecture in Italy from the fourteenth through the sixteenth centuries. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 251 3 hrs.
Northern Renaissance Art and Architecture
 The art and architecture of the Low Countries, Germany, France, and England during the fifteenth and sixteenth centuries. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 252 3 hrs.
Art of the Baroque and Rococo
 European painting, sculpture, and architecture of the seventeenth and early eighteenth centuries. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 260 3 hrs.
European Art from 1750 to 1900
 Painting and sculpture in Western Europe from neoclassicism through early Modernism. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 261 3 hrs.
European and American Art from 1900 to the Present
 The art of Western Europe and the United States from high Modernism and the historic avant-garde movements through postmodernism and the new media arts. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 262 3 hrs.
American Art to 1945
 The visual arts in the United States from the colonial period through 1945. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts course.*

AH 263 3 hrs.
Latin American Colonial Art
 A survey of Latin American art and architecture from European contact to independence. **Same as LALS 263. Prerequisite(s):** Three hours of art history at the 100-level, or consent of the instructor. *Creative Arts, and World Cultures course.*

AH 264 3 hrs.
African American Art
 Interdisciplinary survey of the artistic production of African American artists from the nineteenth century to the present. **Same as AAST 264. Creative Arts, and World Cultures course.**

AH 269 3 hrs.
Art and Archaeology of South America
 Survey of Andean prehistory and the development of complex societies from pre-Chavin through Inca as reflected in art, architecture, and other material culture. **Same as ANTH 269.** Credit is not given for AH 269 if the student has credit for ANTH 228 or AH 273 or LALS 239 or LALS 259. **Prerequisite(s):** ANTH 100 or ANTH 102 or AH 100 or AH 110 or AH 111; and sophomore standing or above; or consent of the instructor. *World Cultures course.*

AH 270 3 hrs.
African Art
 Survey of the arts of the major tribal cultures of sub-Saharan Africa. **Same as AAST 270. Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *Creative Arts, and World Cultures course.*

AH 271 3 hrs.
Native American Art
 Survey of the arts of the indigenous peoples of the United States and Canada. **Same as NAST 271. Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *World Cultures course.*

AH 273 3 hrs.
Pre-Columbian Art of South America
 The art and architecture of the Andean, southern Central American, and Caribbean cultures from 3000 BC to the sixteenth century, including Chavin, Moche, Inca, Taino, and gold-working cultures of northern South America and lower Central America. **Same as LALS 239. Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor. *World Cultures course.*

AH 274 3 hrs.
Pre-Columbian Art of Mesoamerica
 The art and architecture of pre-hispanic peoples of Mexico and northern Central America, including Olmec, Teotihuacan, Maya, Zapotec, and Aztec cultures. **Same as LALS 240. Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor. *World Cultures course.*

AH 275 3 hrs.
South Asian Visual Cultures
 Art and architectural traditions of South Asia, contextualizing their uses and meaning within Hindu, Buddhist, Islamic, and contemporary communities of India, Pakistan, and Bangladesh. **Prerequisite(s):** 3 hours of Art History at the 100-level or consent of the instructor. *Creative Arts, and World Cultures course.*

AH 304 3 hrs.
Alexander the Great and the Hellenistic World
Examines the career of Alexander the Great of Macedon and his legacy in Greece, Egypt, and the Near East, up until the arrival of the Romans. **Same as** CL 304.
Prerequisite(s): Sophomore standing or above.

AH 320 3 hrs.
Asian Architecture
Survey of the historic and contemporary architectures of West Asia, South Asia, Southeast Asia, China, and Japan, as well as the architecture of Asian diasporas. **Same as** ASST 320.
Prerequisite(s): Three hours of art history at the 100-level or consent of the instructor.

AH 322 3 hrs.
Contemporary Architecture
Worldwide trends in recent architecture, urbanism, architectural theory and criticism.
Prerequisite(s): AH 110 and AH 111; or consent of the instructor.

AH 370 3 hrs.
Chinese Visual Culture
Survey of Chinese art and architecture from the early Shang culture through artistic movements in contemporary Chinese art.
Same as ASST 370.
Prerequisite(s): Three hours of art history at the 100-level or consent of the instructor.

AH 371 3 hrs.
Japanese Art
Survey of Japanese architecture, sculpture, painting, woodblock prints, and related arts from Neolithic times to contemporary developments. **Same as** ASST 371.
Prerequisite(s): Three hours of art history at the 100-level or consent of the instructor.

AH 404 3 OR 4 hrs.
Topics in Architecture, Art, and Design
Selected topics in the history of European and North American architecture, art and design. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s) if topics vary. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of art history at the 200-level or consent of the instructor.

AH 422 3 OR 4 hrs.
Topics in the Literature of Architecture
Discussion of selected readings in the theory and criticism of architecture. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours in the history of architecture or consent of the instructor.

AH 424 2–4 hrs.
Topics in Architecture and Urban Form in Chicago
Topics on the development of the built environment of the Chicago and metropolitan area, and the effect on its architecture of social, political, and economic forces.

AH 430 3 OR 4 hrs.
Contemporary Photography
Developments in the history of photography since 1950. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours in the history of photography or consent of the instructor.

AH 432 3 OR 4 hrs.
Topics in Film and Video
Selected studies in genres, schools, individual artists, critics, and theorists of film and video. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Graduate standing or 3 hours in the history of film or consent of the instructor.

AH 434 3 OR 4 hrs.
Women and Film
Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. **Same as** ENGL 472 and GWS 472. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ENGL 302 or ENGL 342 or ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of instructor.

AH 435 3 OR 4 hrs.
Topics in Modern and Contemporary Design
Topics in modern and contemporary design. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours in the history of design or consent of the instructor.

AH 441 3 OR 4 hrs.
Topics in Medieval Art and Architecture
Selected topics in European art and architecture of the Middle Ages. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours of medieval art and architecture or consent of the instructor.

AH 450 3 OR 4 hrs.
Topics in Renaissance Art
Selected topics in Early Renaissance, High Renaissance, or Mannerist Art and Architecture. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** 3 hours in art history at the 200-level or above, or consent of the instructor.

AH 460 3 OR 4 hrs.
Topics in Modern and Contemporary Art
Selected topics in nineteenth- and twentieth-century modern and contemporary art. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours of modern art and architecture or consent of the instructor.

AH 463 3 OR 4 hrs.
Topics in North American Art and Architecture
Selected topics in North American art and architecture from colonial times to 1945. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours of North American art and architecture or consent of the instructor.

AH 464 2–4 hrs.
Topics on Art in Chicago
Topics on the survey of art in Chicago, from the nineteenth century to the present, with an emphasis on contemporary Chicago art expressions.

AH 465 3 OR 4 hrs.
Arts of the Black Atlantic
Interdisciplinary and discursive explorations of the visual and artistic expressions of artists of African descent in the New World. 3 undergraduate hrs. 4 graduate hrs.

AH 470 3 OR 4 hrs.
Topics in Non-Western Art and Architecture
Selected topics in the art and architecture of Africa, Asia, Oceania, and the indigenous peoples of the Americas. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary.

AH 471 3 OR 4 hrs.
Topics in Asian Art and Architecture
Selected topics in the art and architecture of Asia. **Same as** ASST 471. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours of Asian art and/or architecture or consent of the instructor.

AH 480 3 OR 4 hrs.
History of Collecting and Museology
The history of collecting and patronage: public and private collections, museums, and commercial art galleries, government funding, and the arts. Exhibition planning, research, selection, and catalog preparation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AH 110 and AH 111 or consent of the instructor.

AH 481 3 OR 4 hrs.
Museum Practices
Administration of visual arts organizations, their budgets, staffing, structures, accreditation, and long-range planning. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AH 480 or consent of the instructor.

AH 482 6 OR 8 hrs.
Museology Internship
Practical supervised experience in institutions serving the visual arts. Placements in museums, community art centers, college, commercial, or nontraditional galleries, and public agencies. **Prerequisite(s):** AH 481 or consent of the instructor.

AH 485 3 OR 4 hrs.
Introduction to Historic Preservation
Preservation planning, historic building restoration, and the

political and economic factors affecting the conservation of historic resources. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of art history at the 200-level or consent of the instructor.

AH 490 3 hrs.
Honors Thesis
Individual study on a project selected with the approval of the advisor. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Open only to seniors.

AH 491 0–12 hrs.
Study Abroad in Art History
Study abroad within an approved foreign exchange program or department-sponsored program. May be repeated with approval. Approval to repeat course granted by the department. **Prerequisite(s):** Approval of the department.

AH 492 3 OR 4 hrs.
Readings in Art and Architecture History
Individually planned readings on selected topics under the supervision of a faculty member. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register in more than one section per term. **Prerequisite(s):** Junior standing and 3 hours of Art History above the 100-level and consent of the instructor. Enrollment priority will be given to majors and graduate students in Art History.

Asian American Studies

ASAM 123 3 hrs.
Introduction to Asian American Literature
Introductory survey of a wide range of Asian American cultural forms in their sociohistorical contexts. **Same as** ENGL 123. *Creative Arts, and U.S. Society course.*

ASAM 125 3 hrs.
Introduction to Asian American Studies
Overview of Asian American experiences and perspectives in sociohistorical context. Introduction to major concepts, issues, and debates in the field of Asian American Studies. **Same as** ENGL 125 and SOC 125. *Individual and Society, and U.S. Society course.*

ASAM 228 3 hrs.
Sociology of Asia and Asian Americans
Asian and Asian-American culture, institutions, and organization; immigration, population, settlement patterns; occupations and poverty; family and ethnic identification; inequality and politics; values, prejudice, discrimination. **Same as** ASST 228 and SOC 228. **Prerequisite(s):** SOC 100. *Individual and Society, and U.S. Society course.*

ASAM 290 3 hrs.
Special Topics in Asian American Studies
Study of a specific intermediate topic in Asian American studies. May be repeated if content does not duplicate previous course work. May be repeated to a maximum of 12 hrs.

ASAM 328 3 hrs.
Asian American Literature
Historical development of Asian American literature. It will identify specific cultural and political issues that have shaped the broad range and diverse ethnic interests of that writing. **Same as** ENGL 328. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 243. **Recommended background:** ASAM 123 or ENGL 123.

ASAM 428 3 OR 4 hrs.
Asian/Asian American Women in the Global Economy
Examines the racialization and feminization of a global division of labor and focuses primarily on Asian and Asian American women's participation and incorporation as workers and key actors in the development of the global economy. **Same as** GWS 428 and SOC 428. 3 undergraduate hours; 4 graduate hrs. **Prerequisite(s):** ASAM 125 or ENGL 125 or SOC 125 or AAST 225 or LALS 225 or SOC 225 or ASAM 228 or ASST 228 or SOC 228 or ASAM 290 or Two 200-level courses in either SOC, GWS or ASAM, or a combination of these.

ASAM 441 3 OR 4 hrs.
Topics in Asian American Literature and Culture
An advanced seminar that examines various forms of cultural production by Asian American artists of diverse ethnic backgrounds. Topics vary. **Same as** ENGL 441. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 327 or ENGL 328 or ENGL 359; and senior standing or above; or consent of the instructor.

ASAM 490 3 OR 4 hrs.
Advanced Topics in Asian American Studies
Study of a specific advanced topic within Asian American Studies. May be repeated if content does not duplicated previous course work. May be repeated to a maximum of 12 hrs.

Asian Studies

ASST 109 3 hrs.
East Asian Civilization: China
An introduction to Chinese civilization, including history, philosophy, and religions from earliest times to c. 1500. **Same as** HIST 109. *Past, and World Cultures course.*

ASST 110 3 hrs.
East Asian Civilization: Japan
An overview of Japanese history from earliest times to the mid-twentieth century: social structure, economic change, political institutions, religion, and culture. **Same as** HIST 110. *Past, and World Cultures course.*

ASST 228 3 hrs.
Sociology of Asia and Asian Americans
Asian and Asian-American culture, institutions, and organization; immigration, population, settlement patterns; occupations and poverty; family and ethnic identification; inequality and politics; values, prejudice, discrimination. **Same as** ASAM 228 and SOC 228. **Prerequisite(s):** SOC 100. *Individual and Society, and U.S. Society course.*

ASST 231 3 hrs.
Politics in China
The dynamics of the Chinese Communist revolution; post-Mao reforms; the structure and operation of key political institutions; relations with major powers. **Same as** POLS 231. **Prerequisite(s):** POLS 130 or POLS 190; or consent of the instructor. *World Cultures course.*

ASST 232 3 hrs.
Politics in Japan and Korea
Sources, dynamics, and patterns of politics in Japan and the two Koreas. Appraisal of the Japanese model. Comparison of Japan and Korea. **Same as** POLS 232. **Prerequisite(s):** POLS 130 or POLS 190; or consent of the instructor. *World Cultures course.*

ASST 271 3 hrs.
Late Imperial China: 1500 to 1911
A detailed survey of China's late imperial period, covering a broad range of issues from state institutions and elite power, to popular culture and peasant revolt. **Same as** HIST 271. *Past, and World Cultures course.*

ASST 272 3 hrs.
China since 1911
Twentieth-century China from 1911 to the present, including warfare; areas of intellectual inquiry; and changes in government, family, and the role of women. **Same as** HIST 272. *Past, and World Cultures course.*

ASST 273 3 hrs.
Japan to 1600
Topical survey from earliest times to 1600: Political and economic institutions, ideology, class structure, gender, culture, religions, and warfare. **Same as** HIST 273. *Past, and World Cultures course.*

ASST 274 3 hrs.
Japan since 1600
Topical overview of the development of modern Japan: political consolidation, economic growth, international relations, ideology, expansion, and colonialism, American occupation, social movements, environment, and law. **Same as** HIST 274. *Past, and World Cultures course.*

ASST 275 3 hrs.
History of South Asia
An outline of South Asian history from the earliest times to the present, in regional and global contexts. **Same as** HIST 275. *Past, and World Cultures course.*

ASST 276 3 hrs.
Modern South Asia, 1857 to the Present
Examines anticolonial resistance to British rule starting with the 1857 Revolt, Indian nationalism, and the formation of independent nation-states in South Asia. **Same as** HIST 276. *Past, and World Cultures course.*

ASST 279 3 hrs.
South Asian Cultures and Societies
Survey of the people and cultures of South Asian Cultures; emphasis on social structure, religion, and recent cultural changes. **Same as** ANTH 279. *Individual and Society, and World Cultures course.*

ASST 280 3 hrs.
China and Japan: Society and Culture
Survey of social and economic organization during the recent past of China and Japan: analysis of traditional family structure; impact of urbanization and industrialization. **Same as** ANTH 280. *Individual and Society, and World Cultures course.*

ASST 320 3 hrs.
Asian Architecture
Survey of the historic and contemporary architectures of West Asia, South Asia, Southeast Asia, China, and Japan, as well as the architecture of Asian diasporas. **Same as** AH 320. **Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor.

ASST 370 3 hrs.
Chinese Visual Culture
Survey of Chinese art and architecture from the early Shang culture through artistic movements in contemporary Chinese art. **Same as** AH 370. **Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor.

ASST 371 3 hrs.
Japanese Art
Survey of Japanese architecture, sculpture, painting, woodblock prints, and related arts from neolithic times to contemporary developments. **Same as** AH 371. **Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor.

ASST 471 3 OR 4 hrs.
Topics in Asian Art and Architecture
Selected topics in the art and architecture of Asia. **Same as** AH 471. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** 3 hours of Asian art and/or architecture or consent of the instructor.

ASST 472 3 OR 4 hrs.
Issues and Events in Twentieth-Century China
Covers the events, places, people, political movements, ideologies, and issues that shaped twentieth-century China, and considers different approaches to the writing of that history. **Same as** HIST 472. 3 undergraduate hrs. 4 graduate hrs. **Recommended background:** Previous course work in Chinese history at the 100- or 200-level.

ASST 473 3 OR 4 hrs.
Topics in East Asian History
Specific topics are announced each term. **Same as** HIST 473. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of East Asian history or consent of the instructor.

ASST 478 3 OR 4 hrs.
Women in Chinese History
Focuses on scholarship on women in Chinese society throughout history, dealing with topics such as marriage and family, literacy, career options, women in revolution, and the historiography of the field. **Same as** GWS 478 and HIST 478. 3 undergraduate hrs. 4 graduate hrs. **Recommended background:** Previous course work in Chinese history or women's studies.

ASST 479 3 OR 4 hrs.
Culture and Colonialism in South Asia
Examines the emergence of colonial cultures of domination and resistance on the Indian subcontinent from the 18th century to 1947. **Same as** ANTH 479 and HIST 479. 3 undergraduate hrs. 4 graduate hrs.

Associated Health Sciences

AHS 495 1 hour.
Urban Health Multicultural Seminar
Students attend multicultural and urban health-related seminars, participate in faculty-student discussion, academic presentations, and directed reading groups to integrate issues of cultural difference into students' professional development. Satisfactory/Unsatisfactory grading only. May be repeated. All Academy seminars are preapproved: other approved events will be announced to students. Any off-campus events must have prior approval. One academic year is allotted for completion of seminar. Students should register the semester they begin attending lectures; grades will be deferred until course is completed. **Prerequisite(s):** Sophomore standing or above.

Biochemistry and Molecular Genetics

BCMG 307 3 hrs. Fundamentals of Biochemistry

Includes the chemistry of cellular constituents, enzymology, metabolism, and intracellular control and elements of molecular biology. **Prerequisite(s):** General and organic chemistry. Lecture course intended primarily for advanced undergraduate students in associated health sciences.

BCMG 399 1–4 hrs. Introduction to Research Methods

Designed primarily for advanced undergraduate students who will receive a closely supervised research experience in a biochemistry faculty laboratory. **Prerequisite(s):** Credit or concurrent registration in organic chemistry and analytical chemistry; and consent of the instructor.

Bioengineering

BIOE 101 2 hrs. Introduction to Bioengineering

Overview of how the principles and techniques of engineering are applied to help solve problems in the medical and biological sciences. Curricular and career paths discussed; projects, research lab, and facility tours.

BIOE 205 3 hrs. Bioengineering Thermodynamics

Introduction to equilibrium and non-equilibrium thermodynamics, with emphasis on nonequilibrium (living) systems. Applications include thermodynamics of living cells and the lung, molecular energy exchange, and energy exchange in exercise. **Prerequisite(s):** PHYS 142.

BIOE 240 3 hrs. Modeling Physiological Data and Systems

A lecture/discussion course introducing the use of mathematical models and statistics to describe, interpret and analyze physiological data and systems. **Prerequisite(s):** BIOS 100 and MATH 180. Open only to freshmen and sophomores.

BIOE 250 3 hrs. Clinical Problems in Bioengineering

Examination of three to four real problems in bioengineering. Student teams work with a faculty facilitator toward each solution. Problem identification, strategic planning, brainstorming, information gathering, and reporting are formalized. **Prerequisite(s):** BIOE 101. Open only to freshmen and sophomores.

BIOE 310 3 hrs. Biological Systems Analysis

System dynamics and frequency-domain analysis in bioengineering systems. Topics include population models, predator-prey models, metabolic networks, bio-

logical oscillation, dynamics of infectious diseases. No credit given if the student has credit in ECE 310 or ME 312.

Prerequisite(s): MATH 220.

BIOE 325 3 hrs. Biotransport

Transport phenomena in biomedical engineering and living systems, specifically processes vital to the design of medical devices for artificial clinical intervention. Topics include circulatory system dynamics and modeling of physiological systems. **Prerequisite(s):** MATH 220 and BIOS 100.

BIOE 339 3 hrs. Biostatistics I

Statistical treatment of data and model estimation treated in a framework of biological experiments, and attributes of data generated from such experiments. Experimental design is included. Extensive computer use required. **Prerequisite(s):** MATH 210; and CS 107 or CS 108 or CS 109. **Recommended background:** Prior knowledge of Excel.

BIOE 396 3 hrs. Senior Design I

Design considerations for biomedical devices emphasizing traditional engineering design concepts. **Prerequisite(s):** Credit or concurrent registration in BIOE 339.

BIOE 397 3 hrs. Senior Design II

Application of principles of engineering and engineering design methodology to the solution of a large scale biomedical engineering design problem. **Prerequisite(s):** BIOE 396.

BIOE 398 1–5 hrs. Undergraduate Research

Research under the close supervision of a faculty member. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

BIOE 402 2 OR 3 hrs. Medical Technology Assessment

Bioentrepreneur course. Assessment of medical technology in the context of commercialization. Objectives, competition, market share, funding, pricing, manufacturing, growth, and intellectual property; many issues unique to biomedical products. 2 undergraduate hrs. 3 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor.

BIOE 405 3 OR 4 hrs. Atomic and Molecular Nanotechnology

Nanoscale structures and phenomena. Simulation methods for nano systems, and molecular assemblies. Molecular building blocks, scanning probe, and atomic force microscopy, quantum mechanical phenomena. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Senior standing or above. **Recommended background:** Engineering or physical science major.

BIOE 406 2 OR 3 hrs. Regulation and Manufacturing Practices in Medical Technology

Bioentrepreneur course. Product requirement definition, FDA, quality system regulation, community Europe, medical device directive, role of management, United States pharmacopoeia, toxicity testing, hazard analysis, risk assessment, import/export. 2 undergraduate hrs. 3 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor.

BIOE 407 3 OR 4 hrs. Pattern Recognition I

The design of automated systems for detection, recognition, classification, and diagnosis. Parametric and nonparametric decision-making techniques. Applications in computerized medical and industrial image and waveform analysis. **Same as** ECE 407. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 220.

BIOE 408 2 OR 3 hrs. Medical Product Development

Bioentrepreneur course. Major stages of medical product development (investigative, feasibility, development, commercialization, maturation and growth), regulatory issues, product performance, failure mode and effect analysis, hazard analysis. 2 undergraduate hrs. 3 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor.

BIOE 415 3 OR 4 hrs. Biomechanics

Use of rigid and deformable body statics and rigid body dynamics to analyze various aspects of the human musculoskeletal system. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 201 and ME 210; and BIOS 430 or BIOS 443 or BIOS 484 or BIOS 485.

BIOE 420 3 OR 4 hrs. Introduction to Field and Waves in Biological Tissues

Principles of electromagnetic and ultrasonic interaction with biological systems; characterization of biological materials; diagnostic and therapeutic uses; and techniques of dosimetry and measurement. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ECE 310.

BIOE 421 3 OR 4 hrs. Biomedical Imaging

Introduction to engineering and scientific principles associated with X-ray, magnetic resonance, ultrasound, computed tomographic, and nuclear imaging. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** MATH 210 and PHYS 142.

BIOE 430 3 OR 4 hrs. Bioinstrumentation and Measurements I

Theory and application of instrumentation used for physiological and medical measurements. Characteristics of physiological variables, signal conditioning devices, and transducers. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** BIOS 100; and ECE 115 or ECE 210 or ECE 225; and BIOE 310 or ECE 310 or ME 312.

BIOE 431 2 hrs. Bioinstrumentation and Measurement Laboratory

Practical experience in the use of biomedical instrumentation for physiological measurements. **Prerequisite(s):** Credit or concurrent registration in BIOE 430.

BIOE 432 3 OR 4 hrs. Bioinstrumentation and Measurements II

Principles of bioinstrumentation for the assessment of physiological function and therapeutic intervention. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** BIOE 430.

BIOE 433 1 hour. Bioinstrumentation and Measurements II Laboratory

Laboratory experiments using instruments to assess physiological function. **Prerequisite(s):** Credit or concurrent registration in BIOE 432.

BIOE 439 4 hrs. Biostatistics II

Statistical treatment of data, model estimation, and inference are treated in a framework of biological experiments and attributes of data generated from such experiments. Credit is not given for BIOE 439 if the student has credit for BSTT 400. Extensive computer use required. **Prerequisite(s):** MATH 210 and CS 108; and consent of the instructor. **Recommended background:** Knowledge of MATLAB.

BIOE 440 3 OR 4 hrs. Biological Signal Analysis

Analysis of signals of biological origin. Transient signals. Stability analysis. Control. Probabilities, stochastic processes. Medical applications. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 210 and senior or graduate standing.

BIOE 450 4 hrs.
Molecular Biophysics of the Cell

Introduction to force, time energies at nanometer scales; Boltzmann distribution; hydrodynamic drag; Brownian motions; DNA, RNA protein structure and function; sedimentation; chemical kinetics; general aspects of flexible polymers.

Same as PHYS 450.

Prerequisite(s): PHYS 245 or the equivalent.

BIOE 452 3 OR 4 hrs.
Biocontrol

Considers the unique characteristics of physiological systems using the framework of linear systems and control theory. Static and dynamic operating characteristics, stability, and the relationship of pathology to control function. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ECE 310; and either BIOS 442 or BIOS 443.

BIOE 455 3 OR 4 hrs.
Introduction to Cell and Tissue Engineering

Foundation of cell and tissue engineering covering cell technology, construct technology, and cell-substrate interactions. Emphasis in emerging trends and technologies in tissue engineering. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 260; and credit or concurrent registration in BIOE 430 or BIOS 443 or BIOS 484 or BIOS 485.

BIOE 456 2 hrs.
Cell and Tissue Engineering Laboratory

Includes polymer scaffold fabrication, microstamping biomolecules, cellular adhesion and proliferation assays, and immo/fluorescent tagging. **Prerequisite(s):** Credit or concurrent registration in BIOE 455; or consent of the instructor.

BIOE 460 3 OR 4 hrs.
Materials in Bioengineering

Analysis and design considerations of problems associated with prostheses and other implanted biomedical devices. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 260; and BIOS 220 or BIOS 222 or BIOS 240 BIOS 286 or BIOS 352.

BIOE 465 3 OR 4 hrs.
Metabolic Engineering

Quantitative descriptions of biochemical networks; modeling, control, and design of metabolic pathways to achieve industrial and medical goals. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** BIOE 310 or ECE 310 or ME 312; or consent of the instructor.

BIOE 470 3 OR 4 hrs.
Bio-Optics

Physical principles and instrumentation relevant to the use of light in biomedical research. Several current and developing clinical applications are explored. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHYS 142.

BIOE 472 3 OR 4 hrs.
Models of the Nervous System

Mathematical models of neural excitation and nerve conduction, stochastic models and simulation of neuronal activity, models of neuron pools and information processing, models of specific neural networks. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): BIOE 310 or ECE 310 or ME 312; and credit or concurrent registration in BIOS 484 or BIOS 485.

BIOE 475 3 OR 4 hrs.
Neural Engineering I: Introduction to Hybrid Neural Systems

Modeling and design of functional neural interfaces for in vivo and in vitro applications, electrodes and molecular coatings, neural prostheses, and bio-potential control of robotics. **Same as** BIOS 475. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** BIOE 472; or consent of the instructor.

BIOE 476 2 hrs.
Neural Engineering I Laboratory

Hands-on experience with computational and experimental models of engineered neural systems, with emphasis on neuro-prostheses and biosensors. Animals used in instruction. **Prerequisite(s):** Credit or concurrent registration in BIOE 475.

BIOE 480 3 OR 4 hrs.
Introduction to Bioinformatics

Computational analysis of genomic sequences and other high throughput data. Sequence alignment, dynamic programming, database search, protein motifs, cDNA expression array, and structural bioinformatics. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** BIOS 100 and CS 201; or consent of the instructor.

BIOE 481 2 hrs.
Bioinformatics Laboratory

How to use bioinformatics tools, including sequence alignment methods such as Blast, Fasta, and Pfam, as well as structural bioinformatics tools, such as Rasmol and CastP. Extensive computer use required. **Prerequisite(s):** Credit or concurrent registration in BIOE 480; and senior standing or above; and consent of the instructor.

BIOE 482 3 OR 4 hrs.
Introduction to Optimization Methods in Bioinformatics

The objectives are to provide the students with a basis for understanding principles of the optimization methods and an insight on how these methods are used in bioinformatics. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** BIOS 100 and CS 201.

BIOE 483 3 OR 4 hrs.
Molecular Modeling in Bioinformatics

Basic structural and dynamics tools in protein structure prediction, structure comparison, function prediction, Monte Carlo and molecular dynamics simulations. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in BIOE 480.

BIOE 494 1–4 hrs.
Special Topics in Bioengineering

Special topics to be arranged. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

Biological Sciences**BIOS 100 5 hrs.**
Biology of Cells and Organisms

Processes of cellular and organismic function: cell structure, respiration, photosynthesis, molecular genetics and development, structure and physiology of plants and animals. Lecture, laboratory, and discussion. Animals used in instruction. This course is intended for science majors. BIOS 100 and BIOS 101 may be taken in any order. Credit is not given for BIOS 104 if the student has credit in BIOS 100 or BIOS 101. **Recommended background:** CHEM 112. *Natural World—With Lab course.*

BIOS 101 5 hrs.
Biology of Populations and Communities

Species concepts, natural selection, phylogeny, models of population growth, transmission genetics, gene frequency, adaptation, interactions among species in a community, biomes and climate, ecosystem processes, and human impacts on the environment. Animals used in instruction. This course is intended for science majors. BIOS 100 and BIOS 101 may be taken in any order. Credit is not given for BIOS 104 if the student has credit in BIOS 100 or BIOS 101. *Natural World—With Lab course.*

BIOS 104 5 hrs.
Life Evolving

Origin and diversity of life; genetics, evolution, ecology, and ecosystems; energy flow; photosynthesis; human anatomy and physiology; development of biological ideas; and biology and human society. Credit is not given for BIOS 104 if the student has credit in BIOS 100 or BIOS 101. Animals may be used in instruction. Intended for non-science majors. *Natural World—With Lab course.*

BIOS 196 1 hour.
Biology Colloquium

A series of specially arranged seminars, small group activities, and field trips in different areas of interest in biological sciences. Satisfactory/Unsatisfactory grading only. May be repeated up to 1 time(s). **Prerequisite(s):** Major in Biological Sciences or Biochemistry.

BIOS 199 1 hour.
Introduction to Research

An introduction to research for students interested in becoming biology majors. Credit is contingent on approval by the research supervisor of a written report that is also submitted to the Biology colloquium faculty advisor. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Concurrent registration in BIOS 196 or approval of the department.

BIOS 220 3 hrs.
Mendelian and Molecular Genetics

Principles of heredity and variation in phage, bacteria, fungi, plants, and animals. Basic molecular genetics, gene regulation, recombination, DNA replication, transcription, translation. Lecture and discussion. No credit may be applied toward the Biological Sciences major unless credit is also obtained for BIOS 221. **Prerequisite(s):** BIOS 100 and BIOS 101 and credit or concurrent registration in CHEM 232.

BIOS 221 3 hrs.
Genetics Laboratory

Experiments and demonstrations of classical and molecular genetics using material from *Drosophila*, corn, rodents, bacteria, fungi, and viruses. Animals used in instruction. **Prerequisite(s):** Credit or concurrent registration in BIOS 220.

BIOS 222 3 hrs.
Cell Biology

Rationale of experiments that led to the current understanding of organelle biogenesis, cell transport, cell signaling, and the relation of cell structure to cell function. Lecture. **Prerequisite(s):** BIOS 100 and CHEM 112 and CHEM 114.

BIOS 223 2 hrs.
Cell Biology Laboratory

Laboratory experience with modern methods in molecular biology and exploration of current research in cell biology. **Prerequisite(s):** Credit or concurrent registration in BIOS 222.

BIOS 230 3 hrs.
Ecology and Evolution

Concepts and models of population growth, species interactions, community ecology, and energy and nutrient flow in ecosystems. Genetic basis of evolutionary change through adaptation, natural selection, and other mechanisms. **Prerequisite(s):** BIOS 101 and CHEM 112 and CHEM 114.

BIOS 236 3 hrs.
Animal Behavior
 Examine the proximate and ultimate causes of animal behavior; neural and hormonal mechanisms; diversity of behavior and their relationship to an organism's ecology and evolution.
Prerequisite(s): BIOS 101.

BIOS 240 3 hrs.
Homeostasis: The Physiology of Plants and Animals
 Basic concepts of physiological mechanisms that contribute to survival of multicellular organisms. Comparison of a variety of organisms. **Prerequisite(s):** BIOS 100 and CHEM 112 and CHEM 114.

BIOS 270 4 hrs.
Animals Without Backbones: Invertebrate Zoology
 Classification and comparative structure, development, ecology and evolution of nonvertebrate animals. Lecture and demonstration. Animals used in instruction. **Prerequisite(s):** One year of biological sciences.

BIOS 272 5 hrs.
Comparative Vertebrate Anatomy and Physiology
 Morphology, function, and evolution of vertebrate organ systems. Lecture and laboratory. Animals used in instruction. **Prerequisite(s):** BIOS 100 and BIOS 101 or the equivalent.

BIOS 286 3 hrs.
The Biology of the Brain
 Survey of basic neurobiology. Brain structure, chemistry, development, and control of behavior (sensation, movement, emotions, memory, cognition, sex). **Prerequisite(s):** BIOS 100 and BIOS 101; or consent of the instructor.

BIOS 294 1–5 hrs.
Special Topics in Biological Sciences
 Selected topics in the Biological Sciences. May be repeated. Students may register for more than one section per term.

BIOS 296 2 hrs.
Directed Instruction
 Leadership opportunity for upper division students wishing to assist with the biology colloquium. Credit is contingent on approval of a written report describing leadership activities and experiences that is submitted to the department. Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 2 hours of credit may be applied toward the undergraduate major in Biological Sciences. **Prerequisite(s):** Approval of the department.

BIOS 299 1 hour.
Honors Biology
 An additional hour of related work for students registered in another course in Biological Sciences. May be repeated. **Prerequisite(s):** Membership in Honors College, or, for superior students, approval of the department; and registration in a Biological Sciences course (except BIOS 391 or BIOS 399) and consent of the instructor. Open only to freshmen, sophomores, and juniors. Restricted to Honors students.

BIOS 313 4 hrs.
Primate Evolution
 Paleontology and systematics of fossil primates, emphasizing the adaptive radiations of the major living groups. **Same as** ANTH 330.

BIOS 320 3 hrs.
Developmental Biology
 Principles governing growth and differentiation from the molecular to the organismic level. **Prerequisite(s):** BIOS 220.

BIOS 321 3 hrs.
Developmental Biology Laboratory
 Laboratory problems in developmental biology. Animals used in instruction. **Prerequisite(s):** Credit or concurrent registration in BIOS 320.

BIOS 322 3 hrs.
Advanced Cell Biology
 Advanced topics in eukaryotic cell biology, with special emphases on structure-function analyses of the nuclear pore, chromosomes, and transcriptional regulation. Extensive computer use required. May not be taken concurrently with BIOS 222. **Prerequisite(s):** BIOS 220 and BIOS 221 and BIOS 222; and CHEM 232 and CHEM 233.

BIOS 325 5 hrs.
Vertebrate Embryology
 Study of the anatomical changes occurring during vertebrate development and their underlying control mechanisms. A comparative approach is taken, examining the similarities and differences in embryonic development between amphibians, birds, and mammals. **Prerequisite(s):** BIOS 100 and BIOS 101.

BIOS 331 3 hrs.
General Ecology Laboratory
 Field and laboratory data collection for hypothesis testing; required field trips to representative plant communities. Animals used in instruction. Required field trips on Saturdays. **Prerequisite(s):** BIOS 101.

BIOS 335 3 hrs.
History of Life
 A macroevolutionary perspective on documenting patterns of evolutionary change and understanding interactions between speciation and extinction in creating patterns of morphologic and taxonomic diversity. **Prerequisite(s):** BIOS 100 and BIOS 101.

BIOS 350 3 hrs.
General Microbiology
 Ultrastructure, genetics, molecular biology, physiology and metabolism of microorganisms; role of microorganisms in food, water, agriculture, biotechnology, infectious diseases, and immunobiology. **Prerequisite(s):** BIOS 100; and credit or concurrent registration in CHEM 130 or CHEM 232. **Recommended background:** BIOS 101.

BIOS 351 2 hrs.
Microbiology Laboratory
 Laboratory experience with pure cultures and sterile techniques; methods of identification of unknown microorganisms; experiments demonstrating principles of microbial genetics, transformation, antibiotic sensitivity, and resistance. **Prerequisite(s):** Credit or concurrent registration in BIOS 350.

BIOS 352 3 hrs.
Introductory Biochemistry
 Structure and function of cellular constituents; enzymology; metabolism of carbohydrates, lipids, amino acids, nucleotides; molecular biology of biosynthesis of proteins and nucleic acids. **Same as** CHEM 352. No credit toward the Biological Sciences major for students completing BIOS 452 and/or BIOS 454. No credit toward the degree in Biochemistry. **Prerequisite(s):** BIOS 100 and CHEM 232.

BIOS 360 4 hrs.
Introduction to Paleontology
 The morphology, ecology, and relationships of fossil organisms. Basic principles of paleontology, including evolution, paleoecology and functional morphology. **Same as** EAES 360. **Prerequisite(s):** EAES 102 or one year of biological sciences.

BIOS 386 2 hrs.
Seminar on Neurobiology
 Reading and discussion of both classic and recent research papers that are important in neurobiology. **Prerequisite(s):** BIOS 286 or the equivalent.

BIOS 391 1 hour.
Independent Study
 Individual study not covered in standard courses under close supervision of a faculty member. Credit is contingent on approval by research supervisor of a written report that is submitted to the department. Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. A maximum of 5 hours of BIOS 391 and/or BIOS 399 may be credited toward the department undergraduate major requirements. **Prerequisite(s):** Minimum of 2.00 grade point average in biological sciences courses and consent of the instructor.

BIOS 399 2 hrs.
Independent Research
 Individual research. Credit is contingent on approval by the research supervisor of a written report that is submitted to the

department. Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. A maximum of 5 hours of BIOS 391 and/or BIOS 399 may be credited toward the department undergraduate major requirements. **Prerequisite(s):** Minimum of 2.00 grade point average in biological sciences courses, approval of the department, and consent of the instructor. **Recommended background:** Junior standing.

BIOS 416 3 OR 4 hrs.
Natural Products
 Biogenetic approach to secondary metabolites. General principles and selected studies of phenolic compounds, terpenes, alkaloids, and other interesting natural products. **Same as** CHEM 456. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One year of organic chemistry.

BIOS 424 4 hrs.
Mammalian Histology
 The microscopic anatomy of tissues and organs in relation to their function. **Prerequisite(s):** BIOS 272 or BIOS 325.

BIOS 429 3 hrs.
Laboratory in Electron Microscopy
 Laboratory instruction in cell preparation and instrument operation in transmission and scanning electron microscopy. Satisfactory/Unsatisfactory grading only. Animals used in instruction. **Prerequisite(s):** Consent of the instructor.

BIOS 430 4 hrs.
Evolution
 Mechanisms of genetic and phenotypic stability and change in populations and species; modes of speciation and macroevolution; trends in evolution. Lecture and discussion. **Prerequisite(s):** BIOS 220.

BIOS 431 3 hrs.
Plant and Animal Interactions
 Ecology of nonsymbiotic relationships of plants and animals, including protection mutualisms, pollination, seed dispersal, animal herbivory and plant defense. **Prerequisite(s):** BIOS 100 and BIOS 101 and any 200- or 300-level course in biological sciences.

BIOS 432 3 hrs.
Restoration Ecology
 Philosophical, historical, and ecological basis for ecological restoration, with emphasis on readings in the primary literature and writing. **Prerequisite(s):** BIOS 230 or the equivalent.

BIOS 433 4 hrs.
Plant Diversity and Conservation
 Focus on seed-plant diversity: morphological features and family identification; major evolutionary process; evolutionary relationships among plant groups; and goals, problems, and progress in the conservation of plant diversity. **Prerequisite(s):** BIOS 230.

BIOS 435 3 hrs.
Plant Evolution
Examines the history of plant life in a rigorous survey of plant genetics, factors that influence diversity of form and function, the astonishing diversity of plant sexual systems, and conservation. **Prerequisite(s):** BIOS 230; and junior standing or above.

BIOS 443 4 hrs.
Animal Physiological Systems
Basic function of renal, respiratory, and digestive systems. Integrative role of endocrine systems. Animals used in instruction. **Prerequisite(s):** Four courses in the Biological Sciences.

BIOS 450 3 hrs.
Advanced Microbiology
Comprehensive analysis of metabolic, ecological, phylogenetic, and cytological diversity among the major groups of eubacteria and archaeobacteria. **Prerequisite(s):** BIOS 350.

BIOS 452 4 hrs.
Biochemistry I
Chemistry of proteins, nucleic acids, carbohydrates, and lipids. **Same as** CHEM 452. **Prerequisite(s):** Credit or concurrent registration in CHEM 234.

BIOS 454 4 hrs.
Biochemistry II
Continues Biological Sciences 452. Carbohydrate and lipid metabolism, electron transport. Metabolism of amino acids, nucleic acids, proteins. Biosynthesis of macromolecules and regulation of macromolecular synthesis. **Same as** CHEM 454. **Prerequisite(s):** BIOS 452 or CHEM 452.

BIOS 457 4 hrs.
General Virology
Nature of viruses, their morphology, chemical composition, assay, host-parasite interactions, and life cycles. **Prerequisite(s):** BIOS 220; and either BIOS 222 or BIOS 350.

BIOS 466 4 hrs.
Principles of Paleontology
Theory and methods of evolutionary paleobiology; includes paleoecology, functional morphology, and major features of organic evolution. **Same as** EAES 466. **Prerequisite(s):** EAES 360 or BIOS 360 or consent of the instructor.

BIOS 475 3 OR 4 hrs.
Neural Engineering I: Introduction to Hybrid Neural Systems
Modeling and design of functional neural interfaces for in vivo and in vitro applications, electrodes and molecular coatings, neural prostheses, and bio-potential control of robotics. **Same as** BIOE 475. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** BIOE 472; or consent of the instructor.

BIOS 483 4 hrs.
Neuroanatomy
Organization of the nervous system, with an emphasis on mammals. **Same as** PSCH 483 and NEUS 483. Animals used in instruction. **Prerequisite(s):** BIOS 272 or BIOS 286 or BIOS 325 or PSCH 262; or consent of the instructor.

BIOS 484 3 hrs.
Neuroscience I
Neuroscience as an integrative discipline. Neuroanatomy of vertebrates, neural development, cellular neurobiology, action potential mechanisms, synaptic transmission, and neuropharmacology. **Same as** PHIL 484 and PSCH 484. **Prerequisite(s):** BIOS 286 or PSCH 262.

BIOS 485 3 hrs.
Neuroscience II
Intergrative neuroscience, continuation of BIOS/PSCH/PHIL 484. Sensory and motor systems; learning, memory, and language. Pathology of nervous systems. Philosophical perspectives, and modeling. **Same as** PHIL 485 and PSCH 485. **Prerequisite(s):** BIOS 484.

BIOS 486 4 hrs.
Animal Behavior and Neuroethology
Neural and behavioral mechanisms of environmental information processing and interaction throughout the animal kingdom; emphasis on invertebrate and lower vertebrates. Laboratory emphasizing individual research projects with a final report, and occasional field trips required. Animals used in instruction. **Prerequisite(s):** One advanced course in zoology and animal physiology.

BIOS 488 3 hrs.
Developmental Neurogenetics
Classical and molecular genetic approaches to the study of the development of the nervous system, concentrating on studies in fruit flies, nematodes, and vertebrates. **Prerequisite(s):** BIOS 220 and either BIOS 225 or BIOS 420.

BIOS 489 3 hrs.
Cellular Neurobiology Laboratory
Recording from and analyzing the activity of nerve cells, neuronal networks, and other electrically excitable tissues. **Prerequisite(s):** BIOS 286 or the equivalent.

BIOS 490 3-4 hrs.
Topics in Ecology and Evolution
In-depth analysis of advanced topics in ecology and evolution, involving reading primary literature, term paper, student presentations, and critical discussion. Credit varies according to topic offered. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Graduate standing or consent of the instructor.

Biomedical and Health Information Sciences

BHIS 405 0-4 hrs.
Medical Sciences and Human Pathophysiology
Introduction of fundamental concepts in pathophysiology. Specific disorders of major organ systems, including etiology, manifestations, diagnostic tests, treatment modalities, pharmacotherapy, and complications. Extensive computer use required. Meets eight weeks of the semester. Students who require a medical terminology component register for 4 hours and participate in both laboratory and lecture-discussion; all others register for 3 hours and attend lecture-discussion only. Taught fully or partially online. Students must have an active UIC netid with valid password, access to a computer, and the Internet.

BHIS 410 3 hrs.
Health Data Structures and Management
Data structures in clinical information systems, including database design and management, networking, and security. Emphasis on "intrapreneurial" skills required to solve organizational information management problems. **Prerequisite(s):** BHIS 460 and BHIS 461 and BHIS 480.

BHIS 460 1 hour.
Introduction to Health Informatics
Introduction to information technology and systems in a healthcare setting. Meets eight weeks of the semester. Taught online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** Credit or concurrent registration in HIM 410 or equivalent experience. Students should demonstrate basic computing skills including knowledge of an office productivity suite (MS Office or other), electronic mail, and Internet browsers. **Recommended background:** IDS 200 or the equivalent; or consent of the instructor.

BHIS 461 2 hrs.
Information Systems for Health Information Management
Advanced topics in information technology and systems in a healthcare setting; collection, analysis, and management of healthcare data; special issues related to the role of health information administrators. Extensive computer use required. **Prerequisite(s):** IDS 200 and credit or concurrent registration in BHIS 460.

BHIS 480 3 hrs.
Management and Business Practices
Principles of management with emphasis on business functions, procedures, and organizational structure as applied to various healthcare settings, including pri-

vate and institutional practice. **Prerequisite(s):** Advanced undergraduate or graduate standing in the Department of Biomedical and Health Information Sciences or consent of the instructor.

BHIS 499 1 hour.
Information Sources in Biomedical and Health Information Sciences
Prepares students to locate, interpret and evaluate pertinent research information sources. Includes discussion on writing literature reviews. Assignments require the use of a computer with Internet access. **Prerequisite(s):** Junior standing or above required; or consent of the instructor.

Biopharmaceutical Sciences

BPS 325 2 hrs.
Drugs and Society
Presents factual basis of drug use and abuse. Provides physiological and sociopsychological underpinnings of drug abuse. Evaluates social policies and regulatory issues surrounding drug abuse. **Same as** PMPR 325. Extensive computer use required. **Prerequisite(s):** Open only to first-year students in the Doctor of Pharmacy program.

BPS 360 1 hour.
Survey of Basic and Clinical Pharmacology I
Designed to provide an introduction to the major classes of therapeutic agents. **Prerequisite(s):** Consent of the instructor. Open only to first-year students in the Doctor of Pharmacy program.

BPS 365 1 hour.
Survey of Receptors and Drug Action
The major classes of receptors and their ligands (agonists and antagonists) that result in pharmacological effects and drug action. **Prerequisite(s):** Open only to first-year students in the Doctor of Pharmacy program.

BPS 380 1-3 hrs.
Undergraduate Research in Biopharmaceutical Sciences
Investigation, under the direction of one or more faculty members, of a problem of limited scope. May be repeated. Students may register in more than one section per term. A maximum of 6 hours of credit is allowed per department. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Minimum cumulative grade point average of 2.50 and consent of the instructor, department head, and Associate dean for student affairs.

BPS 381 1 hour.
Professional Development Seminar I
Weekly seminar series for second professional year pharmacy students. Discusses educational issues related to the second professional year. Students create/

update curriculum vitae; explore various pharmacy career opportunities. Credit is not given for BPS 381 if the student has credit for PMAD 381 or PMMP 381 or PMPR 371. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

BPS 382 1 hour.
Professional Development Seminar II

Weekly seminar series for second professional year pharmacy students. Discusses educational issues related to the second professional year. Students create/update curriculum vitae; explore various pharmacy career opportunities. Credit is not given for BPS 382 if the student has credit for PMAD 382 or PMMP 382. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

BPS 383 1 hour.
Professional Development Seminar III

Weekly seminar series for third professional year pharmacy students. Discusses relevant educational and professional issues. Update CV/resume and portfolio. Explore pharmacy career opportunities with invited guests. Credit is not given for BPS 383 if the student has credit for PMAD 383 or PMMP 383. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

BPS 384 1 hour.
Professional Development Seminar IV

Weekly seminar series for third-year pharmacy students. Discusses with advisees relevant educational and professional issues. Update curriculum vitae or resume and portfolio. Explore pharmacy career opportunities with invited guests. Credit is not given for BPS 384 if the student has credit for PMAD 384 or PMMP 384. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

BPS 385 1–3 hrs.
Special Topics of Current Interest in Biopharmaceutical Sciences

Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for one offering only. **Prerequisite(s):** Consent of the instructor and good academic standing as defined by College of Pharmacy policies.

BPS 390 1–2 hrs.
Special Projects in Biopharmaceutical Sciences

Special projects within the departmental discipline are defined and terminal project goals are achieved through independent study. May be repeated. Students may register in more than one section per term. A maximum of 4 hours of 390 credit is allowed in all departments. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours

of PharmD professional electives. **Prerequisite(s):** Consent of the instructor, department head, and associate dean for student affairs.

BPS 423 2 hrs.
Adverse Drug Reactions

Attention focused on the epidemiology and characterization of adverse reactions. Factors which interplay in adverse reactions to medications are discussed. Reactions characterized in relation to organ systems. **Prerequisite(s):** PHAR 403 and PHAR 404; or consent of the instructor.

BPS 430 2 hrs.
Principles of Toxicology

Examines the toxic effects of drugs and chemicals on organ systems. Lectures emphasize basic principles, effects on specific organ systems, major classes of toxic chemicals, and specialized topics, such as forensic and industrial toxicology. **Same as** PCOL 430. Credit is not given for BPS 430 if student has credit for EOHs 457.

BPS 470 1 hour.
Clinical Pharmacology I

Basic principles of clinical pharmacology/toxicology, including clinical trial design, statistical interpretation, pharmacokinetics, drug interactions (side effects), as well as basic mechanisms involved in the above.

Prerequisite(s): Open only to students with Third-year professional standing in the Doctor of Pharmacy program or with graduate standing.

BPS 471 1 hour.
Clinical Pharmacology II

Basic principles of clinical pharmacology applied to critical analysis of patient case histories in major disease states and FDA requirements. **Prerequisite(s):** BPS 470.

BPS 480 4 hrs.
Application of Science to the Law

Issues affecting the development, accessibility and admissibility of forensic science services by the criminal justice system; problems which may compromise the quality, fairness, and effectiveness of scientific inquiries. **Same as** CLJ 480. **Prerequisite(s):** CLJ 210 and CLJ 260; or graduate standing.

BPS 494 1–3 hrs.
Special Topics of Current Interest in Biopharmaceutical Sciences

Courses offered by faculty or a visiting lecturer on a current topic of selected interest. Topics are available on an experimental basis for one offering only. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Consent of the instructor; good academic standing as defined by UIC policies.

Business Administration

BA 070 3 hrs.
Elementary Mathematics for Business

Rational operations and arithmetic, fundamental operations of algebra, linear equations and polynomials, and graphic with applications to business. Satisfactory/Unsatisfactory grading only. No graduation credit. **Prerequisite(s):** Eligibility determined by performance on the placement test.

BA 090 5 hrs.
Intermediate Algebra for Business

Linear equations, rational expressions, quadratic equations, graphing, exponentials and logarithms, systems of linear equations with applications to business. Satisfactory/Unsatisfactory grading only. No graduation credit. **Prerequisite(s):** Grade of C or better in BA 070 or grade of C or better in MATH 070; or appropriate score on the department placement test.

BA 100 1 hour.
Business Administration Orientation

Orientation to resources available at UIC. Introduction to study strategies and techniques. Orientation to majors and careers in business. Satisfactory/Unsatisfactory grading only. No graduation credit. Should be taken in the first semester after acceptance into the College of Business Administration. **Prerequisite(s):** Admission to the College of Business Administration.

BA 200 3 hrs.
Managerial Communication

Principles of effective business communication applied to practice in writing and speaking, individual and team work; emphasis on written communication. **Prerequisite(s):** ENGL 161 or the equivalent.

BA 289 1–3 hrs.
Business Internship Program

Cooperative education provides students an opportunity to gain practical work experience in their field of study and to test their career choice. Satisfactory/Unsatisfactory grading only. May be repeated. No graduation credit. **Prerequisite(s):** Full-time status, admission into the College of Business Administration, good academic standing, 12 semester hours at UIC, and consent of the director of the Business Career Center.

BA 299 0–18 hrs.
Business Administration Study Abroad

Provides credit for foreign study. Student's proposal for study abroad must have prior approval of CBA Undergraduate Student Services. Final determination of credit is made on the student's completion of the work. May be repeated for a maximum of 48 hours of credit. May be repeated for a maximum of 36 hours per

academic year or for a total of 48 hours, all of which must be earned within one calendar year. **Prerequisite(s):** Requires approval of the Study Abroad Office and College of Business Administration Undergraduate Student Services.

BA 300 3 hrs.
Advanced Managerial Communication

Advanced study of business communication, including practice in the writing of proposals and reports; emphasis on oral presentations and use of multimedia techniques. **Prerequisite(s):** BA 200.

BA 495 3 hrs.
Business Strategy

Strategic management and business policy formulation and implementation. Students will utilize knowledge from all functional areas of business to formulate business strategy and implementation plans through case analysis (may include simulation). Extensive computer use required. **Prerequisite(s):** ACTG 210 and ACTG 211 and BA 200 and ECON 218 and IDS 200 and IDS 270; and IDS 355 and FIN 300 and MGMT 340 and MGMT 350 and MKTG 360; and senior standing or above.

Catholic Studies

CST 120 3 hrs.
Catholic Thought: An Introduction

Introduction to the main topics, interests, and methods of Catholic thought. **Same as** RELS 120. *Past course.*

CST 150 3 hrs.
Catholicism in U.S. History

The Catholic experience in the United States from its colonial origins to the present. **Same as** HIST 150 and RELS 150. *U.S. Society course.*

CST 193 3 hrs.
The Divine Comedy

An in-depth study of the *Divine Comedy*, read in English, against the philosophical and theological background of the Middle Ages. **Same as** ITAL 193 and RELS 193. Taught in English. *Creative Arts course.*

CST 294 3 hrs.
Topics in Catholic History

An investigation of the impact of human migration and cultural pluralism on Catholicism and an analysis of the role of the Catholic Church in group relations. Topics will vary. **Same as** HIST 294 and RELS 294. May be repeated if topics vary.

CST 295 3 hrs.
Topics in Catholic Thought

Critical investigation of a topic or topics central to the development of Catholic thought, carried on by study of its proponents and opponents. Topics will vary. **Same as** RELS 295. May be repeated if topics vary.

CST 394 3 hrs.
Topics in Catholic History and Culture
Exploration of various topics in Catholic history and culture. **Same as HIST 394 and RELS 394.** **Prerequisite(s):** One course in history or Catholic studies; or consent of the instructor.

CST 396 1–3 hrs.
Independent Study
Selected topics for individual study. May be repeated to a maximum of 6 hour(s). Students may register for more than one section per term. **Prerequisite(s):** Sophomore standing or above and consent of the instructor. **Recommended background:** CST 120 or CST 150.

Central and Eastern European Studies

CEES 400 3 OR 4 hrs.
A Survey of Central and Eastern Europe
An interdisciplinary historical and cultural overview of Central and Eastern Europe. 3 undergraduate hrs. 4 graduate hrs.

CEES 411 3 OR 4 hrs.
The City as Cultural Focus
Interdisciplinary study of urban culture with focus on German-speaking countries. **Same as GER 411.** 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). Taught in English. No knowledge of German required. Students who intend to use GER 411 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** For majors and minors in the Department of Germanic Studies only: GER 212 or the equivalent or consent of the instructor.

CEES 418 3 OR 4 hrs.
Topics in German History
Specific topics are announced each term. **Same as HIST 418.** 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of European history, or consent of the instructor.

CEES 430 3 OR 4 hrs.
Classical German Philosophy
Introduction to German philosophy and intellectual history through the critical analysis of major authors and texts. **Same as GER 430.** 3 undergraduate hrs. 4 graduate hrs. Taught in English. Area: literature/culture. **Prerequisite(s):** One 300-level course in Germanic Studies or consent of the instructor.

CEES 433 3 OR 4 hrs.
Topics in Eastern European History
Specific topics are announced each term. **Same as HIST 433.** 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of European history or consent of the instructor.

CEES 435 3 OR 4 hrs.
Topics in Russian History
Specific topics are announced each term. **Same as HIST 435.** 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of European history or consent of the instructor.

CEES 438 3 OR 4 hrs.
The Faust Legend
Discusses Goethe's Faust within the context of European and non-European literatures. Traces the origins, significance, and interpretation of the Faust figure. **Same as GER 438.** 3 undergraduate hrs. 4 graduate hrs. Taught in English. Area: literature/culture.

CEES 439 3 OR 4 hrs.
Gender and Cultural Production
Issues of gender representation and gender politics examined through the use of theoretical texts or through the study of women authors. **Same as GER 439 and GWS 439.** 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) if topics vary. Taught in English. Students who intend to use GER 439 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** GER 212 or consent of the instructor.

Chemical Engineering

CHE 101 3 hrs.
Introduction to Chemical Engineering Concepts
Overview of engineering and chemical principles used in chemical engineering technology. Thermodynamics, transport phenomena, and reaction engineering applied to process and product design. **Prerequisite(s):** Overview of engineering and chemical principles used in chemical engineering technology. Thermodynamics, transport phenomena, and reaction engineering applied to process and product design. **Prerequisite(s):** Credit or concurrent registration in CHEM 112 and credit or concurrent registration in MATH 180.

CHE 201 3 hrs.
Introduction to Thermodynamics
Work and energy; conversion of energy; theory of gases and other states of matter; applications to energy conversion devices. Second law of thermodynamics, entropy, and equilibrium, with applications. **Prerequisite(s):** MATH 181 and PHYS 141.

CHE 210 4 hrs.
Material and Energy Balances
Material and energy balances applied to chemical systems. Introduction to chemical and physical properties. Introduction to the use of computers for chemical process calculations. **Prerequisite(s):** CHE 201 and CS 108.

CHE 301 3 hrs.
Chemical Engineering Thermodynamics
Review of classical engineering thermodynamics. Multicomponent systems and multicomponent phase equilibria. Equilibrium in chemically reacting systems, heterogeneous equilibrium, Gibbs phase rule, and electrochemical processes. **Prerequisite(s):** CHE 201 and credit or concurrent registration in CHEM 342.

CHE 311 3 hrs.
Transport Phenomena I
Momentum transport phenomena in chemical engineering. Fluid statics. Fluid mechanics; laminar and turbulent flow; boundary layers; flow over immersed bodies. **Prerequisite(s):** Credit or concurrent registration in CHE 210.

CHE 312 3 hrs.
Transport Phenomena II
Heat and mass transport phenomena. Heat conduction, convection and radiation. Heat exchanger design. Diffusion. Mass transfer coefficients. **Prerequisite(s):** CHE 311.

CHE 313 3 hrs.
Transport Phenomena III
Mass transfer and phase equilibria. Multistage separations; applications in distillation; extraction; absorption and drying. **Prerequisite(s):** CHE 301.

CHE 321 3 hrs.
Chemical Reaction Engineering
Kinetics of homogeneous single reactions. Ideal reactors: batch, stirred tank and plug flow systems. Conversion and yield in multiple reactions. Design and optimization of reactors. Non-isothermal reactors. **Prerequisite(s):** CHE 210 and CHE 301.

CHE 341 3 hrs.
Chemical Process Control
Analysis and design of chemical processes and control systems. Feedback and feedforward controllers. Stability, tuning, and simulation of P-I-D controllers. Introduction to the control of chemical plants and digital process control. **Prerequisite(s):** MATH 220 and CHE 312 and CHE 313 and CHE 321.

CHE 381 2 hrs.
Chemical Engineering Laboratory I
Heat and momentum transfer operations associated with chemical processes. These include heat exchangers, fluid properties, and fluid flow. Technical report writing, computer calculations. **Prerequisite(s):** CHE 312.

CHE 382 2 hrs.
Chemical Engineering Laboratory II
Heat momentum and mass transfer operations associated with chemical processes; these include distillation columns, reactors, humidifiers, and evaporators. **Prerequisite(s):** CHE 381 and concurrent registration in CHE 313.

CHE 392 1–3 hrs.
Undergraduate Research
Undergraduate research project in any area of Chemical Engineering. Projects may be theoretical, experimental, or literature surveys. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

CHE 396 4 hrs.
Senior Design I
Introduction to modern process design and development, engineering economics, and report writing. Design and cost of equipment relating to materials handling to heat transfer, mass transfer, and reactors. **Prerequisite(s):** CHE 312 and CHE 313 and CHE 321.

CHE 397 3 hrs.
Senior Design II
Application of principles and design methodology of chemical engineering to the design of large-scale chemical processes and plants. A major design project is assigned for solution and presentation by students working in small groups. **Prerequisite(s):** CHE 396.

CHE 410 3 OR 4 hrs.
Transport Phenomena
Continuum theory of momentum, energy, and mass transfer. Viscous behavior of fluids. Laminar and turbulent flow. Thermal conduction and convection, diffusion and coupled operations. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHE 312 or consent of the instructor.

CHE 413 3 OR 4 hrs.
Introduction to Flow in Porous Media
Theoretical modeling of single-phase and multiphase flow in porous media. Darcy's law and relative permeabilities. Oil production and hydrology. Capillary phenomena. Dispersion and miscible displacement. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHE 312 or consent of the instructor.

CHE 421 3 OR 4 hrs.
Combustion Engineering
Combustion chemistry and thermochemistry. Kinetics and mechanism of combustion; ignition and pollutant formation. Detonation and deflagration; premixed and diffusion flames. Surface reaction and droplet combustion. Applications. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHE 301 and CHE 321.

CHE 422 3 OR 4 hrs.
Biochemical Engineering
Enzyme-catalyzed and microbially-mediated processes. Free and immobilized enzymes. Batch and continuous cell cultures. Transport phenomena in microbial systems and fermentation processes. Design of biological reactors. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

CHE 423 3 OR 4 hrs.
Catalytic Reaction Engineering

Catalytic reactions which occur under conditions for which heat and mass transfer cannot be neglected are considered. Includes porosimetry, surface area measurements and catalyst deactivation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHE 321 or consent of the instructor.

CHE 431 3 OR 4 hrs.
Numerical Methods in Chemical Engineering

Introduction to the application of numerical methods to the solution of complex and often nonlinear mathematical problems in chemical engineering. Includes methods for the solution of problems arising in phase and chemical reaction equilibria, chemical kinetics, and transport. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Graduate or advanced undergraduate standing.

CHE 438 3 OR 4 hrs.
Computational Molecular Modeling

Provide students with a fundamental understanding of the methods, capabilities and limitations of molecular simulations. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** CHE 301. **Recommended background:** Engineering/Science.

CHE 440 3 OR 4 hrs.
Non-Newtonian Fluids

Fluid mechanics and transport processes involving non-Newtonian fluids. Purely viscous and viscoelastic behavior. Viscometric functions and rheometry. Heat and mass transfer in non-Newtonian fluids. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHE 410 or consent of the instructor.

CHE 441 3 OR 4 hrs.
Computer Applications in Chemical Engineering

Nonnumerical applications of computers: artificial intelligence and expert systems for chemical engineering design and online diagnosis; data acquisition and control for digital process control; process design calculations. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Senior standing in Chemical Engineering.

CHE 445 3 OR 4 hrs.
Mathematical Methods in Chemical Engineering

Advanced mathematical techniques in chemical engineering. Includes infinite series in thermodynamic perturbation theory; Laplace transforms in process control; chemical diffusion transport theories and differential equations. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 220 or the equivalent.

CHE 450 4 hrs.
Air Pollution Engineering

Environmental aspects of combustion processes, pollutant formation. Control of pollutants and particulates. Air quality con-

trol. Fundamentals of combustion. **Same as** ME 450. **Prerequisite(s):** ME 321 or consent of the instructor.

CHE 456 3 OR 4 hrs.
Fundamentals and Design of Microelectronics Processes

Design and practical aspects of the most advanced state of micro- and nanoelectronics processing with emphasis on thin film deposition, substrate passivation, lithography and etching with thermodynamics, kinetics, reactor design, and optimization. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Graduate standing or consent of the instructor. **Recommended background:** Engineering/Science.

CHE 494 1–4 hrs.
Selected Topics in Chemical Engineering

Systematic study of selected topics in chemical engineering theory and practice. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

CHE 499 0 hrs.
Professional Development Seminar

Students are provided general information about their roles as UIC Chemical Engineering alumni in society and the role of the University in their future careers. Students provide evaluations of their educational experience in the Department of Chemical Engineering. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Open only to seniors; and approval of the department. Must be taken in the student's last semester of study.

Chemistry**CHEM 100 5 hrs.**
Chemistry and Life

Principles of structural and environmental chemistry underlying the phenomenon of life on Earth, discussed in a historical, cultural, and philosophical framework. Includes weekly two-hour laboratory. *Natural World—With Lab course.*

CHEM 101 4 hrs.
Preparatory Chemistry

Emphasis on problem solving. Metric units, dimensional analysis, chemical nomenclature, the mole concept, chemical stoichiometry. For students without entrance credit in high school chemistry or inadequately prepared. **Prerequisite(s):** Adequate performance on the UIC chemistry placement examination.

CHEM 102 4 hrs.
Preparatory Chemistry with Cooperative Intermediate Algebra

Metric units, dimensional analysis, the mole concept, chemical stoichiometry and nomenclature, chemical equilibria. Equivalent to CHEM 101, but with particular

emphasis on the mathematics required for success in the study of chemistry. Not open to students with credit in CHEM 101 or MATH 090. For students without entrance credit in high school chemistry or inadequately prepared. Recommended in place of CHEM 101 for students concurrently taking intermediate algebra. **Prerequisite(s):** Adequate performance in the UIC chemistry placement examination. Must enroll concurrently in MATH 092.

CHEM 112 5 hrs.
General College Chemistry I

Topics in general chemistry, including stoichiometry, periodicity, reaction types, the gaseous state, solution stoichiometry, chemical equilibria, acid-base equilibria, dissolution-precipitation equilibria. Includes a weekly 3-hour laboratory. Credit is not given for CHEM 112 if the student has credit for CHEM 116.

Prerequisite(s): Grade of C or better in CHEM 101 or adequate performance on the UIC chemistry placement examination. Students with credit in a course equivalent to CHEM 101 from another institution must take the UIC chemistry placement examination. *Natural World—With Lab course.*

CHEM 114 5 hrs.
General College Chemistry II

Topics in general chemistry, including phase transitions, thermochemistry, spontaneity/equilibrium, electrochemistry, kinetics, bonding, order/symmetry in condensed phases, coordination compounds, descriptive chemistry. Includes a weekly 3-hour laboratory. Credit is not given for CHEM 114 if the student has credit for CHEM 118.

Prerequisite(s): Grade of C or better in CHEM 112 or the equivalent. Students with an equivalent course from another institution must take the chemistry placement examination. *Natural World—With Lab course.*

CHEM 116 5 hrs.
Honors General Chemistry I

Primarily for students in chemistry, chemical engineering, and physics curricula. First of a two-semester sequence covering the same topics as CHEM 112 in greater depth. Includes a weekly three-hour laboratory. Credit is not given for CHEM 116 if the student has credit for CHEM 112. **Prerequisite(s):** Superior performance on the UIC chemistry placement examination. *Natural World—With Lab course.*

CHEM 118 5 hrs.
Honors General Chemistry II

Primarily for students in chemistry, chemical engineering, and physics curricula. Second of a two-semester sequence covering the same topics as CHEM 114 in greater depth. Includes a weekly three-hour laboratory. Credit is not given for CHEM 118 if the student has credit for CHEM 114. **Prerequisite(s):** Grade of C or better in CHEM 116. *Natural World—With Lab course.*

CHEM 130 5 hrs.
Survey of Organic and Biochemistry

Chemistry of classes of carbon compounds relevant to life sciences, and an introduction to the structure and metabolism of proteins, nucleic acids, lipids, and carbohydrates. **Prerequisite(s):** Grade of C or better in CHEM 112 or the equivalent. *Natural World—With Lab course.*

CHEM 201 1 hour.
Elements of Glass Blowing

Demonstrations and practice in glass blowing and the construction of simple laboratory equipment. **Prerequisite(s):** Senior standing in chemistry and consent of the instructor.

CHEM 222 4 hrs.
Analytical Chemistry

Theory and application of chemical equilibria and instrumentation in quantitative analysis. Includes two weekly three-hour laboratories. **Prerequisite(s):** Grade of C or better in CHEM 114 or grade of C or better in CHEM 118 or the equivalent.

CHEM 232 4 hrs.
Organic Chemistry I

First semester of a one-year sequence. Structure, reactivity, and synthesis of organic molecules. **Prerequisite(s):** Grade of C or better in CHEM 114 or grade of C or better in CHEM 118. **Recommended background:** Concurrent registration in CHEM 233.

CHEM 233 1 hour.
Organic Chemistry Laboratory I

Introductory organic chemistry laboratory. Basic organic techniques (distillation, crystallization), reactions (esterification, oxidation, addition, substitution, elimination), instruments (gas and liquid chromatography). **Prerequisite(s):** Credit or concurrent registration in CHEM 232.

CHEM 234 4 hrs.
Organic Chemistry II

Continuation of CHEM 232. **Prerequisite(s):** Grade of C or better in CHEM 232.

CHEM 305 3 hrs.
Environmental Chemistry

The chemistry of the environment and the consequences of pollution brought about by natural and synthetic materials and modern energy usage. **Prerequisite(s):** CHEM 234.

CHEM 314 4 hrs.
Inorganic Chemistry

Chemistry of the main-group elements, coordination chemistry and the transition elements, bioinorganic chemistry. Includes a weekly laboratory. **Prerequisite(s):** Grade of C or better in CHEM 232 and grade of C or better in CHEM 233.

CHEM 333 3 hrs.
Advanced Synthetic Laboratory
 Advanced organic chemistry laboratory. Synthesis, stereochemistry, spectrometry (IR, NMR), organic analytical chemistry (TLC, HPLC), microscale techniques. Design of multistep synthesis and alchemistic studies. Previously listed as CHEM 235. **Prerequisite(s):** Grade of C or better in CHEM 233 and credit or concurrent registration in CHEM 234.

CHEM 340 3 hrs.
Physical Chemistry for Biochemists I
 Thermodynamics of gases, solutions, reaction equilibria, and phase transitions. Credit is not given for CHEM 340 if the student has credit for CHEM 342. **Prerequisite(s):** Grade of C or better in MATH 181 and grade of C or better in CHEM 114; and grade of C or better in PHYS 107 or grade of C or better in PHYS 142.

CHEM 342 3 hrs.
Physical Chemistry I
 Thermodynamics of gases, solutions, reaction equilibria, and phase transitions. Credit is not given for CHEM 342 if the student has credit for CHEM 340. **Prerequisite(s):** Grade of C or better in MATH 181; and grade of C or better in PHYS 142; C or better in or concurrent registration in MATH 210.

CHEM 343 3 hrs.
Physical Chemistry Laboratory
 Experiments demonstrating principles of thermodynamics, reaction kinetics, spectroscopy, and quantum mechanics in chemical systems using modern instrumentation and methods of data analysis. **Prerequisite(s):** Grade of C or better in CHEM 340 or grade of C or better in CHEM 342.

CHEM 344 3 hrs.
Physical Chemistry for Biochemists II
 Introduction to quantum mechanics and spectroscopy with applications of principles of physical chemistry to biochemical systems and macromolecules. Intended as a substitute for Chemistry 346. Credit is not given for CHEM 344 if the student has credit for CHEM 346. **Prerequisite(s):** Grade of C or better in CHEM 340 or grade of C or better in CHEM 342.

CHEM 346 3 hrs.
Physical Chemistry II
 Kinetic and molecular theory of gases; introduction to the principles of quantum mechanics with application to model systems, multielectron atoms, diatomic molecules, and bonding. Credit is not given for CHEM 346 if the student has credit for CHEM 344. **Prerequisite(s):** Grade of C or better in CHEM 342 and grade of C or better in MATH 210.

CHEM 352 3 hrs.
Introductory Biochemistry
 Structure and function of cellular constituents; enzymology; metabolism of carbohydrates, lipids, amino acids, nucleotides; molecular biology of biosynthesis of proteins and nucleic acids. **Same as** BIOS 352. No credit toward the Biological Sciences major for students completing BIOS 452 and/or BIOS 454. No credit toward the degree in Biochemistry. **Prerequisite(s):** BIOS 100 and CHEM 232.

CHEM 402 2 hrs.
Chemical Information Systems
 Introduction to chemical information, including the use of databases for searching chemical information and the use of molecular modeling and related computational systems to determine calculated properties of chemical substances. Previously listed as CHEM 302. **Prerequisite(s):** Grade of C or better in CHEM 234 or consent of the instructor.

CHEM 414 2 OR 3 hrs.
Advanced Inorganic Chemistry
 Introduction to the principles of inorganic chemistry. Structural and descriptive chemistry of the main-group elements. 2 undergraduate hrs. 3 graduate hrs. **Prerequisite(s):** Grade of C or better in CHEM 314; and grade of C or better in CHEM 340 or grade of C or better in CHEM 342; or consent of the instructor.

CHEM 415 0–4 hrs.
Inorganic Chemistry Laboratory
 Advanced inorganic chemistry laboratory. Preparative methods, Schlenk techniques, dry box, Fourier-transform infrared and UV-visible spectroscopy, crystal growth. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in CHEM 314.

CHEM 416 3 OR 4 hrs.
Inorganic Chemistry II
 Structural and descriptive chemistry of the transition elements. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHEM 414.

CHEM 421 4 hrs.
Instrumental Analysis
 A survey of contemporary instrumentation for chemical analysis. Emphasis on fundamentals of instrumental methods with actual experience on typical equipment. Includes two weekly three-hour laboratories. **Prerequisite(s):** Grade of C or better in CHEM 222; and grade of C or better in CHEM 340 or grade of C or better in CHEM 342.

CHEM 432 2 OR 3 hrs.
Advanced Organic Chemistry
 Rigorous treatment of the principles upon which modern organic chemistry is developed. 2 undergraduate hrs. 3 graduate hrs. **Prerequisite(s):** Grade of C or better in CHEM 333; and grade of C or better in CHEM 340 or grade of C or better in CHEM 342.

CHEM 444 2 OR 3 hrs.
Advanced Physical Chemistry
 Application of quantum mechanics to molecular spectroscopy, statistical mechanics, and activated complex theory. 2 undergraduate hrs. 3 graduate hrs. **Prerequisite(s):** Grade of C or better in CHEM 346.

CHEM 448 3 OR 4 hrs.
Statistical Thermodynamics
 Introduction to statistical mechanics, partition functions, chemical equilibrium, ensembles, fluctuations, real gases, Einstein and Debye models of solids, magnetic materials, electrolytes, introduction to liquids. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CHEM 346.

CHEM 452 4 hrs.
Biochemistry I
 Chemistry of proteins, nucleic acids, carbohydrates, and lipids. **Same as** BIOS 452. **Prerequisite(s):** Credit or concurrent registration in CHEM 234.

CHEM 454 4 hrs.
Biochemistry II
 Continues Chemistry 452. Carbohydrate and lipid metabolism, electron transport. Metabolism of amino acids, nucleic acids, proteins. Biosynthesis of macromolecules and regulation of macromolecular synthesis. **Same as** BIOS 454. **Prerequisite(s):** BIOS 452 or CHEM 452.

CHEM 455 3 hrs.
Biochemistry Laboratory
 Introduction to modern biochemistry and molecular biology research. Includes recombinant DNA techniques, protein purification, site-directed mutagenesis, polymerase chain reaction, enzyme kinetics, protein structure data analysis, and molecular graphics. **Prerequisite(s):** CHEM 222 and CHEM 452.

CHEM 456 3 OR 4 hrs.
Natural Products
 Biogenetic approach to secondary metabolites. General principles and selected studies of phenolic compounds, terpenes, alkaloids, and other interesting natural products. **Same as** BIOS 416. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One year of organic chemistry.

CHEM 470 6 hrs.
Educational Practice with Seminar I
 The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

CHEM 471 6 hrs.
Educational Practice with Seminar II
 The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in CHEM 470, and approval of the department.

CHEM 472 2 OR 3 hrs.
Teaching Methods in Chemistry
 A course in the methods of teaching high school chemistry, including the integration of technology. 2 undergraduate hrs. 3 graduate hrs. Extensive computer use required. **Prerequisite(s):** 24 semester hours of undergraduate chemistry, including two semesters of laboratory chemistry. **Recommended background:** ED 210.

CHEM 474 1 hour.
Teaching Chemistry in High Schools
 Modern ways to help beginning learners construct in their own minds an understanding of scientific concepts and scientific method. Emphasis on the concepts of chemistry. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Approval of the department.

CHEM 488 1 hour.
Cooperative Chemistry Practice
 Off-campus participation in a governmental or industrial training program. Credit is contingent on the submission of a final report. Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492, and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. **Prerequisite(s):** Concurrent registration in LAS 289 or consent of the instructor.

CHEM 492 1–2 hrs.
Independent Study
 Individual study under supervision of a faculty member in areas not covered in standard courses. Credit is contingent on the submission of a final report. Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492 and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. **Prerequisite(s):** 2.50 grade point average in science courses and consent of the instructor.

CHEM 494 1–4 hrs.
Special Topics in Chemistry
 Course content is announced prior to each term in which the course is given. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

CHEM 499 3 hrs.
Supervised Research
Individual research performed under supervision of a faculty member. Credit is contingent on the submission of a final report. Research experience is strongly encouraged for career students. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 6 hrs. A maximum of 6 hours of CHEM 488, CHEM 492, and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. **Prerequisite(s):** Junior standing or above, approval of the department, consent of the instructor, and a grade point average of 2.50 in science courses; or graduate standing. **Recommended background:** Credit in CHEM 333 or CHEM 314.

Chinese

CHIN 101 4 hrs.
Elementary Chinese I
Basic grammar; sentence patterns; vocabulary study; reading and writing with Chinese characters; simple oral practice. Four additional half hours each week in the language laboratory.

CHIN 102 4 hrs.
Elementary Chinese II
Continuation of Chinese 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** CHIN 101 or the equivalent.

CHIN 103 4 hrs.
Intermediate Chinese I
Advanced grammar; sentence patterns; vocabulary study; reading and writing with Chinese characters; conversation and dialogues. Four additional half hours each week in the language laboratory. **Prerequisite(s):** CHIN 102 or the equivalent.

CHIN 104 4 hrs.
Intermediate Chinese II
Continuation of Chinese 103. Four additional half hours each week in the language laboratory. **Prerequisite(s):** CHIN 103 or the equivalent.

CHIN 111 4 hrs.
Chinese for Students from Chinese Background I
Principal emphasis is on writing and reading for students who have some knowledge of Mandarin or other Chinese dialect. Credit is not given for CHIN 111 if student has credit in CHIN 101 or CHIN 102. Requires two additional hours each week in the language laboratory. **Prerequisite(s):** Appropriate score on the department placement test. **Recommended background:** Familiarity with a Chinese dialect (speaking and listening).

CHIN 112 4 hrs.
Chinese for Students from Chinese Background II
Principal emphasis is on writing and reading. For students who have some knowledge of Mandarin or other Chinese dia-

lect. No credit given for CHIN 112 if the student has credit in CHIN 103 or CHIN 104. Requires two additional hours each week in the language laboratory. **Prerequisite(s):** Grade of C or better in CHIN 111; or appropriate score on the department placement test. **Recommended background:** Familiarity with a Chinese dialect (speaking and listening).

CHIN 196 1-4 hrs.
Independent Study
Individual study under faculty direction for qualified students with special interests and needs. May be repeated to a maximum of 8 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

CHIN 296 1-4 hrs.
Independent Study
Individual study under faculty direction for qualified students at the intermediate level who have special interests and needs. May be repeated to a maximum of 8 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

Civil and Materials Engineering

CME 201 3 hrs.
Statics
Analysis of forces, equilibrium of two- and three-dimensional structures, frames, and machines. Friction, centroids, virtual work, and energy. **Prerequisite(s):** MATH 181 and PHYS 141.

CME 203 3 hrs.
Strength of Materials
Relationships between the stresses and strains within a deformable body. Axially loaded members, torsion, and the bending of bars. Stress transformation equations. Column theory. **Prerequisite(s):** CME 201 and MATH 210.

CME 205 3 hrs.
Structural Analysis I
Analysis of trusses, beams, and frames. Classical methods and analysis with microcomputers. Displacements, shear and bending moments, influence lines. **Prerequisite(s):** CME 203.

CME 211 3 hrs.
Fluid Mechanics and Hydraulics
Covers the basic fluid mechanics topics of statics and kinematics, with emphasis on civil engineering aspects of open channel hydraulics and pipe flow. **Prerequisite(s):** CME 201.

CME 215 3 hrs.
Hydraulics and Hydrology
Hydraulics of pipe flow, open channel flow, and hydraulic machinery. Ground water and surface water hydrology. **Prerequisite(s):** ME 211.

CME 216 3 hrs.
Introduction to Environmental Engineering
Environmental engineering and design for water and waste prob-

lems. Interactive effects of man-made projects on resources and the environment. **Prerequisite(s):** CHEM 112; and credit or concurrent registration in CME 211.

CME 260 3 hrs.
Properties of Materials
Introduction to the relationships between composition and microstructure; correlation with physical and mechanical behavior of metals, ceramics, and polymers. Manufacturing methods. Service performance. Materials selection. Credit is not given for CME 260 if the student has credit for CME 261. **Prerequisite(s):** CHEM 112 and MATH 181 and PHYS 141.

CME 261 2 hrs.
Materials for Manufacturing
Introductory-level course in materials engineering to familiarize students with relationships between processing, structure, and properties of materials used to manufacture devices. **Same as** ME 261. Credit is not given for CME 261/ME 261 if the student has credit for CME 260. **Prerequisite(s):** CHEM 112, MATH 181, and PHYS 141.

CME 300 2 hrs.
Composition and Properties of Concrete
Properties and types of cements and aggregates, hydration, mix design, properties of fresh and hardened concrete. **Prerequisite(s):** Credit or concurrent registration in CME 203.

CME 301 3 hrs.
Behavior and Design of Metal Structures
Design of metal structures, behavior of members and their connections, theoretical, experimental, and practical basis for proportioning members. **Prerequisite(s):** CME 205.

CME 302 3 hrs.
Transportation Engineering
Fundamentals of transportation engineering. Design, operations and planning of transportation systems of various technologies, emphasizing road and public transit. Extensive computer use required. Field trips and computer laboratory required. **Prerequisite(s):** ME 210; and CS 107 or CS 108.

CME 310 3 hrs.
Design of Reinforced Concrete Structures
Analysis and design of reinforced concrete structural elements: beams, slabs, columns, and foundations. Use of current ACI 318 building code. **Prerequisite(s):** CME 205 and credit or concurrent registration in CME 300.

CME 311 3 hrs.
Water Resources Engineering
Groundwater hydrogeology and transport; surface water transport and modeling from an engineering perspective. Laboratory covers ground and surface water transport and pump hydraulics. Extensive computer use required. **Prerequisite(s):** CME 211.

CME 315 4 hrs.
Soil Mechanics and Laboratory
Soil formation, phase relationships, index properties and soil classification, soil composition, soil compaction, water in soils, stresses in soils, consolidation, shear strength, soils laboratory. **Prerequisite(s):** CME 203 and CME 211.

CME 359 3 hrs.
Mechanical Vibrations
Free and forced vibrations of damped linear single and multiple degree of freedom systems. Approximate methods, instrumentation, and applications. **Same as** ME 308. **Prerequisite(s):** ME 210 and MATH 220.

CME 392 1-3 hrs.
Undergraduate Research
Research and in-depth study of a subject of interest under the close supervision of a faculty member. A report is required. **Prerequisite(s):** Senior standing.

CME 394 1-3 hrs.
Undergraduate Seminar
Students conduct an in-depth study of areas of engineering of special interest to them which will be presented to the class in a seminar format. **Prerequisite(s):** Senior standing.

CME 396 3 hrs.
Senior Design I
Introduction to design process and methodologies. Aspects of deterministic and probabilistic design. Optimization theory and methods in design. Preparation of senior design projects. Students are required to take Fundamentals of Engineering Examination (FE exam) before graduation. **Prerequisite(s):** Senior standing.

CME 397 3 hrs.
Senior Design II
Application of principles of engineering and design methods to the solution of a large-scale design program. Communicating design solutions through verbal and written media. **Prerequisite(s):** CME 396.

CME 400 3 OR 4 hrs.
Advanced Design of Reinforced Concrete Structures
Design of reinforced concrete building structures, including design for lateral loads due to wind, structural systems for reinforced concrete buildings, shear walls, and design for seismic forces. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 310 or the equivalent.

CME 401 3 OR 4 hrs.
Advanced Design of Metal Structures
Plate girders; unsymmetrical bending; torsion of thin-walled structures; lateral-torsional instability; composite construction. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 301.

CME 402 3 OR 4 hrs.
Geometric Design of Highway Facilities
 Elements of geometric design. Driver, vehicle, and roadway system characteristics. Horizontal and vertical alignment design. Intersection design and operation. Capacity and level of service. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 302.

CME 403 3 OR 4 hrs.
Hydraulic Design
 Groundwater hydraulics, movement, recharge, and well design; migration and drainage; design of dams, spillways, and turbines; wave and coastal engineering design. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 311.

CME 405 3–4 hrs.
Foundation Analysis and Design
 Site characterization; analysis and design of shallow foundations, deep foundations, and earth retaining structures; foundations on difficult soils; effects of construction; instrumentation and monitoring. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 315.

CME 406 3 OR 4 hrs.
Bridge Design
 Theory and design procedures related to the analysis and design of modern bridges. Using the AASHTO Code, includes concrete and steel structures, construction practices, and procedures. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 301 and CME 310.

CME 407 3 OR 4 hrs.
Soil and Site Improvement Methods
 Compaction, preloading, vertical drains, grouting, admixture stabilization, thermal stabilization, soil reinforcement, geosynthetics; construction of embankments on soft clay, embankments on mechanically stabilized earth walls, hydraulic barriers; case studies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 315.

CME 408 3 OR 4 hrs.
Traffic Engineering and Design
 Highway traffic control with an emphasis on highway capacity analysis and traffic signal design. Queuing theory, traffic flow theory, corridor management, and traffic safety. 3 Undergraduate hrs. 4 Graduate hrs. Extensive computer use required. Fieldwork required. **Prerequisite(s):** CME 302 or consent of the instructor.

CME 409 3 OR 4 hrs.
Structural Analysis II
 Approximate analysis of structures, including trusses and multistory frames. Influence lines, cables, and arches. Principles of limit analysis for structures and structural elements. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 205 or consent of the instructor.

CME 410 3 OR 4 hrs.
Design of Prestressed Concrete Structures
 Principles of prestressed concrete. Analysis and design of statically determinate prestressed concrete members. Introduction to design and detailing of connections. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 310.

CME 411 3 hrs.
Chemistry for Environmental Professionals
 Introductory atmospheric chemistry, aspects of air pollution, chemistry related to natural water and water treatment; priority organic pollutants and heavy metals. **Same as** EOHS 440. **Prerequisite(s):** One year of college chemistry.

CME 415 3 OR 4 hrs.
Environmental Geotechnology
 Environmental laws and regulations, sources and types of waste materials, waste materials in geotechnical engineering applications, geotechnical management of municipal, industrial, mine, and nuclear wastes. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 315.

CME 419 3 hrs.
Air Quality Management I
 Sources, control, dispersion, and effects upon receptors of air pollution: health and other adverse effects, meteorology and dispersion estimation, photochemistry, aerosol characterization. **Same as** EOHS 431. **Prerequisite(s):** EOHS 405 or CME 216 or consent of instructor.

CME 420 0–4 hrs.
Water and Wastewater Analysis Laboratory
 Laboratory class for environmental engineering. Analysis of water, wastewater and soil for nutrients, pollutants, physical parameters and biological parameters. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 216; or graduate standing.

CME 421 3 OR 4 hrs.
Water Treatment Design
 Water quality control systems. Physical-chemical unit processes applied to systems designed for treatment of municipal and industrial waters. 3 undergraduate hrs. 4 graduate hrs. Field trip required at nominal fee. **Prerequisite(s):** CME 216.

CME 422 3 OR 4 hrs.
Wastewater Treatment Design
 Processes involved in the biological treatment of wastewater. Aerobic and anaerobic treatment, sludge stabilization, and nutrient removal. 3 undergraduate hrs. 4 graduate hrs. Field trip required. **Prerequisite(s):** CME 216 or the equivalent.

CME 423 3 hrs.
Management of Solid and Hazardous Wastes
 Management of solid and hazardous waste, including radioactive waste: landfills, incineration, recycling, composting, source

reduction, groundwater and air pollution impacts, control, regulations, siting, health impacts. **Same as** EOHS 472 and GEOG 444.

CME 425 3 OR 4 hrs.
Environmental Remediation Engineering
 Sources of contamination, regulations, site characterization, impact assessment, waste disposal and containment options, waste treatment options, case studies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 315.

CME 427 3 OR 4 hrs.
Engineering Hydrology
 Processes, techniques, and concepts in hydrology of interest to the engineer: precipitation, interception, evaporation, groundwater, unit hydrographs, flood routing, and statistics. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 215.

CME 430 3 OR 4 hrs.
Theory of Elasticity I
 The boundary value problems of linear elasticity. Uniqueness of solution. Reduction to two dimensions: the plane problems, torsion, bending. Polar coordinates, and general orthogonal coordinates. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 204 and MATH 481 or the equivalents.

CME 431 3 OR 4 hrs.
Introduction to Continuum Mechanics
 Vectors and tensors, stress, principal stresses and principal axes, deformation, compatibility conditions, constitutive equations, isotropy and mechanical properties of fluids and solids. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 203 and CME 211; or CME 203 and ME 211.

CME 432 3 OR 4 hrs.
Energy Methods in Mechanics
 Variational theorems of elasticity. Applications to establish approximate systems and their solution. Beams (including shear deformation). Introduction to instability theory. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 205.

CME 433 3 OR 4 hrs.
Fracture Mechanics and Failure Analysis I
 Classical theory of strength of materials. Fracture mechanisms maps. Continuum damage mechanics. Introduction to fracture mechanics. Singular problems of elasticity. Stress intensity. Energy release rates. Irwin-Orowan, Barenblatt-Dugdale theories. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 430.

CME 434 3 OR 4 hrs.
Finite Element Analysis I
 Establishment of basic finite element, matrix relations for one-dimensional heat conduction problems: Truss, beam, and frame structural systems. Solution methods of the resulting equa-

tions. Introduction to two-dimensional analysis. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 205 or ME 401 and CS 108.

CME 435 3 OR 4 hrs.
Theory of Vibrations I
 Analytical and numerical treatment of linear, discrete systems. Nonlinear discrete systems. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 200 or the equivalent and MATH 220.

CME 450 3 OR 4 hrs.
Probability and Reliability in Structural Design
 Maximum uncertainty principle and probability distributions of random variables. Distributions of extremes and their applications. Statistics of failure. The weakest link theory. Time to failure. Structural reliability. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

CME 453 0–4 hrs.
Experimental Stress Analysis
 Structural similitude and dimensional analysis. Strain measurement techniques. Introduction to photoelasticity. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 430.

CME 454 3 OR 4 hrs.
Structural Analysis and Design of Tall Buildings
 State-of-the-art introduction to structural analysis and design of tall buildings. Load impact on different structural systems. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 401 or CME 409 or the equivalent, or consent of the instructor. **Recommended background:** Major structural analysis and design courses.

CME 460 4 hrs.
Crystallography and X-Ray Diffraction
 Fundamentals of crystallography. Theory of X-ray diffraction, experimental methods and applications. **Prerequisite(s):** CME 260.

CME 470 4 hrs.
Physical and Mechanical Properties of Materials
 Basic metallurgical phenomena; kinetics and phase stability; diffusion and transformation rates. Mechanical properties of materials; creep; fatigue and fracture. **Prerequisite(s):** CME 260.

CME 471 0–4 hrs.
Thermodynamics of Materials
 Application of chemical and thermodynamic principles to processing and characterization of materials. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 260.

CME 480 4 hrs.
Welding Metallurgy
 Metallurgy of metals joining processes. Selection of processes and design of products manufactured by joining processes. **Prerequisite(s):** CME 260.

CME 493 1–3 hrs.**Seminar**

Topics of mutual interest to a faculty and a group of students. Offered as announced in the *Schedule of Classes*.

CME 494 1–4 hrs.**Special Topics in Civil Engineering, Mechanics, and Materials**

Subject matter varies from section to section and from semester to semester, depending on the specialties of the instructor. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

CME 496 1–4 hrs.**Special Problems**

Special problems or reading by special arrangement with a faculty member. **Prerequisite(s):** Consent of the instructor.

Classics**CL 100 3 hrs.****Greek Civilization**

An introduction to the life, society, and culture of the ancient Greeks. All readings are in English. *Creative Arts, and Past course.*

CL 101 3 hrs.**Roman Civilization**

An introduction to the life, society, and culture of the ancient Romans. All readings are in English. *Past course.*

CL 102 3 hrs.**Introduction to Classical Literature**

The main literary forms of Classical Antiquity: epic, tragedy, comedy, the philosophical dialogue, history. All readings are in English. *Creative Arts, and Past course.*

CL 103 3 hrs.**Introduction to Classical and Mediterranean Archaeology**

Contributions of archaeological excavations to the study of ancient Greece, Rome, Egypt, and the Near East; architecture, painting, and sculpture in their social and historical contexts. All readings are in English. *Creative Arts, and Past course.*

CL 104 3 hrs.**Mediterranean Traditions: Family, Society, and the Divine**

Designed as an introduction to the varieties of cultural, social, and religious traditions that collectively constitute Western civilization's foundations. *Past, and World Cultures course.*

CL 120 3 hrs.**Introduction to Ancient Philosophy**

Introduction to issues and methods of philosophy through engagement with classic Greek and Roman texts (read in translation). **Same as** PHIL 120. *Individual and Society, and Past course.*

CL 124 3 hrs.**Hebrew Bible**

A study of the Five Books of Moses (a.k.a. Torah or Pentateuch) within the contexts of the ancient Near East and biblical literature. **Same as** JST 124 and RELS 124. Taught in English. *Past course.*

CL 201 3 hrs.**Classical Etymology in the Life Sciences**

The structure and formation of technical terms used in the health sciences, based on roots and elements from Greek and Latin. **Same as** LING 201. **Prerequisite(s):** Any 100-level biological sciences sequence.

CL 202 3 hrs.**The Ancient World: Greece**

Greece from the Mycenaean through the Hellenistic periods; political, social, economic, and religious life of the Greek city-state and the Hellenistic kingdoms. **Same as** HIST 202. *Past course.*

CL 203 3 hrs.**The Ancient World: Rome**

Rome from its origins to the end of the Roman Empire; emphasis on transformation of Rome from city-state to world empire, with attention to social, cultural, and economic background. **Same as** HIST 203. *Past course.*

CL 204 3 hrs.**Greek Art and Archaeology**

Contributions of archaeological excavations to the study of ancient Greece, 600 BC to 31 BC. Architecture, sculpture, and painting in their social and historical contexts. **Same as** AH 204 and HIST 204. Credit is not given for CL 204 if the student has credit in CL 215. Taught in English. *Creative Arts, and Past course.*

CL 205 3 hrs.**Roman Art and Archaeology**

Contributions of archaeological excavations to the study of ancient Rome and her empire 1000 BC–400 AD. Architecture, sculpture and painting in their social and historical contexts. **Same as** AH 205 and HIST 205. *Creative Arts, and Past course.*

CL 208 3 hrs.**Greek Mythology**

Intensive study of the gods and heroic sagas of the Greeks through original sources in translation. All readings are in English. **Prerequisite(s):** CL 100 or CL 102 or CL 103 or the equivalent. *Individual and Society, and Past course.*

CL 211 3 hrs.**Gender and Sexual Orientation in Greek and Roman Literature**

Ancient perceptions of gender roles and sexual orientation as they appear in the major authors of Greece and Rome. **Same as** GWS 211. **Prerequisite(s):** Sophomore standing or above. **Recommended background:** CL 102.

CL 215 3 hrs.**Greek Art in Greece**

Historical, social, and religious background of Greek art. The course will be problem oriented. Questions will focus on the relationship between society, art, and religion. Taught in Greece, most museums in Athens area will be visited. Taught in English. Taught through Study Abroad. Credit is not given for CL 215 in the student has credit in CL 204. **Prerequisite(s):** Approval of the department.

CL 216 3 hrs.**Sacred Landscapes**

Study of Greek religion with on-site visits to the major sanctuaries of Greece. Emphasis will be placed on the religious origins of drama and the establishment of Athenian cult. Taught in English. Taught through Study Abroad. **Prerequisite(s):** Approval of the department.

CL 220 3 hrs.**Ancient Philosophy I: Plato and His Predecessors**

Introduction to Plato and his predecessors in the ancient period. **Same as** PHIL 220. It is recommended that PHIL 220/CL 220 and PHIL 221/CL 221 be taken as a sequence in successive terms. **Prerequisite(s):** One course in philosophy or consent of the instructor.

CL 221 3 hrs.**Ancient Philosophy II: Aristotle and His Successors**

Introduction to Aristotle and his successors in the ancient period. **Same as** PHIL 221. It is recommended that PHIL 220/CL 220 and PHIL 221/CL 221 be taken as a sequence in successive terms. **Prerequisite(s):** One course in philosophy or consent of the instructor.

CL 225 3 hrs.**Topics in Muslim-Jewish Relations**

Muslim-Jewish interactions from the rise of Islam until contemporary times, the relationship between Biblical and Quranic materials, the Jewish and Islamic interpretive tradition, and the legal systems of the two religious traditions. **Same as** JST 225 and RELS 225.

CL 235 3 hrs.**Introduction to Jewish Thought I**

Introduces students to the fundamental Jewish texts, theology, and thought of the Rabbinic period (100 CE–900 CE). Topics include: ethics, authority, sexuality, exegesis, and law. **Same as** JST 235 and RELS 235. **Prerequisite(s):** Sophomore standing or above.

CL 242 3 hrs.**The History of Jewish Biblical Interpretation**

Jewish interpretation of the Hebrew bible. A survey of the span of Jewish history and the wide range of cultural contexts that have impacted the understanding of the Torah. **Same as** JST 242 and RELS 242. *Past course.*

CL 250 3 hrs.**Greek and Roman Epic Poetry**

The epic poems of Homer, Apollonius of Rhodes, Vergil, and others in the Greco-Roman tradition. All readings are in English. **Prerequisite(s):** CL 100 or CL 101 or CL 102 or CL 103 or the equivalent. *Creative Arts, and Past course.*

CL 251 3 hrs.**Greek Tragedy**

The plays of Aeschylus, Sophocles, and Euripides. All readings are in English. **Prerequisite(s):** CL 100 or CL 102 or CL 103 or CL 106 or the equivalent. *Creative Arts, and Past course.*

CL 252 3 hrs.**Greek and Roman Comedy**

The plays of Aristophanes, Menander, Plautus, and Terence. All readings are in English. **Prerequisite(s):** CL 100 or CL 101 or CL 102 or CL 103 or CL 106 or the equivalent. *Creative Arts, and Past course.*

CL 253 3 hrs.**Roman Satire and Rhetoric**

A survey of Roman literature with special emphasis on satire and rhetoric. All readings are in English. **Prerequisite(s):** CL 100 or CL 101 or CL 102 or CL 103 or CL 106 or the equivalent. *Creative Arts, and Past course.*

CL 254 3 hrs.**Prophets in Judaism and Islam**

A cross-cultural survey of prophets. Texts include the Hebrew Bible, the Qur'an, and Islamic and Jewish exegetical material. **Same as** JST 254 and RELS 254. *Past course.*

CL 255 3 hrs.**Greek Science, Islamic Culture**

Traces the reception and development of the ancient sciences in medieval Islamic culture. **Same as** ARAB 255. Taught in English. *Past, and World Cultures course.*

CL 260 3 hrs.**Near Eastern Myths and Epic**

Literature from the ancient Near East with a particular focus on the Epic of Gilgamesh. All texts read in translation. **Prerequisite(s):** CL 102 or CL 104 or CL 208 or CL 250 or CL 251; or consent of the instructor. *Individual and Society, and Past course.*

CL 297 3 hrs.**Studies in the Classical Tradition**

Examination of selected texts of ancient Greek and Roman literature, such as the novel, drama, and epic, and how they inform English and American literature and culture. **Same as** ENGL 297. **Prerequisite(s):** CL 102; or consent of the instructor. *Creative Arts, and Past course.*

CL 298 3 hrs.**Topics in Classical Civilization**

Selected topics at an intermediate level in Greek and Roman civilization. Sample topic: daily life in ancient Rome. May be repeated. Students may register in more than one section per term. All readings are in English.

Prerequisite(s): Any 100-level classics course or the equivalent.

CL 299 3 hrs.**Independent Reading: Special Topics in Classics in Translation**

Individual study under faculty direction. Reading and papers on chosen topics for qualified students based on preparation and interest; students must confer with faculty. May be repeated. Students may register in more than one section per term.

Prerequisite(s): Consent of the instructor and department.

CL 304 3 hrs.**Alexander the Great and the Hellenistic World**

Examines the career of Alexander the Great of Macedon and his legacy in Greece, Egypt, and the Near East, up until the arrival of the Romans. **Same as** AH 304. **Prerequisite(s):** Sophomore standing or above.

CL 310 3 hrs.**Aristotle and the Arabs**

Traces the major topics of ancient Greek philosophy, especially those of Aristotle, and their transformation into the philosophy developed in the Arabic classical period. **Same as** ARAB 310 and PHIL 310. **Prerequisite(s):** CL 221 or PHIL 221 or RELS 230.

CL 340 3 hrs.**The Iliad of Homer**

Examines the Iliad of Homer. It involves analysis of the structure of the narrative, close examination of characters, and a historical commentary of the Archaic period of Greece.

CL 390 3 hrs.**Seminar in Mediterranean Literature**

Comparative readings in selected texts from the literatures of Ancient Greece, Judaism, Christianity, and Islam with an emphasis on writing and research skills. May be repeated to a maximum of 6 hrs. **Recommended background:** Grade of B or better in CL 104.

CL 398 3 hrs.**Advanced Topics in Classical Civilization**

Advanced study of topics in Greek and Roman civilization. Emphasis on writing and research skills. Sample topic: Latin historiography. May be repeated. Students may register in more than one section per term.

Prerequisite(s): At least two classics courses at the 100- or 200-level.

CL 401 3 OR 4 hrs.**Topics in Greek History**

Specific topics are announced each term. **Same as** HIST 401. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** 3 hours of history or classics.

CL 402 3 OR 4 hrs.**Topics in Roman History**

Specific topics are announced each term. **Same as** HIST 402. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or classics.

CL 404 3 OR 4 hrs.**Roman Law and the Civil Law Tradition**

Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. **Same as** CLJ 404 and HIST 404. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CLJ 200 or CL 203 or HIST 203 or consent of the instructor.

CL 405 3 OR 4 hrs.**Herodotus and His World**

Examines the Histories of Herodotus—both the text and the culture of Classical Greece compared to the Near East and Egypt. Course information: **Same as** HIST 405. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Sophomore standing or above.

CL 498 3 OR 4 hrs.**Special Topics in Classical Civilization**

Advanced study of topics in classical civilization. Sample topic: Augustus and his image. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. All readings are in English. **Prerequisite(s):** Two classics courses at the 200-level.

CL 499 3 OR 4 hrs.**Advanced Independent Study**

Advanced independent study under faculty direction. Reading and papers on chosen topics for qualified students based on preparation and interest. Students must consult with faculty. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the faculty member and department.

Communication**COMM 100 3 hrs.****Fundamentals of Human Communication**

Emphasis on strategies for public speaking and conducting meetings. Effective approaches to audience analysis, speaker credibility, using evidence, argument development, speech delivery, and planning meetings. No credit given toward the Major in Communication. *Individual and Society course.*

COMM 101 3 hrs.**Introduction to Communication**

Introduction to central concepts in communication, including key terms and theories, specific contexts and key debates. *Individual and Society course.*

COMM 102 3 hrs.**Introduction to Interpersonal Communication**

Effective communication in human relationships; verbal and nonverbal messages; reflective listening, disclosure, showing affection, empathy, assertiveness; handling interpersonal conflict; cultural and gender differences. *Individual and Society course.*

COMM 103 3 hrs.**Introduction to Media**

Conceptualizing mass communication. Internal and external controls. Media and minorities. Individual and societal functions of the media. Individual and societal effects of the media. *Individual and Society course.*

COMM 105 3 hrs.**African Americans in Film, 1900–Present: Images, Individuals, and Ideas on Screen**

Examination of the history of African Americans in film from Oscar Micheaux to Spike Lee and Julie Dash; the careers of Black filmmakers, actors, images, themes and ideas in films by and about people of African descent in the 20th century. **Same as** AAST 105. *Creative Arts, and U.S. Society course.*

COMM 140 3 hrs.**Fundamentals of Media Communication**

Instruction and practice in the composition, analysis, and dissemination of messages that employ media in professional contexts. *Individual and Society course.*

COMM 200 3 hrs.**Communication Technologies**

History, development, and social impact of communication technology: print, broadcast, cable, satellite, computer, Internet. Issues related to infrastructure, regulation, access, globalization, conveyance, and change. **Same as** MOVI 200. **Prerequisite(s):** COMM 103 and sophomore standing or above and approval of the department. **Registration restrictions:** For Moving Image Arts minors must obtain approval of the Department of Communication.

COMM 201 3 hrs.**Statistics in Communication Research**

Processes of communication research as a social science; variables, hypotheses, and theories; conceptual and operational definition; sampling; research design; statistics; use of computers for research. **Prerequisite(s):** MATH 090 or MATH 092 or MATH 118; and two from COMM 101, COMM 102, COMM 103; or approval of the department.

COMM 204 3 hrs.**Gender and Popular Culture**

Analysis of representations of gender and sexuality in popular and material culture, using contemporary theories. Focus is on U.S. popular culture. **Same as** GWS 204. **Prerequisite(s):** Sophomore standing or above; or consent of the instructor.

Recommended background:

Credit or concurrent registration in GWS 101 or credit or concurrent registration in COMM 102 or credit or concurrent registration in GWS 102 or credit or concurrent registration in COMM 103. *Individual and Society, and U.S. Society course.*

COMM 207 3 hrs.**The Mass Media and Politics**

Impact of mass media coverage on political attitudes and the conduct of American politics. Communication policies and media institutions in times of rapid technological change. **Same as** POLS 207. **Prerequisite(s):** One course in political science, sociology or contemporary history.

COMM 234 3 hrs.**History of Television**

A critical history of television. **Same as** ENGL 234 and MOVI 234. One additional hour each week for required screenings.

COMM 301 3 hrs.**Communication Research**

Designs and measurements for conducting empirical analyses of communication activities in both laboratory and business settings. **Prerequisite(s):** At least 18 hours of course work in communication, including COMM 201, and approval of the department.

COMM 303 3 hrs.**Communication and Culture**

Examination of the relationship between communication and culture through an exploration of the general theoretical principles linking cultural influences and communicative acts. Credit is not given for COMM 303 if the student has credit in COMM 203. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201 and junior standing or above; or approval of the department.

COMM 304 3 hrs.**Male-Female Communication**

Speech differences and universals across genders. Talk in male-female interaction. Communication in romantic relationships. Gender issues in work settings. **Same as** GWS 304. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201 and COMM 203; or approval of the department.

COMM 306 3 hrs.
Organizational Communication

Examination of communication issues in organizational settings. Exposure to topics such as rules, networks, leadership, and decision making as well as methods of analyzing communication problems. **Prerequisite(s):** Junior standing and COMM 201 and COMM 315; or consent of the instructor.

COMM 309 3 hrs.
Environmental Communication

Description and analysis of communication practices about environmental issues with attention to conflict resolution, media coverage, advocacy initiatives, and marketing campaigns.

Prerequisite(s): COMM 101 and COMM 201; or approval of the department.

COMM 311 3 hrs.
Interviewing and Communication

Study of the forms and principles of information-seeking interviews, with special attention to fact finding and data gathering missions. **Prerequisite(s):** COMM 102 and any two 200-level communication courses or consent of the instructor.

COMM 315 3 hrs.
Group Communication

Study and practice in the theories and techniques of group communication; the nature of small group decision making; observation and analysis of established work groups. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201; or approval of the department.

COMM 316 3 hrs.
Writing for the Electronic Media

Principles of writing applied to the presentation of information in electronic media. Practical applications and analysis of relations between form and content. **Prerequisite(s):** COMM 200 and COMM 201; or approval of the department.

COMM 323 3 hrs.
Argument and Persuasion
Analysis and application of historical and contemporary theories of argument and persuasion as they function to form or change opinions and beliefs. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201; or approval of the department.

COMM 330 3 hrs.
Mass Media and Popular Culture

A theoretical and analytical examination of the media and popular arts as cultural artifacts. Focus on form, content, design, and effects of cultural commodities. **Prerequisite(s):** COMM 103 and COMM 201 and juniors standing; or approval of the department.

COMM 394 3 hrs.
Special Topics in Communication

Analysis of contemporary or historical issues in media and communication. May be repeated. **Prerequisite(s):** COMM 200 and COMM 201; or approval of the department.

COMM 404 3 OR 4 hrs.
Discourse Analysis

Nonverbal aspects of communication; rules of communication; speech acts; conversational coherences; acts and sequences in communication; marital communication patterns. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** COMM 304 or COMM 315 or COMM 416 or approval of the department.

COMM 416 3 OR 4 hrs.
Conflict and Communication

Students learn to manage and resolve conflict in business, governmental, and community settings. Practical analysis of interpersonal and group conflict cases. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** COMM 312 and COMM 313 and COMM 315; or approval of the department.

COMM 423 3 OR 4 hrs.
Discourse and Rhetoric

Exploration of interconnections between language and social practices with attention to multiple components of discursive situations: senders, receivers, context, code, media, and content. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201; or approval of the department.

COMM 430 3 OR 4 hrs.
Media, Information, and Society

News as a distinct form of mass communication, involving social functions and significant questions about facts, truth, knowledge and values. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** COMM 103 and COMM 200; or COMM 300; or approval of the department.

COMM 434 3 OR 4 hrs.
Global Communication Systems

Structure and flow of international communication. Media organization systems. International impact of new media and information technology. Impact of U.S. media reporting on foreign affairs. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Approval of the department.

COMM 454 3 hrs.
Cognitive Psychology of Language

Provides students with a survey of methods, theory, and research in language and discourse processing. **Same as** LING 474 and PSCH 454. **Prerequisite(s):** Graduate standing or consent of the instructor.

COMM 456 3 OR 4 hrs.
Topics in the History of Communications

This course introduces students to major developments in the history of communications, with a focus on the political and cultural dimension of technologies. **Same as** HIST 456. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor. **Recommended background:** At least one history course at the 100-level.

COMM 458 3 OR 4 hrs.
Minorities and Communication

Description and analysis of the processes through which ethnic and racial perceptions shape public discourse. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Two communication courses at the 300-level; or approval of the department.

COMM 460 3 OR 4 hrs.
Visual Communication

Exploration of processes through which meaning is derived from verbal and visual roles of media images in the cultural circuit. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Two communication courses at the 300-level; or approval of the department.

COMM 467 3 OR 4 hrs.
Public Opinion and Political Communication

Nature of public opinion and political communication systems. Patterns of opinion distribution and its measurement. Forces shaping public opinion and its impact on public policy. **Same as** POLS 467. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POLS 200 or the equivalent or consent of the instructor.

COMM 473 3 OR 4 hrs.
Organizations and Their Publics

History of relevant theories and models; problem solving: analyzing goals, identifying publics, setting objectives, designing messages, choosing channels, planning implementation (budgeting, staffing, timetables), evaluating effects. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** COMM 201 and COMM 306; or approval of the department.

COMM 474 1–8 hrs.
Internship

Students work in an approved professional setting. Individual projects developed through conferences with a faculty member and a field supervisor. May be repeated. Students may register in more than one section per term. A maximum of three hours may be counted toward the undergraduate Communication major requirements. May not be counted toward the minimum Master of Arts degree requirements. **Prerequisite(s):** 12 hours of upper-division courses in communication, with a 3.00 grade point average in those courses; recommendation of two faculty members and approval of the department obtained in the semester prior to internship.

COMM 490 3 hrs.
Seminar in Culture and Communication

Analysis of contrastive cultural paradigms (interethnic, gender, class) to develop student's awareness of own socialization and cultural orientation. **Prerequisite(s):** COMM 301 plus any other 300-level Communication course, or approval of department.

COMM 491 3 hrs.
Seminar in Media and Communication

Analysis of contemporary or historical issues in mediated communication. **Prerequisite(s):** COMM 301 plus any other 300-level Communication course, or approval of department.

COMM 494 3 OR 4 hrs.
Special Topics in Communication

Contemporary trends in the field of communication. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** COMM 200 and COMM 201 and consent of the instructor; or approval of the department.

COMM 498 1–4 hrs.
Independent Study

Individual investigation of special problems (student-initiated or related to faculty research). May be used for special projects, such as interdisciplinary seminars. May be repeated to a maximum of 8 hrs. Students may register in more than one section per term. A maximum of 3 hours of credit may be applied toward the Major in Communication. Credit earned may not be applied toward the minimum Master of Arts in Communication degree requirements. **Prerequisite(s):** Senior standing and approval of the department.

Computer Science**CS 100 3 hrs.**
Computer Literacy

Introduction to computing; the Internet; Web; file systems; electronic mail; basic tools (such as editors, databases); programming concepts; computer ethics; security and privacy. Computer lab. Previously listed as EECS 102. No graduation credit for students enrolled in a major offered by the Departments of Computer Science or Electrical and Computer Engineering.

CS 101 3 hrs.
Introduction to Computing

Introduction to computing resources and tools. Computer access, security, and responsibility. Navigation and communication. Networks; Internet resources. Applications. Programming languages, concepts, and practice. Programming exercises. Previously listed as EECS 101.

CS 102 3 hrs.
Introduction to Programming
 Programming languages and program design; data types and operators, expressions, control structures, procedures, and modularity. Language definition and programming laboratory. Previously listed as EECS 171.
Prerequisite(s): CS 101 and credit or concurrent registration in MATH 180 or consent of the instructor.

CS 107 4 hrs.
Introduction to Computing and Programming
 Access and use of computing resources. Programming and program design. Problem solving. Data types, control structures, modularity, information hiding. Credit is not given for CS 107 if the student has credit for CS 102. Previously listed as EECS 171.
Prerequisite(s): Credit or concurrent registration in MATH 180.

CS 108 3 hrs.
Fortran Programming for Engineers with MATLAB
 Program design using Fortran: data types and operators, control structures, subprograms, file I/O, common storage. Engineering applications: matrices, equation solutions, MATLAB environment. Programming assignments. Extensive computer use required.
Prerequisite(s): Credit or concurrent registration in MATH 180.

CS 109 3 hrs.
C/C++ Programming for Engineers with MATLAB
 Program design using C/C++: data types and operators, control structures, functions, file I/O, arrays, and structures. Engineering applications: Matrices, equation solution, MATLAB. Programming assignments. Extensive computer use required.
Prerequisite(s): Credit or concurrent registration in MATH 180.

CS 201 4 hrs.
Data Structures and Discrete Mathematics I
 Lists, stacks, queues, sets, hash tables, introduction to trees and graphs. Algorithm correctness and complexity, inductive proofs, logic. Programming projects. Previously listed as EECS 260. Credit is not given for CS 201 if the student has credit for MCS 261.
Prerequisite(s): MATH 180; and grade of C or better in CS 102 or grade of C or better in CS 107.

CS 202 3 hrs.
Data Structures and Discrete Mathematics II
 Combinatorics; complex data structures: trees, heaps, and graphs. Sorting and searching algorithms. Programming projects. Previously listed as EECS 360.
Prerequisite(s): Grade of C or better in CS 201.

CS 266 4 hrs.
Computer Architecture I: Logic and Computer Structures
 Architecture from gate level up. Combinational and sequential logic. Logical minimization. Integer number systems, arithmetic. Datapath design. Finite state machines. Register-based architecture. Memory technologies. Credit is not given for CS 266 if the student has credit in any of the following: EECS 265 or EECS 365 or EECS 366 or ECE 265 or ECE 267 or ECE 366.
Prerequisite(s): CS 102.

CS 301 3 hrs.
Languages and Automata
 Regular sets and finite automata. Context-free languages and push-down automata. Parsing. Computability theory including Turing machines and decidability. Previously listed as EECS 361.
Prerequisite(s): Grade of C or better in CS 201; and credit or concurrent registration in CS 202.

CS 335 2 hrs.
Computer Ethics
 Ethical, societal, and environmental issues for computer professionals. Professional ethics, software ownership, unreliability, responsibility, privacy, computer crime, veracity, expert systems, workplace and health issues. Previously listed as EECS 375.
Prerequisite(s): CS 202.

CS 340 4 hrs.
Software Design
 Programming language semantics, scope, overloading, data abstraction, constructors. Procedural and object-oriented design, programming tools, and environments. Interactive application structure and interface, windows, events, widgets. Previously listed as EECS 370.
Prerequisite(s): CS 202.

CS 366 4 hrs.
Computer Architecture II: Hardware-Software Interface
 A continuation of CS 266. Control-unit and I/O design; assembly language and machine programming; hardware control and I/O; memory hierarchy and caching. Credit is not given for CS 366 if the student has credit for any of the following: EECS 265 or EECS 365 or EECS 366 or ECE 265 or ECE 267 or ECE 366.
Prerequisite(s): CS 266.

CS 376 1 hour.
Practicum in Computer Science Presentations
 Techniques for effective presentation of computer science topics: terminology, organization, visual aides, and delivery of technical talks; presentations and presentation evaluation required.
Prerequisite(s): ENGL 161 and CS 102.

CS 385 4 hrs.
Operating Systems Concepts and Design
 Operating systems issues, operations. Process execution, scheduling; memory management, virtual memory design; concurrent process coordination, properties: deadlock, mutual exclusion synchronization primitives; distributed systems issues; network design. Previously listed as EECS 371.
Prerequisite(s): CS 201; and CS 366 or ECE 267.

CS 398 3 hrs.
Undergraduate Design/Research
 Design and/or research experience for undergraduate Computer Science majors under close supervision of a CS faculty member. Previously listed as EECS 398.
Prerequisite(s): Consent of the instructor.

CS 401 3 OR 4 hrs.
Computer Algorithms I
 Design and analysis of computer algorithms. Divide-and-conquer, dynamic programming, greedy method, backtracking. Algorithms for sorting, searching, graph computations, pattern matching, NP-complete problems. **Same as** MCS 401. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Grade of C or better in MCS 360; or grade of C or better in CS 202.

CS 411 3 OR 4 hrs.
Artificial Intelligence I
 Problem representation; rule-based problem solving methods; heuristic search techniques. Application to expert systems, theorem proving, language understanding. Individual projects. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 484.
Prerequisite(s): CS 202.

CS 415 3 OR 4 hrs.
Computer Vision I
 Computer vision system design. Segmentation and representation of regions and boundaries; image filtering; object recognition; advanced topics (examples: texture, stereo, color); applications. Programming assignments. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 487.
Prerequisite(s): CS 202 or MCS 360; or consent of the instructor.

CS 421 3 OR 4 hrs.
Natural Language Processing
 Design of natural language processing systems; part-of-speech tagging, statistical and symbolic parsers; semantic interpretation; discourse and dialogue processing; natural language generation; applications. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CS 301 or MCS 441.

CS 422 3 OR 4 hrs.
User Interface Design and Programming
 User interface design, implementation, and evaluation: user-centered design methodologies, windowing systems, I/O devices and techniques, event-loop programming, user studies. Programming projects. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 478.
Prerequisite(s): CS 340.

CS 426 3 OR 4 hrs.
Video Game Design and Development
 Theory and practice of video game design and programming. Students will form interdisciplinary teams, to design, build, and demonstrate video games or related interactive simulation environments. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CS 107 and CS 201 and CS 488; or consent of the instructor.

CS 440 3 OR 4 hrs.
Software Engineering I
 Software life-cycle model, requirement specification techniques, large-scale software design techniques and tools, implementation issues, testing and debugging techniques, software maintenance. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 470.
Prerequisite(s): CS 340.

CS 441 3 OR 4 hrs.
Distributed Object Programming Using Middleware
 Design and implementation of distributed object programs using middleware software standards; interface definition languages and programming language mappings; static and dynamic object communication mechanisms. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required.
Prerequisite(s): CS 340 and CS 385.

CS 442 3 OR 4 hrs.
Software Engineering II
 Advanced concepts in software development: requirements engineering, cost estimation, risk analysis, extreme programming, regression test case selection, and design patterns. Software lab assignments required. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required.
Prerequisite(s): CS 440.

CS 450 3 OR 4 hrs.
Introduction to Networking
 Network protocols, algorithms, and software issues. Topics include the Open Systems Interconnect model, data link, network and transport layers, TCP/IP, ATM, mobile networks. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 433. Credit is not given for CS 450 if the student has credit for ECE 433.
Prerequisite(s): CS 202 and CS 385; and STAT 381 or STAT 401 or IE 342.

CS 455 3 OR 4 hrs.
Design and Implementation of Network Protocols

Network protocols and their software, examines OS network interface through network layers. Topics include routing, congestion control, fault tolerance, security, name servers, multicast, and performance. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): CS 340 and CS 450.

CS 466 3 OR 4 hrs.
Advanced Computer Architecture

Design and analysis of high performance uniprocessors. Topics include arithmetic: multiplication, division, shifting; processor: pipelining, multiple function units, instruction sets; memory: caches, modules; virtual machines. **Same as** ECE 466. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ECE 366 or CS 366.

CS 469 3 OR 4 hrs.
Computer Systems Design

Analysis and modeling of digital systems; hardware description languages; CAD tools for simulation, synthesis, and verification of computer systems. Project: a simple processor design. 3 undergraduate hrs. 4 graduate hrs.

Same as ECE 469.
Prerequisite(s): CS 366; or ECE 366 and ECE 368.

CS 473 3 OR 4 hrs.
Compiler Design

Language translation: lexical analysis, parsing schemes, symbol table management, syntax and semantic error detection, and code generation. Development of fully functional compiler. **Same as** MCS 411. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in CS 301 or grade of C or better in MCS 441; and grade of C or better in CS 202 or grade of C or better in MCS 360; and grade of C or better in CS 266.

CS 474 3 OR 4 hrs.
Object-Oriented Languages and Environments

Data abstraction, classes and objects, messages and methods, polymorphism and dynamic binding, inheritance. Object-oriented design. Pure and hybrid object-oriented languages. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 474. **Prerequisite(s):** CS 340.

CS 475 3 OR 4 hrs.
Object-Oriented Programming

OO Paradigm: classes, messages, methods, variables, inheritance, polymorphism; the C++ and Java languages; programming labs required. 3 undergraduate hrs. 4 graduate hrs. Credit is not given for CS 475 if the student has credit for CS 340 or CS 474. Extensive computer use required. **Prerequisite(s):** CS 202; and consent of the instructor.

CS 476 3 OR 4 hrs.
Programming Language Design

Definition, design, and implementation of programming languages. Syntactic and semantic description; variable bindings, control and data structures, parsing, code generation, optimization; exception handling; data abstraction. **Same as** MCS 415. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 476. **Prerequisite(s):** MCS 360 or CS 340.

CS 480 3 OR 4 hrs.
Database Systems

Database design, logical design, physical design. Relational databases. Recovery, concurrency control. Normalization. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 480. **Prerequisite(s):** CS 202.

CS 485 4 OR 5 hrs.
Networked Operating Systems Programming

Concepts, design, and programming of multiprocess and distributed systems; interprocess communications; fault tolerance; distributed programming semantics. Programming assignments and project required. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECS 471. **Prerequisite(s):** CS 385.

CS 487 3 OR 4 hrs.
Building Secure Computer Systems

Building and programming secure systems; protecting systems from threats and reduction of vulnerabilities; includes application, host and network security. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Grade of C or better in CS 385; and senior standing or above; or consent of the instructor.

CS 488 0–4 hrs.
Computer Graphics I

Principles of interactive computer graphics. Raster and vector display, techniques, and hardware considerations. Introduction to two-dimensional and three-dimensional rendering. Laboratory. **Same as** AD 488. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 488. **Prerequisite(s):** Credit or concurrent registration in CS 340.

CS 491 1–4 hrs.
Seminar

Topics of mutual interest to a faculty member and a group of students. Offered as announced by department bulletin or the *Schedule of Classes*. May be repeated. Previously listed as EECS 491. **Prerequisite(s):** Consent of the instructor.

CS 493 2–4 hrs.
Special Problems

Special problems or reading by special arrangement with the faculty. Previously listed as EECS 493. No graduate credit for Computer Science majors. **Prerequisite(s):** Consent of the instructor.

Criminology, Law, and Justice

CLJ 101 3 hrs.
Introduction to Criminology, Law, and Justice

The study of the development and contemporary operations of criminal justice agencies, from police through probation and parole, focusing upon "power elites" and the use of discretion. *U.S. Society course.*

CLJ 102 3 hrs.
Foundations of Law and Justice

The philosophical and historical foundations of American and non-American criminology, law, and justice. Focus on diversity, due process, equality, liberty, punishment, social control, and legal institutions and procedures. *U.S. Society course.*

CLJ 110 3 hrs.
Rights, Justice, and the Law

The historical evolution, philosophical justification, and political context of human rights are examined. The balance between individual rights and social responsibility is analyzed. *U.S. Society course.*

CLJ 114 3 hrs.
Race, Class, Gender, and the Law

A review of criminological theories, organizational decision making, and a consideration of contemporary criminology, law, and justice policies with specific attention to race, class, and gender. *U.S. Society course.*

CLJ 120 3 hrs.
Crime and Society

Provides an introduction to theories of social deviance and control. The historical development, empirical basis, strengths, and limitations of various theories are analyzed. This course may be taught in a blended-online and classroom format. When that is the case, use of a computer and Internet access will be required. A high-speed connection is strongly recommended. Please check the online class schedule for blended-online sections. *U.S. Society course.*

CLJ 121 3 hrs.
Violence in Society

Causes and consequences of violence in the United States and in other societies. Various theories of violence are discussed and used to analyze individual, group, and governmental violence. This is a blended-online and classroom course. Use of a computer and Internet access is required. A high-speed connection, while not required, is strongly suggested. *U.S. Society course.*

CLJ 200 3 hrs.
Law in Society

Development of law and legal institutions from historical, comparative, and contemporary perspectives; interrelationships of law, custom, morality, and social change; the legal profession. **Prerequisite(s):** CLJ 101. *U.S. Society course.*

CLJ 210 3 hrs.

Principles of Criminal Law

A survey of the basic principles of criminal law and procedure: proof of fact, act and intent, responsibility. **Prerequisite(s):** CLJ 101.

CLJ 220 3 hrs.
Criminology

Introductory survey of the literature developed by criminologists in their study of crime in American society. **Same as** SOC 231. **Prerequisite(s):** CLJ 101.

CLJ 240 3 hrs.
Criminal Justice Organizations

Theories of complex organizations, organization behavior, and administration relating to criminal justice and other rule-applying agencies. **Prerequisite(s):** CLJ 101.

CLJ 261 3 hrs.
Research Methods I

Introduction to research in criminology, law, and justice. From conceptualization to description of results. Research design, observation, archival, survey, and experimental methodologies in criminal justice related settings. **Prerequisite(s):** CLJ 101.

CLJ 262 3 hrs.
Research Methods II

Statistical data analysis in the criminology, law, and justice context. Probability, t-tests, correlation, regression, sampling theory, tests of significance. Problems with police and crime survey data. **Prerequisite(s):** CLJ 261; and one of the following: MATH 090 or MATH 092 or MATH 118.

CLJ 271 3 hrs.
African Americans and the Politics of Incarceration

Examination of the status of African Americans as offenders, victims, and personnel within the criminal justice system. **Same as** AAST 271 and SOC 271. **Prerequisite(s):** AAST 100 or CLJ 101 or SOC 100; or consent of the instructor. *Individual and Society, and U.S. Society course.*

CLJ 301 0 hrs.
Writing in the Discipline

This course will be used to satisfy the Writing-in-the-Discipline requirement. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Junior or senior standing; and approval of the department.

CLJ 303 3 hrs.
Introduction to Forensic Science

Examines the basic principles and judicial uses of forensic science. Reviews the applications of the biological, physical, and behavioral sciences to questions of evidence and the law. **Prerequisite(s):** Junior standing and major in either criminology, law and justice, or a natural sciences discipline; or consent of the instructor.

CLJ 310 3 hrs.
Substantive Criminal Law
 General doctrines of criminal liability in the U.S.; classification of crimes against persons, property, and the public welfare; the concept of governmental sanctions of an individual's conduct.
Prerequisite(s): CLJ 210 and one other 200-level criminology, law, and justice course.

CLJ 311 3 hrs.
Criminal Procedure
 Legal problems associated with the investigation of crime, acquisition of evidence, commencement of adjudication, sentencing, and appellate rights.
Prerequisite(s): One 200-level criminology, law, and justice course.

CLJ 345 3 hrs.
Police in Society
 The functions and organization of police/investigative agencies, especially those on the local level, the nature of the experience of being a police officer.
Prerequisite(s): CLJ 101 and CLJ 240 and one other 200-level criminology, law, and justice course; or consent of the instructor.

CLJ 350 3 hrs.
Courts in Society
 Behavior and structure of state and federal criminal courts, including preadjudication processing, prosecutorial and defense decisions, guilty-plea processes, bench and jury trials, sentencing, judicial selection, court administration.
Prerequisite(s): CLJ 101 and two 200-level criminology, law, and justice courses; or consent of the instructor.

CLJ 355 3 hrs.
Punishment, Prisons, and Corrections
 A survey of American corrections from local jails to mega prisons; correctional field services; probation and parole and recent developments in alternatives to incarceration.
Prerequisite(s): CLJ 101 and two 200-level criminology, law, and justice courses; or consent of the instructor.

CLJ 361 3 hrs.
Criminal Investigation
 Methods for reconstructing criminal acts using information derived from people, physical evidence, and records; scientific, organizational, and legal considerations in conducting such inquiries.
Prerequisite(s): CLJ 101 and two 200-level criminology, law, and justice courses; or consent of the instructor.

CLJ 394 3 hrs.
Senior Studies in Criminology, Law, and Justice
 The analysis and exposition of historical or contemporary issues in the criminology field. Topics may vary from semester to semester.
Prerequisite(s): Senior standing.

CLJ 395 3 hrs.
Internship
 Observation of and participation in the daily work of a criminal justice agency, private or public. Work is supervised by a faculty member and the management of personnel of the agency. May be repeated to a maximum of 6 hrs. A maximum of three hours may be counted toward the undergraduate major in criminology, law, and justice.
Prerequisite(s): CLJ 200 and CLJ 210 and CLJ 220 and CLJ 240 and CLJ 261 and CLJ 262; and one from among CLJ 345 or CLJ 350 or CLJ 355 and junior standing; and consent of the instructor; and preregistration in the department.

CLJ 399 2-8 hrs.
Independent Study
 Independent study and research under the supervision of a faculty member, on a subject not covered in the regular curriculum. May be repeated. Repeating course for more than 6 hours must be approved by the head of the department.
Prerequisite(s): CLJ 200 and CLJ 210 and CLJ 220 and CLJ 240 and CLJ 261 and CLJ 262; and one course from among CLJ 345 or CLJ 350 or CLJ 355; and a 3.50 overall grade point average, and a 3.00 grade point average in criminology, law, and justice course work. For criminology, law, and justice majors only.

CLJ 402 3 OR 4 hrs.
Trial Interaction
 Language use, culture, and law in the trial process. Analysis of qualitative methods applied to legal processes and change.
Same as LING 402. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 261 and CLJ 350; or consent of the instructor.

CLJ 404 3 OR 4 hrs.
Roman Law and the Civil Tradition
 Roman law and its relationship to values and social structure; social analysis through law; continental law tradition.
Same as CL 404 and HIST 404. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 200 or CL 203 or HIST 203 or consent of the instructor.

CLJ 405 3 OR 4 hrs.
The Problem of Justice
 Premodern and modern views of justice and their practical utility in analyzing legislative, executive, and judicial programs for enhancing or restricting justice.
Same as POLS 405. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 101, plus two 200-level courses in criminology, law, and justice or two 200-level courses in political science.

CLJ 421 3 OR 4 hrs.
Youth, Crime, Law, and Justice in Society
 Theories of juvenile delinquency and rule breaking; juvenile rights; organization and administration of the juvenile justice system in the U.S. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 210 and CLJ 220.

CLJ 422 3 OR 4 hrs.
Victimization
 Survey of criminal victimization theory and research. Examination of causes, consequences, and prevention of violent crime and of victims' experiences in the criminal justice system. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 101 and two 200-level criminology, law, and justice courses.

CLJ 423 3 OR 4 hrs.
Violence
 Explores how men and women have experienced violence historically and in modern times. Students examine how violence is perpetrated through words, pictures, physical harm, and silences.
Same as ANTH 424. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 101 and CLJ 200.

CLJ 424 3 OR 4 hrs.
Gender, Crime, and Justice
 An in-depth examination of the etiology of female crime and the involvement of females in the criminal justice system as offenders, victims, and workers/professionals.
Same as GWS 424. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 101 and CLJ 220; or consent of the instructor.

CLJ 435 3 OR 4 hrs.
Organized and White Collar Crime in the United States
 Analysis and evaluation of organized crime, including its public perception; sociological, political, and economic impacts as well as past and present enforcement strategies. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Two 200-level criminology, law, and justice courses.

CLJ 442 3 OR 4 hrs.
Comparative Criminal Justice Institutions
 Comparative study of law, jurisprudence, enforcement, and punishment in Western and non-Western societies, including civil law, common law, and Islamic systems. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Two 200-level criminology, law, and justice courses.

CLJ 456 3 OR 4 hrs.
Community Corrections
 History, processes, and functions of programs organized for sanctioning offenders in community settings, such as probation, parole, halfway houses, restitution, community service, home confinement. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): CLJ 350 or CLJ 355; plus one 200-level criminology, law, and justice course.

CLJ 480 4 hrs.
Application of Science to the Law
 Issues affecting the development, accessibility and admissibility of forensic science services by the criminal justice system; problems which may compromise the quality, fairness, and effectiveness of scientific inquiries.
Same as BPS 480.
Prerequisite(s): CLJ 210 and CLJ 260; or graduate standing.

CLJ 491 3 OR 4 hrs.
Topics in Rule Breaking
 Content of course varies, addressing major issues. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). Students may register in more than one section per term.
Prerequisite(s): Six 200- or 300-level criminology, law, and justice courses.

CLJ 492 3 OR 4 hrs.
Topics in Rule Application
 Content of course varies, addressing major issues. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). Students may register in more than one section per term.
Prerequisite(s): Six 200- or 300-level criminology, law, and justice courses.

Curriculum and Instruction

CI 410 4 hrs.
Literature, Social Studies, and the Arts in the Elementary School
 Theory and practice in curriculum development, planning instruction, and assessing learning in elementary classrooms. Literature, social studies, and the arts content foci.

CI 414 3 hrs.
Middle and High School Literacy
 Focuses on the teaching of reading and writing strategies appropriate for disciplinary learning and expression. Fieldwork required. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

CI 416 3 hrs.
Programs for Underserved Youth
 Survey and evaluation of physical activity-based and other models and programs designed to help underserved youth in school, extended day, and special programs. Includes development of new models. **Prerequisite(s):** Junior standing or above and consent of the instructor.

CI 464 4 hrs.
Bilingualism and Literacy in a Second Language
 Theoretical foundations of second language acquisition and the teaching of English as second language. Methods and materials for teaching reading and writing in bilingual/ESL settings. **Prerequisite(s):** Junior standing and admission into the College of Education or consent of instructor.

CI 472 4 hrs.
Language Proficiency Assessment and ESL Instruction
 English language proficiency assessment instruments and procedures; effective planning and ESL instructional practices; methods, materials, and technology resources for teaching ESL in K-12 school settings. **Prerequisite(s):** CI 481 and junior standing or above; or consent of the instructor.

CI 480 3 OR 4 hrs.
Technology and Multimedia: Learning Tools in the Classroom
 New technologies to support teaching and learning in precollege classrooms. **Same as** SPED 480. 3 undergraduate hrs. 4 graduate hrs.

CI 481 4 hrs.
Foundations and Current Issues in Educating English Language Learners
 Philosophical, theoretical, sociocultural, and educational examination of learning and achievement issues that culturally and linguistically diverse students face in American schools. Fieldwork required. **Prerequisite(s):** Junior standing or above.

CI 482 4 hrs.
Assessment and Instruction: A Multilingual/Multicultural Perspective
 Methods and materials for teaching English language learners (ELLs) in bilingual/ESL classrooms. Emphasis upon curricular and methodological practices, assessment for academic placement, and instruction. **Prerequisite(s):** CI 481 and junior standing or above; or consent of the instructor.

CI 483 3 OR 4 hrs.
Methodology of TESOL
 Methods of teaching listening, speaking, reading, and writing to speakers of English as a second or foreign language. **Same as** LING 483. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing and consent of the instructor.

CI 484 3 hrs.
Curriculum and Instruction in the Middle School
 Philosophy, curriculum, and instructional methods for teaching middle grade students (grades five through eight). Content area reading is included. **Prerequisite(s):** ED 200 and ED 210; or graduate standing and either ED 402 or ED 403, and either ED 421 or ED 422 or ED 445 and either ED 430 or ED 431 and approval of the College of Education.

CI 494 1-4 hrs.
Special Topics in Curriculum and Instruction
 Exploration of an area not covered in existing course offerings. Content varies. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

Disability and Human Development

DHD 176 3 hrs.
Disability in American Film
 Examines images of disability in popular and documentary film. It is primarily intended to develop interpretations of disability as a meaning-making device in visual media. *Creative Arts, and U.S. Society course.*

DHD 401 3 hrs.
Foundations of Disability and Human Development
 A critical review of key concepts and issues in disability. Students will develop a framework for understanding disability as a multilevel entity, including the impact of disability at personal, social, and societal levels. **Prerequisite(s):** Enrollment in the MS in Disability and Human Development program or consent of the instructor.

DHD 430 3 hrs.
Introduction to Disability Policy and Organization
 Legislative, legal, and administrative foundations for the provision of services to persons with disabilities in the U.S. Roles of

residential institutions, the independent living movement, class action litigation, and advocacy. **Prerequisite(s):** DHD 401 or consent of the instructor.

DHD 440 3 hrs.
Introduction to Assistive Technology: Principles and Practice
 Principles and exemplary practice of assistive technology used by individuals with disabilities, including augmentative communication, seating, mobility, computer access, environmental control, home modifications, and website modifications. **Prerequisite(s):** Graduate standing or consent of the instructor. **Recommended background:** Undergraduate enrolled in health sciences, education, or engineering and working professionals seeking to develop assistive technology as an area of concentration.

DHD 441 3 hrs.
Adaptive Equipment Design and Fabrication
 Examination of the interaction between design and disability, through comparison of appropriate design theories, materials, and work on consumer-based issues. **Prerequisite(s):** Graduate standing; or DHD 440 and consent of the instructor. **Recommended background:** Undergraduates enrolled in health sciences, education, or engineering, or working professionals seeking to develop assistive technology as an area of concentration.

DHD 444 3 hrs.
Assistive Technology for Literacy, Learning, and Participation in Pre-K through High School
 Use of communication systems, computers, adapted equipment, and strategies to foster participation and inclusion of students in grades preschool through high school. **Same as** SPED 444.

DHD 445 3 OR 4 hrs.
Topics in Disability Studies
 This course will focus on topics structured around particular aspects of Disability Studies and its practical, cultural, and theoretical implications. **Same as** ENGL 445. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363 or ENGL 364; and senior standing or above; or consent of the instructor.

DHD 460 3 hrs.
Fundamentals of Behavior Analysis
 Introduction to the principles, concepts, and applications of behavioral principles. Content includes philosophic origins, historic and current practices of experimental and applied behavior analysis. **Prerequisite(s):** Credit or concurrent registration in DHD 401 or the equivalent.

DHD 464 3 hrs.
Survey of Developmental Disabilities
 Survey of the developmental disabilities field, including basic definitions, history of DD services, relevant public policies and legislation, service delivery systems, and research. **Same as** CHSC 464. **Prerequisite(s):** Graduate standing or consent of the instructor.

DHD 494 1-4 hrs.
Special Topics in Disability and Human Development
 Systematic study of selected topics in disability and human development. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Graduate standing or consent of the instructor.

Earth and Environmental Sciences

EAES 101 5 hrs.
Exploring the Earth's Surface
 Nature and evolution of the Earth's surface. Interactions among the Earth's solid surface, hydrosphere, atmosphere, and biosphere. Human impacts on natural processes. Lecture, laboratory, and discussion. Credit is not given for EAES 101 if the student has credit for EAES 107. Field trip required at nominal fee. *Natural World—With Lab course.*

EAES 102 5 hrs.
Exploring the Earth's Interior
 Nature and evolution of the Earth's interior. Interactions between the Earth's interior and its surface. Earthquakes, volcanoes, and other geological hazards and their impact on society. Geological materials and resources. Lecture, laboratory, and discussion. Field trip required at nominal fee. *Natural World—With Lab course.*

EAES 107 5 hrs.
The Changing Earth
 Introduction to the earth sciences and the development of the modern environment, using Illinois and, specifically, the Chicago Metropolitan Region to illustrate this relationship. Lecture, laboratory, and discussion. Credit is not given for EAES 107 if the student has credit in EAES 101 or EAES 102. Two Saturday field trips required at nominal fee.

EAES 109 4 hrs.
The Restless Earth
 Introduction to plate tectonics, how ocean seafloor and continents form, break apart, and collide and their relation to volcanoes, earthquakes, Earth's interior, geological resources, and climate change. Lecture, laboratory and discussion. Credit is not given for EAES 109 if the student has credit for EAES 102. *Natural World—With Lab course.*

EAES 180 1 hr.
Honors Earth and Environmental Sciences
 Provides honors students with the opportunity to explore in depth a topic treated in the concurrent lecture course. May be repeated up to 1 time(s). Students may register in more than one section per term. May be taken a total of 2 times, each time with concurrent registration in EAES 101 or EAES 102.
Prerequisite(s): Concurrent registration in EAES 101 or EAES 102. Restricted to Honors students.

EAES 200 2 hrs.
Fieldwork in Missouri
 Field observations in the St. Francois Mountains and vicinity, southeast Missouri. Credit is given upon completion of assignments that include a satisfactory written report. Three two-hour meetings and one-week field trip during the spring vacation. Attendance at the class meetings are mandatory in order to maintain enrollment in the class.
Prerequisite(s): Grade of B or better or concurrent registration in EAES 101 and grade of B or better or concurrent registration in EAES 102. Registration may be limited if student is not majoring in Earth and Environmental Sciences.
Natural World—With Lab course.

EAES 220 4 hrs.
Mineralogy
 Structure, composition, occurrence, and identification of minerals and materials. Introduction to crystallography, optical mineralogy, crystal chemistry, and X-ray diffraction. Applications to earth and environmental sciences.
Prerequisite(s): Credit or concurrent registration in CHEM 112.

EAES 285 4 hrs.
Environmental Geology
 Earth systems and global change; global processes, greenhouse gases and global warming; geologic hazards; energy and the environment; human impact on the physical environment; geology of waste management. Saturday field trip required at nominal fee.
Prerequisite(s): EAES 101 or EAES 107 or consent of the instructor.

EAES 310 4 hrs.
Introduction to Geochemistry
 Principles of geochemical reactions. Chemical evolution of the earth's crust, hydrosphere, and atmosphere. Biogeochemical evolution. Implications for global change.
Prerequisite(s): EAES 220 or consent of the instructor.

EAES 330 4 hrs.
Introduction to Petrology
 Igneous and metamorphic rock composition, classification, rock-forming processes. Description and interpretation of thin-sections.
Prerequisite(s): EAES 220.

EAES 350 4 hrs.
Principles of Sedimentology and Stratigraphy
 Characterization of sediments and sedimentary rocks, sediment transport, deposition and sedimentary structures, depositional environments. Stratigraphic principles, introductory sequence stratigraphy. Applied sedimentary geology. Field trips required at nominal fee.
Prerequisite(s): EAES 220; or consent of the instructor.

EAES 360 4 hrs.
Introduction to Paleontology
 The morphology, ecology, and relationships of fossil organisms. Basic principles of paleontology, including evolution, paleoecology, and functional morphology.
Same as BIOS 360.
Prerequisite(s): EAES 102 or one year of biological sciences.

EAES 390 2 hrs.
Current Topics in Earth and Environmental Sciences
 Seminar on current issues in earth and environmental sciences. Introduction to reading, interpretation, and writing of scientific papers.
Prerequisite(s): Completion of at least one 200-level course in earth and environmental sciences.

EAES 396 2–8 hrs.
Independent Research
 Individual study under supervision of a faculty member in areas not covered in standard courses. May be repeated. Students may register in more than one section per term. A combined maximum of 6 hours of credit in EAES 396 and EAES 492 may be applied toward the degree. Independent research and a resulting undergraduate thesis are required for graduating with highest departmental distinction.
Prerequisite(s): Consent of the instructor.

EAES 400 6 hrs.
Field Experience in Earth Sciences
 Application of geologic mapping and other field techniques to a summer field camp in the Black Hills of South Dakota for a period of six weeks.
Prerequisite(s): EAES 330 and EAES 440, or consent of the instructor.

EAES 410 4 hrs.
Geochemistry
 Origin of elements. Principles of the distribution of elements in the Earth's crust. Element partitioning between coexisting minerals. Thermodynamic considerations of mineral equilibria. Geochemistry of continental waters. Ocean geochemistry.
Prerequisite(s): CHEM 114 or consent of the instructor.

EAES 415 4 hrs.
Environmental Geochemistry
 Chemical reactions in natural environments; surface chemistry of metals and organic compounds. Clay minerals in soils and sediments. Chemistry of contaminant remediation.
Prerequisite(s): EAES 310 or consent of the instructor.

EAES 416 4 hrs.
Organic Geochemistry
 Global carbon cycle, chemical composition of biogenic matter, sedimentology and diagenesis of organic matter, molecular fossils, geopolymers, fossil fuels, anthropogenic organic compounds, carbon isotope geochemistry.
Prerequisite(s): CHEM 114 or CHEM 130, and EAES 350; or consent of the instructor.

EAES 422 4 hrs.
Crystal Chemistry of Rock-Forming Minerals
 The crystal chemistry, chemistry, phase equilibria, and properties of materials and minerals.
Prerequisite(s): EAES 220 or consent of the instructor.

EAES 424 4 hrs.
X-Ray Crystallography
 Introduction to the use of diffraction techniques for the identification and characterization of materials.
Prerequisite(s): Consent of the instructor.

EAES 430 4 hrs.
Igneous Petrology
 Discussion of petrogenesis, application of thermodynamic principles to the crystallization of rocks.
Prerequisite(s): CHEM 114 and EAES 330.

EAES 440 4 hrs.
Structural Geology and Tectonics
 Elementary stress and strain relations; folds, fabrics, and faults; deformation mechanisms; basic plate tectonic concepts with regional geological examples. Required weekend field trip at a nominal fee.
Prerequisite(s): EAES 102.

EAES 444 4 hrs.
Geophysics
 Introduction to basic principles of geophysics applicable for environmental problems and the solid earth, including magnetism, electric, seismic, gravity, geophysical well logging, radioactivity, and heat flow.
Prerequisite(s): EAES 102. **Recommended background:** Completion of introductory courses in physics and calculus.

EAES 448 4 hrs.
Plate Tectonics
 Basic concepts and recent developments including plate kinematics, marine magnetism and paleomagnetism, evolution of oceanic lithosphere, subduction zones, and passive margins.
Prerequisite(s): MATH 180; and PHYS 102 or PHYS 142; or consent of the instructor.

EAES 455 4 hrs.
Clastic Sedimentology and Sequence Stratigraphy
 Processes, facies, and sedimentary architecture in fluvial, deltaic, coastal, and offshore marine clastic depositional environments. Relative sea-level change and its controls on the stratigraphic record. Basin and reservoir modeling. Field trips required at nominal fee.
Prerequisite(s): EAES 350 or consent of the instructor.

EAES 466 4 hrs.
Principles of Paleontology
 Theory and methods of evolutionary paleobiology; includes paleoecology, functional morphology, and major features of organic evolution. **Same as BIOS 466.**
Prerequisite(s): EAES 360 or BIOS 360 or consent of the instructor.

EAES 470 4 hrs.
Surficial Processes
 Quantitative analysis of the mechanics, rates, and distribution of physical processes that modify Earth's and other planets' surfaces. Introduction to field, theoretical, and modeling approaches.
Prerequisite(s): EAES 101 and MATH 181.

EAES 475 4 hrs.
Hydrology/Hydrogeology
 The occurrence, storage, movement, and quality of water above, on and below the Earth's surface. Topics progress through atmospheric water vapor processes, Earth surface hydrology, and groundwater hydrology. Field trip required at nominal fee.
Prerequisite(s): EAES 101 or EAES 107; and MATH 181; or consent of the instructor.

EAES 480 4 hrs.
Statistical Methods in Earth and Environmental Sciences
 Techniques of probability and data analysis as applied to problems in environmental sciences. Sampling, statistical inference, descriptive statistics, multivariate methods, time series analysis.
Prerequisite(s): Consent of the instructor.

EAES 488 3 hrs.
Instrumental Analysis
 Scanning electron microscopy with energy-dispersive system. DC plasma analysis.
Prerequisite(s): CHEM 114 and EAES 220; or consent of the instructor.

EAES 492 1 hr.
Internship in the Earth and Environmental Sciences
 Off-campus participation in governmental or private-sector training program. Credit is contingent on submission of a final report. Satisfactory/Unsatisfactory grading only. May be repeated with approval. A combined maximum of 6 hours of credit in EAES 492 and EAES 396 may be applied toward the degree.
Prerequisite(s): Approval of the department.

EAES 494 4 hrs.
Current Topics in Earth and Environmental Sciences
 Discussion of current research topics in earth and environmental sciences. **Prerequisite(s):** Consent of the instructor.
Recommended background: Senior standing and 12 hours of advanced courses in earth and environmental sciences.

Economics

ECON 100 3 hrs.
Economic Decisions for Consumers and Families
 Principles of consumer education. Consumer decision making and consumer responsibility throughout the life cycle.

ECON 110 3 hrs.
Economics of Gender
 The role of gender in the economy; comparisons between men and women in time allocation patterns, education, and earnings; economic implications of diverse family structures. **Same as** GWS 110.

ECON 120 3 hrs.
Principles of Microeconomics
 Scarcity and choice, price system, decision making by consumers, individual and market demand, optimal input decisions by firms, perfect and imperfect competition, international trade. Credit is not given for ECON 120 if the student has credit for ECON 130. *Individual and Society, and U.S. Society course.*

ECON 121 3 hrs.
Principles of Macroeconomics
 Determinants of the level of economic activity, inflation, unemployment, interest rates, the roles of fiscal and monetary policies, exchange rates, international trade. Credit is not given for ECON 121 if the student has credit for ECON 130. *Individual and Society, and U.S. Society course.*

ECON 130 5 hrs.
Principles of Economics for Business
 The price system, supply and demand, decision making by consumers and firms, market structure, the level of economic activity, inflation, unemployment, international trade. Credit is not given for ECON 130 if the student has credit for ECON 120 or ECON 121. *Individual and Society, and U.S. Society course.*

ECON 201 1 hr.
Honors Seminar in Economics
 Selected issues in economics. Topics vary. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 4 hours with approval. Students may register in more than one section per term. Approval to repeat course granted by the instructor and the Honors College.
Prerequisite(s): Membership in the Honors College and consent of the instructor. Restricted to Honors students.

ECON 211 3 hrs.
Topics in Economics Taught in Spanish
 Applications of economic principles to analysis of selected economic issues, taught in Spanish. Specific topics to vary across semesters. **Prerequisite(s):** ECON 120 or ECON 130; and SPAN 303; or consent of the instructor.

ECON 218 4 hrs.
Microeconomics: Theory and Business Applications
 The price system, efficient resource allocation by consumers, firms, and government; perfect and imperfect competition; government regulation; ethics and the marketplace; business applications. Credit is not given for ECON 218 if the student has credit for ECON 220.
Prerequisite(s): ECON 130, or both ECON 120 and ECON 121; and MATH 160.

ECON 220 3 hrs.
Microeconomics: Theory and Applications
 The price system, consumer behavior, market demand, the firm's technology and costs, perfect and imperfect competition, government regulation, general equilibrium and resource allocation, applications. Credit is not given for ECON 220 if the student has credit for ECON 218.
Prerequisite(s): ECON 130 or ECON 120; and MATH 160.

ECON 221 3 hrs.
Macroeconomics in the World Economy: Theory and Applications
 Determinants of the level of economic activity, inflation, unemployment, international economics, impact of domestic and world economy on business decisions, applications of the theory. **Same as** INST 221.
Prerequisite(s): ECON 130, or both ECON 120 and ECON 121; and MATH 160.

ECON 270 4 hrs.
Statistics for Economics
 Descriptive statistics, probability theory, discrete and continuous probability distributions, sampling distributions, estimation, hypothesis testing. Credit is not given for ECON 270 if the student has credit for IDS 270.
Prerequisite(s): MATH 160.

ECON 320 3 hrs.
Law and Economics
 Economic analysis of law and legal processes; economic theory and applications of property law, contract law, and criminal law.
Prerequisite(s): ECON 218 or ECON 220; or consent of the instructor and either ECON 120 or ECON 130 for Pre-Law students and Criminology, Law and Justice majors.

ECON 322 3 hrs.
Managerial Economics
 Application of economic theory to decision making by business firms; demand and cost analysis, including demand forecasts; pricing policies; capital budgeting; production analysis; uses of operations research methods.

Prerequisite(s): ECON 218 or ECON 220; and IDS 270 or ECON 270.

ECON 323 3 hrs.
Business Conditions Analysis
 Application of economic theory to analysis of changes in aggregate income and employment; quantitative economic models and their uses in the prediction of aggregate and more refined levels of business activity; stabilization theory and policy.
Prerequisite(s): ECON 221, and either ECON 346 or IDS 371.

ECON 324 3 hrs.
Economic History of the United States
 Growth and structural changes in the American economy from colonial times to the present; special emphasis on contributing forces and factors.
Prerequisite(s): ECON 218 or ECON 220.

ECON 325 3 hrs.
Topics in Economic History
 Analysis of interaction between historical and economic factors in the evolution of economies. Specific topics to vary.
Prerequisite(s): ECON 218 or ECON 220 or ECON 221.

ECON 326 3 hrs.
History of Economic Thought
 Selected topics in the evolution of positive and normative economics from the seventeenth century to the present.
Prerequisite(s): ECON 218 or ECON 220 or ECON 221.

ECON 328 3 hrs.
Public Finance
 The economic effects of taxes and government expenditures on the allocation of resources and income distribution, public goods and externalities, public choice, the principles and application of cost-benefit analysis; optimal taxation. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 329 3 hrs.
Industrial Organization
 Theory of the structure of markets; measures of industrial concentration; monopoly power; mergers and takeovers; price discrimination; product differentiation, advertising; research and development. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 330 3 hrs.
Government and Business
 Theory and survey of U.S. market structure; antitrust policy and monopoly power; economic regulation including price and quality regulation; social regulation.
Prerequisite(s): ECON 218 or ECON 220.

ECON 331 3 hrs.
Labor Economics
 Application of economic theory to labor markets and related economic phenomena; earnings, employment, unemployment, worker mobility, migration, discrimination. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 332 3 hrs.
Urban Economics
 Survey of economic problems of cities; demand for and supply of housing and urban land; residential segregation; suburbanization; impact of government programs.
Prerequisite(s): ECON 218 or ECON 220.

ECON 333 3 hrs.
International Economics
 The balance of payments; fixed, flexible, and multiple exchange rates; capital flows; comparative advantage; tariffs and subsidies; the factor price equalization theorem. **Same as** INST 333.
Prerequisite(s): ECON 218 or ECON 220 or ECON 221 or INST 221.

ECON 334 3 hrs.
Economic Development
 Characteristics of poor countries, past experience and its relevance, analytical approaches, the role of exposure to foreign factors, planning, and other policies. **Same as** INST 334. **Prerequisite(s):** ECON 218 or ECON 220 or ECON 221 or INST 221.

ECON 339 3 hrs.
Monetary Theory
 Modern money supply and demand theory; the role of money in domestic and international financial markets and in determining economic growth and inflation. **Prerequisite(s):** ECON 221 or FIN 300.

ECON 342 3 hrs.
Regional Economics
 Location of economic activity, systems of cities, economic base theory, regional input-output analysis, neoclassical models of factor mobility and local area economic development.
Prerequisite(s): ECON 218 or ECON 220 or ECON 221.

ECON 345 3 hrs.
Introduction to Mathematical Microeconomics
 Mathematical analysis of microeconomic theory; mathematical treatment of price theory and the behavior of consumers and firms. Credit is not given for ECON 345 if the student has credit for MATH 180. **Prerequisite(s):** MATH 160 and ECON 120.

ECON 346 3 hrs.
Econometrics
 Specification of economic models; measurement of variables; estimation of economic relationships and testing of economic hypotheses; ordinary least squares regression and extensions.
Prerequisite(s): ECON 120 or ECON 121 or ECON 130; and either ECON 270 or IDS 270.

ECON 350 3 hrs.
Economics of Sports and Entertainment
 Analysis of economic issues in the sports and entertainment industries—industrial organization, financing, pricing, labor, and regulatory issues.
Prerequisite(s): ECON 218 or ECON 220.

ECON 351 3 hrs.**Economics of Education**

Treatment of educational sector as an industry; demand and supply of education; issues in educational finance; implications of educational outcomes for economic structure and growth.

Prerequisite(s): ECON 218 or ECON 220; or consent of the instructor and either ECON 120 or ECON 130 for students enrolled in the College of Education.

ECON 353 3 hrs.**Economic Demography**

Analysis of family decision making, focusing on the economics of time allocation, marriage, divorce, fertility, and mortality; relationship between population growth and economic development. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 354 3 hrs.**Health Economics**

Supply and demand for health services, the role of insurance in the healthcare industry, public policy issues, cost, and quality regulation. **Prerequisite(s):** ECON 218 or ECON 220; or consent of the instructor and either ECON 120 or ECON 130 for students enrolled in a health sciences college.

ECON 365 3 hrs.**Economics of Risk and Insurance**

Uncertainty, risk aversion, risk pooling; moral hazard and adverse selection; the economics of self-insurance, social insurance, and the private insurance industry. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 370 3 hrs.**Environmental Economics**

Analysis of major environmental problems as market and policy failures. Benefit-cost methods evaluated. Equity and efficiency aspects of market-based approaches to environmental policy evaluated. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 371 3 hrs.**Introduction to Urban Real Estate**

Introductory survey of urban real estate; business, legal, economic, and financial perspectives. **Same as FIN 371. Prerequisite(s):** ECON 218 or ECON 220.

ECON 390 3 hrs.**Special Topics in Economics**

Exploration of an area not covered in existing course offerings, or study in greater depth of a subject covered in an existing course. **Prerequisite(s):** Consent of the instructor.

ECON 395 0 hrs.**Research and Writing in Economics**

This course is used to satisfy the Writing-in-the-Discipline requirement. Development of analytical and writing skills in economics. Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per

term. Prerequisite(s):

Concurrent registration in a designated 300- or 400-level economics course.

ECON 399 1–3 hrs.**Independent Study in Economics**

Independent study in an area not covered by existing courses or exploration in greater depth of issues covered in a previously taken course. May be repeated up to 1 time(s). **Prerequisite(s):** 9 hours of economics courses at the 300-level or above, an overall GPA of at least 3.25/4.00, and consent of a faculty member and the director of undergraduate studies.

ECON 436 3 OR 4 hrs.**Mathematical Economics**

Application of mathematics to theories of consumer and producer behavior, determination of prices in markets, growth, and stability features of macroeconomic models. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): ECON 218 or ECON 220; and either ECON 345 or MATH 165 or MATH 180.

ECON 441 3 OR 4 hrs.**Teaching Methods in Economics**

Develops skills in preparing and giving lectures and examinations, computer usage and other aspects of teaching economics and consumer economics at secondary/higher education levels. 3 undergraduate hrs. 4 graduate hrs. Credit earned in ECON 441 may not be used to satisfy Economics credit requirements for the BA, BS, MA, or PhD degrees awarded by the Department of Economics. Credit earned in ECON 441 may be applied toward the degree as an elective. **Prerequisite(s):** For undergraduate students, two 300- or 400-level electives in economics; for graduate students in economics, one course in graduate-level microeconomics or macroeconomics.

ECON 442 1–4 hrs.**Topics in Economic Education**

Topics vary. Course content is announced prior to each term in which it is given. May be repeated for credit. Students may register for more than one section per term. Credit for this course may not be used to satisfy the minimum number of Economics credit hours needed for the BA, BS, MA, or PhD in Economics. It may be used as general elective credit for these degree programs or as the Economic Education course requirement for the Certificate in the Teaching of Economics. **Prerequisite(s):** Consent of the instructor. Prerequisites may vary according to topic.

ECON 450 3 OR 4 hrs.**Business Forecasting Using Time Series Methods**

Autoregressive, moving average, and seasonal models for time series analysis and business

forecasting. Forecasting using multi-variable transfer function models. **Same as IDS 476.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IDS 371 or ECON 346 or consent of the instructor.

ECON 472 3 OR 4 hrs.**Real Estate Finance**

Finance principles applied to real estate; financing of residential and income-producing real estate; real estate development finance; secondary mortgage market; taxation and real estate finance. **Same as FIN 472.** 3 undergraduate hrs. 4 graduate hrs. May not be used to satisfy the Economics credit requirement for the MA in Economics and PhD in Economics. Elective credit only will be applied toward these degrees. **Prerequisite(s):** ECON 218 or ECON 220.

ECON 475 3 OR 4 hrs.**Real Estate Markets and Valuation**

Real estate market analysis. Sales comparison, cost, and income approaches to estimating residential and commercial property values. Statistical procedures for real estate analysis. 3 undergraduate hrs. 4 graduate hrs. Course may not be applied toward the minimum required courses in Economics for the MA or PhD in Economics. **Prerequisite(s):** ECON 218 or ECON 220; and ECON 270 or IDS 270; or consent of the instructor.

ECON 495 4 hrs.**Competitive Strategy**

Multidisciplinary analysis of organizational strategy and policy, using case method and/or business simulation. Assignments involve extensive library research and oral and written reports. **Prerequisite(s):** Senior standing in the College of Business Administration and completion of all other CBA core courses, or consent of the instructor.

ECON 499 1–3 hrs.**Independent Study in Economics**

Independent study of a topic not covered in a graduate-level course. **Prerequisite(s):** Graduate standing and consent of the director of graduate studies and the instructor.

Education**ED 100 0–4 hrs.****Introduction to Urban Education**

Introductory and cross-disciplinary examination of issues related to education in urban America, with particular attention paid to policies and practices impacting diversity and equity in public schools. Students who wish to complete an optional fieldwork component register for 4 hours; other students register for 3 hrs. *Individual and Society, and U.S. Society course.*

ED 135 3 hrs.**Child and Youth Policies in Urban America**

Examines policies and practices for children and youth in urban America using sociological, psychological, and economic frameworks. Integrates disciplinary knowledge with educational policies and practices. *U.S. Society course.*

ED 194 1–4 hrs.**Special Topics in Education**

Introductory exploration of a topic not covered in existing course offerings. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

ED 200 3 hrs.**Education Policy Foundations**

Social, cultural, political, and intellectual forces that influence and shape educational policy in the learning process.

Prerequisite(s): Sophomore standing and approval of the Council on Teacher Education.

ED 205 0–4 hrs.**Introduction to Race, Ethnicity, and Education**

Introductory and cross-disciplinary examination of issues related to race, ethnicity, and cultural diversity in education. Students who wish to complete an optional fieldwork component register for 4 hours; other students register for 3 hrs. *Individual and Society, and U.S. Society course.*

ED 210 3 hrs.**The Educative Process**

Psychological factors in learning and instruction. Applications of behavioral psychology, information processing, humanism, and cognitive developmental theory. Issues in special education.

Prerequisite(s): Approval of the Council on Teacher Education.

ED 211 1 hr.**Special Topics in Education**

Topics vary. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 4 hours with approval. Approval to repeat course granted by the college. **Prerequisite(s):** Membership in the Honors College or approval of the College of Education.

ED 222 3 hrs.**Introduction to Gender, Sexuality, and Education**

Introductory and cross-disciplinary examination of issues related to gender and sexuality in education. *Individual and Society, and U.S. Society course.*

ED 250 1 hr.
Teaching and Learning in Schools I

Initial explorations of career choice, including what does it mean to teach, what does it mean to learn, and what are the various influences on both acts. Students conduct inquiries through fieldwork, group meetings, and analysis of readings. Fieldwork required. Must enroll concurrently in ED 256, ED 257, and EPSY 255.

ED 251 1 hr.
Teaching and Learning in Schools II

As a companion course to ED 250, ED 251 focuses on teaching and learning with emphasis on culture and language. Students will conduct inquiries through fieldwork in bilingual classrooms, small and large group meetings, and analysis of readings. Fieldwork required. Must enroll concurrently in ED 258.

ED 252 3 hrs.
Contemporary Controversies in U.S. Schools

Introductory and cross-disciplinary examination of contemporary controversies related to public education in the United States. *U.S. Society course.*

ED 257 3 hrs.
Foundations of Literacy Learning and Teaching

An analysis of theoretical and empirical foundations of reading and writing instruction focusing on K-8 children as literacy learners and the texts these children encounter and create as readers and writers. **Prerequisite(s):** Open only to Pre-Elementary Education standing.

ED 258 3 hrs.
Bilingualism and Cross-Cultural Issues in a Diverse Society

Provides an introduction to the key issues and concepts related to the study of bilingualism. Effective instruction of linguistically and culturally diverse students will be discussed. **Prerequisite(s):** Completion of the University Writing requirement. *Individual and Society, and U.S. Society course.*

ED 294 1-4 hrs.
Special Topics in Education

Introductory exploration of a topic not covered in existing course offerings. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

ED 301 3 hrs.
Literacy and Elementary Education

Foundations of reading and writing instruction. Influences and outcomes of school literacy experiences, role of literacy in society, effective instruction, and role of literacy in schooling. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 305 3 hrs.
Introductory Fieldwork in Elementary Education

The first field-based course in a sequence, focusing on observing and recording educational environments and children as learners. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 311 3 hrs.
Reading and Writing through the Elementary Grades

In-depth study of reading and writing instruction including emergent literacy, word recognition/spelling, reading comprehension, composition, literacy assessment, content area literacy, materials, and evaluation. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 312 3 hrs.
Teaching Elementary School Mathematics and Science

Issues of curriculum, instruction, and assessment which focus on hands-on science and the integration of science, mathematics, and language arts. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 315 8 hrs.
Fieldwork in Elementary Education II

The second field-based course is a sequence on curriculum development and teaching in urban schools. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 321 3 hrs.
Teaching and Learning for Children of Various Abilities and Cultures

The process of teaching and learning in elementary classrooms with children of various abilities and cultures. Social behavior, values, teaching/learning styles will be included. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 322 3 hrs.
Social Studies and Literature in the Elementary Grades

Curriculum, instruction, and assessment in teaching and learning of the social studies with literature emphases on curricular approaches, instructional strategies, and resources for teachers and students. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

ED 325 18 hrs.
Student Teaching in the Elementary Grades

The final field-based course in a sequence, focusing on improving teaching performance in various classroom settings.

Prerequisite(s): Admission to the Bachelor of Arts in Elementary Education program, completion of 100 clock hours of pre-student teaching field experiences, and approval of the College of Education.

ED 330 4 hrs.
Curriculum, Instruction, and Evaluation in the Secondary School

Contexts of teaching and learning in secondary schools. Principles and strategies for curriculum development; planning learning experiences; instruction; classroom organization, management, and student discipline; and evaluation. Field experience required. **Prerequisite(s):** Admission to an approved teacher certification program in secondary education, ED 200 and ED 210.

ED 340 3 hrs.
Teaching Language and Literacy in Elementary School I

A detailed analysis of elementary language and literacy learning, including word recognition, fluency, comprehension, and writing. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program. Successful completion of ED 257.

ED 341 3 hrs.
Teaching Language and Literacy in Elementary Schools II

A detailed description of the knowledge base required to orchestrate and implement language and literacy instruction in elementary schools, including ways to organize student grouping and to develop, monitor, and assess student inquiry. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program. Successful completion of ED 340.

ED 342 3 hrs.
Teaching and Learning Mathematics in the Elementary School

Helps prospective elementary teachers create a foundation from which they can develop an exemplary mathematics teaching practice. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program. MATH 140 and MATH 141 or equivalents completed.

ED 343 3 hrs.
Teaching and Learning Science in Elementary School

To engage in a variety of activities that will help prospective teachers prepare ways that are engaging and creative and

actively involve students in the construction of their own knowledge. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program.

ED 344 3 hrs.
Teaching and Learning Social Studies and Arts in Elementary School

Processes and relationships between social studies curriculum and issues of identity, diversity, and social justice, and to use arts as a vehicle to facilitate comprehension and appreciation.

Prerequisite(s): Junior standing or above and admission to the Bachelor of Arts in Elementary Education program.

ED 345 4 hrs.
Multiculturalism, Bilingualism, and Diversity in Elementary School

This course provides prospective teachers with information and experiences that support teaching and learning in diverse settings.

Prerequisite(s): Junior standing or above and admission to the Bachelor of Arts in Elementary Education program.

ED 350 4 hrs.
Orchestrating Teaching and Learning I

Seminar for students to discuss field experiences, transform lessons learned to students, and craft essential elements of teaching, such as preparing for instruction, assessment, classroom/school cultures. Fieldwork required. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program.

ED 351 4 hrs.
Orchestrating Teaching and Learning II

Seminar for students to discuss field experiences, transform lessons learned to students, and craft essential elements of teaching, e.g., preparing for instruction, assessment, classroom/school cultures. Fieldwork required. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program. Junior standing or above. Successful completion of ED 350.

ED 352 2 hrs.
Technology Integration in Elementary School I

Works in tandem with literacy and math methods courses designed to introduce cross-curricular computer tools that can be applied within this context. Emphasis placed on integrating common software and hardware tools to achieve content standards. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program.

ED 353 2 hrs.
Technology Integration in Elementary School II
Works in tandem with science and social studies courses designed to introduce cross-curricular computer tools that can be applied within this context. Emphasis placed on integrating common software and hardware tools to achieve content standards. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program. Successful completion of ED 352.

ED 394 1–4 hrs.
Special Topics in Education
Exploration of a topic not covered in existing course offerings. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

ED 396 1–4 hrs.
Independent Study
For students who wish to do independent study on specific educational processes or independently to carry on projects related to education or extensive reading assignments. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** A written proposal for faculty approval and junior standing.

ED 402 3 hrs.
Philosophy of Education and Urban School Policy
Selected social and education philosophies and their impact on urban school curriculum design, school organization, and control.

ED 403 3 hrs.
Policy Issues in the History of American Education
Political, economic, and cultural influences shaping the development of American education policy; emphasis on issues of education theory and practice in their historical settings.

ED 421 3 hrs.
Advanced Educational Psychology
Examines current theory and research on the teaching-learning process with particular attention to general learning and curriculum-relevant problem solving skills. **Prerequisite(s):** ED 210 or graduate standing.

ED 422 3 hrs.
Advanced Developmental Psychology and Educational Processes
Focuses on cognitive and social development from birth to adolescence. Examines relations between development, learning, and educational processes. **Same as PSCH 422.** **Prerequisite(s):** PSCH 100 and any one from ED 210, PSCH 259, PSCH 320; or graduate standing and consent of the instructor.

ED 431 3 hrs.
Improving Learning Environments
Analysis of structural, normative, and social dimensions of learning environments and their relationships to student learning. Exploration of change processes to improve those environments. **Prerequisite(s):** Graduate standing or consent of the instructor.

ED 432 5 hrs.
Instruction and Evaluation in Secondary Education
Instructional planning and curriculum design; strategies for instruction and classroom management; forms of formative and summative evaluation; and professional development issues. Fieldwork required. **Prerequisite(s):** Completion of Education Core Courses in undergraduate teacher certification program: ED 200 and ED 210; in graduate teacher certification program: ED 402 or ED 403 or EDPS 401; and ED 421 or ED 422 or ED 445.

ED 445 3 hrs.
Adolescence and the Schools
Physiological, intellectual, and social development of adolescence. Relations between aspects of adolescent development and the academic and social demands of secondary schools. **Prerequisite(s):** ED 210 or the equivalent, or graduate standing.

ED 450 15 hrs.
Composing a Teaching Life I
Begins the capstone experience of the program, full-time student teaching in an elementary classroom. It is accompanied with a weekly seminar to discuss experiences, reason about learning, and reflect on students' own learning. **Prerequisite(s):** Senior standing or above and admission to the Bachelor of Arts in Elementary Education program.

ED 451 5 hrs.
Composing a Teaching Life II/Senior Reflective Seminar
Provides the capstone experience for students, with a weekly Senior Reflective Seminar in which students reflect upon their teaching through the lenses of the five program curricular strands. Fieldwork required. **Prerequisite(s):** Admission to the Bachelor of Arts in Elementary Education program. Senior standing and successful completion of ED 450.

ED 461 3 hrs.
Political and Sociocultural Perspectives on Special Education
Students will examine issues of access and equity through legislation, litigation, and sociocultural perspectives and be introduced to major theoretical frameworks that influence special education programs. **Same as SPED 461.** Fieldwork required.

ED 470 0–12 hrs.
Educational Practice with Seminar I
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the college. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the college or department of specialization.

ED 471 12 hrs.
Educational Practice with Seminar II
The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the college. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in ED 470, and approval of the college or department of specialization.

ED 472 3 hrs.
Promoting Academic and Prosocial Behavior I
The importance of school-wide and classroom structure and climate in the educational process. Strategies to promote academic success and desired social behavior. **Same as SPED 472.** Fieldwork required. **Prerequisite(s):** SPED 461 or ED 461 or the equivalent or consent of the instructor.

ED 473 3 hrs.
Teaching Math and Science with Adaptations
Provides prospective teachers with assessment strategies and a range of adaptations, modifications, and interventions in math and science for students with disabilities. **Same as SPED 473.** Fieldwork required. **Prerequisite(s):** SPED 461 or ED 461 or the equivalent or consent of the instructor.

Educational Policy Studies

EDPS 104 3 hrs.
Race, Place, and Schooling: African Americans and Education
Examination of the social, political, cultural, and economic factors shaping African American's educational experiences in the United States historically and currently. **Same as AAST 104.** *Individual and Society, and U.S. Society course.*

EDPS 361 3 hrs.
Education in Urban Context
Cross-disciplinary, critical analysis of relationships between public schools and their urban contexts, with attention to implications for teaching and learning.

Prerequisite(s): Senior standing or above and admission to the Bachelor of Arts in Elementary Education program.

EDPS 412 3 OR 4 hrs.
Politics of Urban Education
Relations between school governance and politics. The role of educational interest groups, school boards, professional educators, and citizens in formulation and execution of educational policy. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

EDPS 449 3 hrs.
Early Childhood/Early Childhood Special Ed: Perspectives, Policies, and History
Perspectives, policies, history, and foundations of early childhood education and early childhood special education. Emphasis on the effects of changing economic, political, legal, social, and views of human development. **Same as EPSY 449 and SPED 449.**

EDPS 453 3 OR 4 hrs.
Topics in Educational Policy Studies
Topics are announced at the time the class is scheduled. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs.

Educational Psychology

EPSY 255 3 hrs.
Child Development and Elementary Education
Assists future teachers in understanding children's academic competence, self-determination, and affiliation needs and learning to help children meet their needs. **Prerequisite(s):** Open only to Pre-Elementary Education standing.

EPSY 360 2 hrs.
Learning, Cognition, and Student Assessment
Research and theory on learning and cognition applied to teaching and assessment of students of diverse cultural backgrounds. **Prerequisite(s):** Senior standing or above and admission to the Bachelor of Arts in Elementary Education program. Successful completion of EPSY 255.

EPSY 396 1–4 hrs.
Independent Study
Students carry out independent study under the direction of educational psychology faculty member. **Prerequisite(s):** Sophomore standing or above; and consent of the instructor.

EPSY 415 3 hrs.
Urban Youth Fieldwork
Experience in planning, teaching in, and evaluating innovative physical activity-based urban youth programs. Accompanying seminar to examine related literature and explore the interface between theory and practice. May be repeated to a maximum of 6 hrs. Previously listed as CIE 415. Fieldwork required. **Prerequisite(s):** Junior standing or above; and consent of the instructor. Requires interview and placement.

EPSY 420 3 OR 4 hrs.
Social Development of Urban Children
General principles of social development and socialization during childhood and the factors common to urban children that illustrate and modify these principles. **Same as** PSCH 420. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Admission to a graduate program in Education or Psychology; or consent of the instructor.

EPSY 429 3 OR 4 hrs.
Constructivist Approaches to Development: Piaget and Vygotsky
Piaget's and Vygotsky's theories of development of knowledge. Empirical and logico-mathematical forms of knowledge. Thought and action. Thought and language. **Same as** PSCH 429. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ED 422 or PSCH 422 or the equivalent and graduate standing in Education or graduate standing in Psychology or consent of the instructor.

EPSY 446 3 hrs.
Characteristics of Early Adolescence
Physiological, social, emotional, and cognitive development of early adolescence. The relationship between these developmental characteristics and success in the middle grades. **Same as** PSCH 423. **Prerequisite(s):** ED 210 or ED 421 or ED 422 or PSCH 422 or the equivalent, and approval of the College of Education; or admission to the PhD in Psychology program; or consent of the instructor.

EPSY 447 3 hrs.
Adolescence in Urban Contexts
Overview of physiological, social, and cognitive development and how the urban context shapes development. The course utilizes an assets-based approach that challenges stereotypes and normative assumptions regarding the adolescents in urban contexts. **Prerequisite(s):** Introductory course work in psychology, child development, and social development; or admission to the MED or doctoral program in Educational Psychology.

EPSY 449 3 hrs.
Early Childhood/Early Childhood Special Education: Perspectives, Policies and History
Perspectives, policies, history, and foundations of Early Childhood Education and Early Childhood Special Education. Emphasis on the effects of changing economic, political, legal, social, and views of human development. **Same as** SPED 449 and EDPS 449.

EPSY 465 3 hrs.
Cognitive Development and Disabilities
Theory and research on cognitive development in children with disabilities from infancy through adolescence, in the context of typical development. Models for cognitive assessment and intervention. **Same as** SPED 465. Fieldwork required. **Prerequisite(s):** SPED 461 or ED 461 or the equivalent or consent of the instructor.

EPSY 466 3 hrs.
Language Development, Diversity, and Disabilities
Theory and research on language development in children with disabilities, in the context of typical development. Models for language assessment and intervention. **Same as** SPED 466. Fieldwork required. **Prerequisite(s):** SPED 461 or ED 461 or the equivalent or consent of the instructor.

EPSY 467 3 hrs.
Social and Emotional Development and Disabilities
Exploration of the risk factors and different theoretical approaches associated with the social and emotional development of youth ages 5–21 with and without disabilities. **Same as** SPED 467. Fieldwork required. **Prerequisite(s):** SPED 461 or ED 461 or the equivalent or consent of the instructor.

EPSY 494 1–4 hrs.
Topics in Educational Psychology
Seminar on a preannounced topic focusing on methodology, research, and educational implications of recent models of learning, problem solving, and thinking. May be repeated to a maximum of 12 hrs. **Prerequisite(s):** Consent of the instructor.

EPSY 496 1–4 hrs.
Independent Study
Students carry out independent study under the direction of educational psychology faculty member. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

Electrical and Computer Engineering

ECE 100 3 hrs.
The Digital Information Age
A-to-D conversion; logic; models; coding; transmission; processing; applications (such as CD player, digital speech and images, bar-code reader, credit card, fax, modem, cellular telephone, Internet). No graduation credit for students in the following: BS in Electrical Engineering. Previously listed as EECS 100. **Prerequisite(s):** MATH 090 or the equivalent.

ECE 115 4 hrs.
Introduction to Electrical and Computer Engineering
Concepts and applications of electrical and computer engineering including: basic circuits, fundamental electromagnetics, electronic devices, sensors, control, digital logic, computer organization, programming. Extensive computer use required. Will use PSPICE, MATLAB, C programming. **Prerequisite(s):** Credit or concurrent registration in MATH 180.

ECE 210 3 hrs.
Electrical Circuit Analysis
Linear circuit analysis: networks, network theorems, dependent sources, operational amplifiers, energy storage elements, transient analysis, sinusoidal analysis, frequency response, filters. Laboratory. Credit is not given for ECE 210 if the student has credit for ECE 225. Previously listed as EECS 210. **Prerequisite(s):** PHYS 142 and credit or concurrent registration in MATH 220.

ECE 225 4 hrs.
Circuit Analysis
Electric circuit elements; Ohm's Law; Kirchhoff's laws; transient and steady-state analysis of circuits; Laplace transform methods; network theorems. Laboratory. Credit is not given for ECE 225 if the student has credit for ECE 210. Previously listed as EECS 210. **Prerequisite(s):** MATH 220; and grade of C or better in PHYS 142; and grade of C or better in ECE 115.

ECE 265 4 hrs.
Introduction to Logic Design
Number systems; binary arithmetic; Boolean/logic functions; Boolean algebra; logic gates, their CMOS design; function minimization, analysis, and synthesis of combinational and sequential circuits. Credit is not given for ECE 265 if the student has credit for CS 266 or CS 366. Previously listed as EECS 265. Laboratory. **Prerequisite(s):** MATH 180 and grade of C or better in ECE 115.

ECE 267 3 hrs.
Computer Organization I
Introduction to computer organization and assembly language programming. Memory, CPU, and I/O organization. Programming techniques and tools. Credit is not given for

ECE 267 if the student has credit for CS 266 or CS 366. Previously listed as EECS 365.

Prerequisite(s): CS 102 or CS 107 or CS 108.

ECE 310 3 hrs.
Discrete and Continuous Signals and Systems
Signals; systems; convolution; discrete and continuous Fourier series and transforms; Z-transforms; Laplace transforms; sampling; frequency response; applications; computer simulations. Previously listed as EECS 310. **Prerequisite(s):** MATH 220 and credit or concurrent registration in ECE 225; or credit or concurrent registration in ECE 210 for non-ECE students.

ECE 311 4 hrs.
Communication Engineering
Continuous-time signals and spectra; amplitude and angle modulation, sampling and quantization theory; digital pulse modulation, error probability, commercial broadcasting practices. Previously listed as EECS 311. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 317 4 hrs.
Digital Signal Processing I
Sampling theorem; discrete signals and systems; discrete time Fourier transform; DFT; FFT; IIR and FIR digital filter design; stability; DSP applications. Laboratory. Previously listed as EECS 417. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 322 3 hrs.
Communication Electromagnetics
Plane waves in various media. Polarization and Stoke's parameters. Scalar and vector potentials. Guided wave propagation. Radiation. Linear antennas and antenna parameters. Linear arrays. Credit is not given for this course if the student has credit for EECS 322. Previously listed as EECS 322. **Prerequisite(s):** Grade of C or better in ECE 225.

ECE 333 4 hrs.
Computer Communication Networks I
Overview of networks, physical layer, data link protocols, multiple access, local area networks, network layer, Internet, ATM, routing, congestion control, IP protocol, transport layer. Laboratory. Credit is not given for ECE 333 if the student has credit for CS 450. Previously listed as ECE 433. **Prerequisite(s):** ECE 341 and CS 107.

ECE 340 4 hrs.
Electronics I
Operational amplifiers. Semiconductor junctions. Bipolar and field-effect transistors. Simple transistor amplifier and switching applications. Introduction to digital logic circuits. Laboratory experience. Previously listed as EECS 340. **Prerequisite(s):** Grade of C or better in ECE 225.

ECE 341 3 hrs.
Probability and Random Processes for Engineers
 Probability, random variables, discrete and continuous distributions, transformation of random variables, expectation, generating functions, statistical inference, hypothesis testing, estimation, random processes, stationarity, applications. Credit is not given for ECE 341 if the student has credit for IE 342. **Prerequisite(s):** ECE 310.

ECE 342 4 hrs.
Electronics II
 Differential amplifiers. Feedback amplifiers. Frequency response, stability, and compensation of amplifiers. Circuit implementation of logic gates in various logic families. Bistable and memory circuits. Laboratory. Previously listed as EECS 342. **Prerequisite(s):** ECE 340.

ECE 346 4 hrs.
Solid-State Device Theory
 Introduction to semiconductors, energy bands, electron and hole transport mechanisms in semiconductor devices, recombination and generation, P-N Junctions. Introduction to metal-oxide-semiconductor field effect transistors. Practical laboratory. Previously listed as EECS 346. **Prerequisite(s):** MATH 220 and a grade of C or better in ECE 115 and a grade of C or better in PHYS 142.

ECE 347 3 hrs.
Integrated Circuit Engineering
 Introduction to processing technology of integrated circuits: thin film deposition, doping, oxidation, epitaxy, and lithography. Design, layout, assembly, testing, and yield. Design project. Previously listed as EECS 347. **Prerequisite(s):** CHEM 112 and a grade of C or better in ECE 225.

ECE 350 4 hrs.
Principles of Automatic Control
 Transfer function; block diagrams; flow graphs; state space canonic forms; stability analysis; steady state and transient analysis; feedback control; continuous to discrete conversion; digital control. Previously listed as EECS 450. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 366 4 hrs.
Computer Organization II
 Circuit technology, clocking, datapath design, controller design including timing chains and microprogramming, memory systems design in caches, virtual memory, multiple memory modules, I/O design including disk, serial and network communications. Credit is not given for ECE 366 if the student has credit for CS 266 or CS 366. Previously listed as EECS 366. Laboratory. **Prerequisite(s):** ECE 267 and a grade of C or better in ECE 265. To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

ECE 367 4 hrs.
Microprocessor-Based Design
 Microprocessor architecture; microprogrammed machines; programmer's model; control signals and timing; system buses; parallel and serial interfacing; interrupt processing; I/O devices; memory devices; direct memory access; assembly language. Laboratory. Previously listed as EECS 367. **Prerequisite(s):** ECE 267; and a grade of C or better in ECE 265 or a grade of C or better in CS 366.

ECE 368 4 hrs.
CAD-Based Digital Design
 CAD tools and VHDL programming for combinational and sequential circuit design, FPGA implementation of complex circuits, design project using CAD tools, FPGA implementations. Laboratory. Credit is not given for ECE 368 if the student has credit for CS 469. **Prerequisite(s):** ECE 366.

ECE 392 2-4 hrs.
Undergraduate Research
 Research under close supervision of a faculty member. Satisfactory/Unsatisfactory grading only. Previously listed as EECS 392. **Prerequisite(s):** Consent of the instructor.

ECE 396 2 hrs.
Senior Design I
 Introduction to the principles and practice of product design: specifications, evaluation of design alternatives, technical reports, and oral presentations. Independent design projects. Previously listed as EECS 396. **Prerequisite(s):** ENGL 161. Open only to seniors.

ECE 397 2 hrs.
Senior Design II
 Application of engineering principles and optimization to the solution of the design problem initiated in Electrical and Computer Engineering 396. Implementation and testing of the design. Previously listed as EECS 397. **Prerequisite(s):** ECE 396.

ECE 400 3 OR 4 hrs.
Introduction to Microelectromechanical Systems
 Definition, classification, and case studies of transducers, sensors, and actuators. Microfabrication methods for microelectromechanical systems (MEMS). Design, simulation, and modeling of MEMS. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 400. **Prerequisite(s):** ECE 346.

ECE 401 3 OR 4 hrs.
Quasi-Static Electric and Magnetic Fields
 Static electric and magnetic fields. Material description, boundary value problems. Field energy, its conversion, and scaling laws. Quasi-static fields, field diffusion, eddy currents, energy losses. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 401. **Prerequisite(s):** ECE 322.

ECE 407 3 OR 4 hrs.
Pattern Recognition I
 The design of automated systems for detection, recognition, classification, and diagnosis. Parametric and nonparametric decision-making techniques. Applications in computerized medical and industrial image and waveform analysis. **Same as** BIOE 407. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 220.

ECE 410 3 OR 4 hrs.
Network Analysis
 Matrix algebra for network analysis, network parameters, macro-modeling, high-frequency measurements, network functions, and theorems. Topics in computer-aided analysis. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 410. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 412 3 OR 4 hrs.
Introduction to Filter Synthesis
 Fundamentals of network synthesis, filter approximations, and frequency transformations. Active filter synthesis using bilinear and biquad circuits. Topics in computer-aided design. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 412. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 415 3 OR 4 hrs.
Image Analysis and Computer Vision I
 Image formation, geometry, and stereo. Two-dimensional image analysis by Fourier and other 2-D transforms. Image enhancement, color, image segmentation, compression, feature extraction, object recognition. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 415. **Prerequisite(s):** MATH 310 or a grade of C or better in ECE 310.

ECE 417 0-5 hrs.
Digital Signal Processing II
 Computer-aided design of digital filters; quantization and round-off effects; FFT algorithms; number-theoretic algorithms; multirate signal processing; DSP architectures and programming. 4 undergraduate hrs. 5 graduate hrs. **Prerequisite(s):** ECE 317.

ECE 418 3 OR 4 hrs.
Statistical Digital Signal Processing
 Stochastic signal models, LMS identification, identification of signals from noise, Wiener filtering, blind separation of mixed signal, discrete Wavelet Transforms, compression and denoising, cepstral analysis. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 418. **Prerequisite(s):** ECE 317 and ECE 341.

ECE 421 3 OR 4 hrs.
Introduction to Antennas and Wireless Propagation
 Potential, antenna parameters, radiation from linear wires and loops, impedance, arrays, communication links and path loss, tropospheric propagation, fading

and diversity. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 421. **Prerequisite(s):** ECE 225 and ECE 322.

ECE 423 3 OR 4 hrs.
Electromagnetic Compatibility
 EMC requirements for electronic systems. Nonideal behavior of components. Radiated and conducted emissions. Susceptibility. Coupling and shielding. Electrostatic discharge. System design for EMS. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 423. **Prerequisite(s):** ECE 320 and ECE 322.

ECE 424 0-5 hrs.
RF and Microwave-Guided Propagation
 Maxwell's equations, transmission lines, Smith chart, strip lines, rectangular and circular waveguides, TE and TM waves, wave impedance, resonators, two-port parameters, power and energy considerations. 4 undergraduate hrs. 5 graduate hrs. **Prerequisite(s):** ECE 225 and ECE 322.

ECE 427 3 OR 4 hrs.
Modern Linear Optics
 Geometrical optics, wave optics, two-dimensional Fourier analysis, scalar diffraction theory, Fourier transforming properties of lenses, coherent and incoherent images, holography, electromagnetic optics, polarization and crystal optics, resonators. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 427. **Prerequisite(s):** ECE 310 and ECE 322.

ECE 431 0-5 hrs.
Analog Communication Circuits
 Introduction to radio frequency circuit design: narrowband transistor amplifiers, impedance matching networks, oscillators, mixers, amplitude and frequency modulation/demodulation, phase-lock loop circuits, amplifier noise and stability analysis. Laboratory. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECS 431. **Prerequisite(s):** ECE 311 and ECE 340.

ECE 432 3 OR 4 hrs.
Digital Communications
 Source coding, quantization, signal representation, channel noise, optimum signal reception, digital modulation: ASK, PSK, FSK, MSK, M-ary modulation. Probability of error. Inter-symbol interference. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 432. **Prerequisite(s):** ECE 311 and ECE 341.

ECE 434 3 OR 4 hrs.
Multimedia Systems
 Multimedia systems; compression standards; asynchronous transfer mode; Internet; wireless networks; television; videoconferencing; telephony; applications. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** ECE 333.

ECE 435 3 OR 4 hrs.
Wireless Communication Networks

Radio technology fundamentals; channel and propagation models; channel multiple access technologies; wireless mobile communication fundamentals; generic wireless mobile network; cellular/PCS wireless mobile network standards. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 435. **Prerequisite(s):** ECE 432 and ECE 333.

ECE 436 3 OR 4 hrs.
Computer Communication Networks II

Explores integrated network architecture of service, control signaling and management, examples of high-speed LAN/WAN, next generation Internet and mobile wireless network. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** ECE 333.

ECE 437 3 OR 4 hrs.
Wireless Communications

Cellular concept, frequency reuse, mobile radio propagation, channel fading, noise in analog communications, mobile radio channel equalization, multiple access techniques (FDMA, TDMA, CDMA), wireless networking. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ECE 311 and ECE 341.

ECE 442 0-5 hrs.
Power Semiconductor Devices and Integrated Circuits

Covers the physics of devices encountered in the power-electronic and switching converter systems. 4 undergraduate hrs. 5 graduate hrs. Credit is not given for ECE 442 if the student has credit for EECS 442. Previously listed as EECS 442. ECE 442 is a supplement for ECE 445 and ECE 545. **Prerequisite(s):** ECE 342 and ECE 346.

ECE 445 0-5 hrs.
Analysis and Design of Power Electronic Circuits

Analysis of different isolated and nonisolated power-converter topologies, understanding of power-converter components, switching schemes. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECS 445. **Prerequisite(s):** ECE 342 and a grade of C or better in ECE 310.

ECE 448 3 OR 4 hrs.
Transistors

Bipolar junction transistors, electronic processes in surface-controlled semiconductor and dielectric devices. Metal oxide semiconductor field effect transistors, surface and interface effects, diode lasers, integrated optoelectronic devices. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 448. **Prerequisite(s):** ECE 346.

ECE 449 0-5 hrs.
Microdevices and Micromachining Technology
Microfabrication techniques for microsensors, microstructures,

and microdevices. Selected examples of physical/chemical sensors and actuators. Simulation experiments. Laboratory. **Same as** ME 449. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECS 449. **Prerequisite(s):** ECE 347.

ECE 451 3 OR 4 hrs.
Control Engineering

State-space representation of systems; realization theory; stability; performance; modern control design techniques, including: fuzzy, learning, adaptive, and nonlinear control. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 451. **Prerequisite(s):** ECE 350.

ECE 452 3 OR 4 hrs.
Robotics: Algorithms and Control

Kinematic and dynamic modeling of robots; configuration space; motion planning algorithms; control of robots; sensors and perception; reasoning; mobile robots. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CS 201; and a grade of C or better in ECE 210 or a grade of C or better in ECE 225.

ECE 458 0-4 hrs.
Electromechanical Energy Conversion

Electromagnetic forces and torque; magnetic circuits and transformers; DC machines; three-phase AC synchronous and induction machines; laboratory-demonstrations. Projects are required. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 458. **Prerequisite(s):** Grade of C or better in ECE 225.

ECE 465 3 OR 4 hrs.
Digital Systems Design

Switching algebra, combinational circuits, Mux, ROM, DCD, PLA-based designs, advanced combinational circuit minimization techniques, synchronous and asynchronous sequential circuit synthesis (minimization, hazards, races, state assignment) testing. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 465. **Prerequisite(s):** Grade of C or better in PHYS 142; and a grade of C or better in ECE 265 or a grade of C or better in CS 366.

ECE 466 3 OR 4 hrs.
Advanced Computer Architecture

Design and analysis of high performance uniprocessors. Topics include arithmetic: multiplication, division, shifting; processor: pipelining, multiple function units. Instruction sets; memory: caches, modules; virtual machines. **Same as** CS 466. 3 undergraduate hrs. 4 graduate hrs. Previously listed as EECS 466. **Prerequisite(s):** ECE 366 or CS 366.

ECE 467 0-5 hrs.
Introduction to VLSI Design
MOS, CMOS circuits, VLSI technology, CMOS circuit characterization and evaluation. Static and dynamic MOS circuits, sys-

tem design, faults, testing, and symbolic layout. Laboratory. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECS 467. **Prerequisite(s):** ECE 340.

ECE 468 0-5 hrs.
Analog and Mixed-Signal VLSI Design

Elementary transistor stages and analog components; low-power design; comparison of bipolar, CMOS, and BiCMOS; s-parameters and high-frequency ASIC design and modeling; RF wireless communication system components; behavioral modeling. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECS 468. **Prerequisite(s):** ECE 467.

ECE 469 3 OR 4 hrs.
Computer Systems Design

Analysis and modeling of digital systems; hardware description languages; CAD tools for simulation, synthesis, and verification of computer systems. Project: a simple processor design. 3 undergraduate hrs. 4 graduate hrs. **Same as** CS 469. Previously listed as EECS 469. **Prerequisite(s):** CS 366; or ECE 366 and ECE 368.

ECE 491 1-4 hrs.
Seminar

Topics of mutual interest to a faculty member and a group of students. Offered as announced by department bulletin or the *Schedule of Classes*. May be repeated. Previously listed as EECS 491. **Prerequisite(s):** Consent of the instructor.

ECE 493 2-4 hrs.
Special Problems

Special problems or reading by special arrangement with the faculty. No graduation credit for students in the following: MS in Electrical and Computer Engineering or PhD in Electrical and Computer Engineering. Previously listed as EECS 493. **Prerequisite(s):** Consent of the instructor.

Engineering**ENGR 100 1 hrs.**
Engineering Orientation

A general orientation course on careers in the engineering profession. Discussion of college advising procedures. Required of all engineering students. Satisfactory/Unsatisfactory grading only. No graduation credit. Should be taken in the first semester after acceptance into the College of Engineering. **Prerequisite(s):** Admission to the College of Engineering.

ENGR 189 1 hrs.
Minority Engineering Freshman and Transfer Student Orientation

Orientation for undergraduate minority engineering students; seminars, lectures and workshops by faculty, upperclass students, administration, and industry representatives on topics relevant to ethnic minority groups. Satisfactory/Unsatisfactory grading only. No graduation credit.

Should be taken in the first semester after acceptance into the College of Engineering. **Prerequisite(s):** Admission to the College of Engineering.

ENGR 289 0 hrs.
Cooperative Engineering Practice

Off-campus participation in a governmental or industrial training program. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Enrollment in the Cooperative Engineering Program.

ENGR 400 3 OR 4 hrs.
Engineering Law

Overview of the legal system. Legal principles affecting the engineering profession. Professional ethics in engineering. Intellectual property law. Basic contract and tort principles. Environmental law. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Senior standing or above.

ENGR 401 3 OR 4 hrs.
Engineering Management

Theory, strategy, and tactics of the use of project management, including project planning, matrix management concept, and team meetings. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** Senior standing or above.

ENGR 402 3 OR 4 hrs.
Intellectual Property Law

Patent, copyright, trade secret, mask work, and cyber-squatting legal and procedural principles; protection for novel software, biotech inventions, and business methods; and trademark protection for domain names. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** Senior standing or above.

ENGR 403 3 OR 4 hrs.
Reliability Engineering

Probability overview; statistics overview; system reliability modeling and prediction-static methods; system reliability modeling and prediction-dynamic methods; maintainability and availability; reliability optimization; and risk analysis. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** Senior standing or above.

ENGR 404 3 hrs.
Entrepreneurship

Identify new business opportunities in technology, market value assessment, competition, business plan, funding acquisition, intellectual property protection, and case studies. **Prerequisite(s):** Open only to seniors; and consent of the instructor.

ENGR 420 1 hr.
Engineering for Success
Interactive seminars will be given by persons with engineering degrees having shown high achievement in either engineering or nonengineering endeavors. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Junior standing or above.

ENGR 494 3 OR 4 hrs.
Special Topics in Engineering
Course on multidisciplinary engineering topics that vary from term to term depending on current student and instructor interests. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

English

ENGL 070 3 hrs.
Introduction to Academic Writing for the Nonnative Speakers of English
This preparatory class for nonnative speakers for English emphasizes the second-language challenges for writing presented by syntax (structure), semantics (meaning), and pragmatics (use). Satisfactory/Unsatisfactory grading only. May be repeated up to 1 time(s). No graduation credit. Previously listed as ENGL 150. Based on final course assessment, the English department may recommend a waiver of ENGL 160. Students who receive this waiver earn three hours of proficiency credit for ENGL 160 and placement into ENGL 161. **Prerequisite(s):** ESL 060 or eligibility as determined by performance on the department placement test.

ENGL 071 3 hrs.
Introduction to Academic Writing
This preparatory course emphasizes academic reading and writing with a focus on argument, sentence-level grammar, and rhetorical effectiveness. Satisfactory/Unsatisfactory grading only. May be repeated up to 1 time(s). No graduation credit. Previously listed as ENGL 152. Based on final course assessment, the English department may recommend a waiver of ENGL 160. Students who receive this waiver earn three hours of proficiency credit for ENGL 160 and placement into ENGL 161. **Prerequisite(s):** Eligibility determined by performance on the department placement test.

ENGL 101 3 hrs.
Understanding Literature
Reading and analysis of texts from a variety of literary forms and periods. Special attention to methods for determining literary meaning. *Creative Arts course.*

ENGL 102 3 hrs.
Introduction to Film
Representative selections from a variety of periods and forms. Development of analytical skills in the reading of film. **Same as** MOV1 102. *Creative Arts course.*

ENGL 103 3 hrs.
English and American Poetry
Reading and analysis of a representative selection from a variety of periods and forms in poetry. *Creative Arts course.*

ENGL 104 3 hrs.
English and American Drama
Reading and analysis of representative selections from a variety of periods and forms in drama. *Creative Arts course.*

ENGL 105 3 hrs.
English and American Fiction
Reading and analysis of representative selections from a variety of periods and forms in fiction. *Creative Arts course.*

ENGL 106 3 hrs.
English and American Prose
Reading and analysis of representative selections from a variety of periods and forms of nonfiction prose. *Creative Arts course.*

ENGL 107 3 hrs.
Introduction to Shakespeare
Introductory survey of Shakespeare's major plays and poems. *Creative Arts, and Past course.*

ENGL 108 3 hrs.
British Literature and British Culture
Analysis of novels, plays, and poems from 1800 to the present that reflect the distinctive characteristics of British culture. *Creative Arts course.*

ENGL 109 3 hrs.
American Literature and American Culture
Analysis of interconnections between American literature and American culture. Content varies. May not be repeated for credit. *Creative Arts, and U.S. Society course.*

ENGL 110 3 hrs.
English and American Popular Genres
Introduction to the textual analysis of pulp literature, film, television, advertising, and other popular discourses. *Creative Arts, and Individual and Society course.*

ENGL 111 3 hrs.
Women and Literature
Introduction to reading English and American literature with a focus on gender, genre, and women's roles. **Same as** GWS 111. *Creative Arts, and Individual and Society course.*

ENGL 112 3 hrs.
Introduction to Native American Literatures
An introduction to the oral and written literatures of American Indians. **Same as** NAST 112. *Creative Arts, and U.S. Society course.*

ENGL 113 3 hrs.
Introduction to Multiethnic Literatures in the United States
An introduction to the literatures of racial and ethnic groups in the United States. *Creative Arts, and U.S. Society course.*

ENGL 114 3 hrs.
Introduction to Colonial and Postcolonial Literature
An introduction to the literature in English most directly representative of the historical processes of colonialism and decolonization that have shaped the modern world. *Creative Arts, and World Cultures course.*

ENGL 115 3 hrs.
Understanding the Bible as Literature
A broad overview of various literary genres in the Bible, such as origin narrative, historical narrative, poetry, wisdom literature, prophetic/apocalyptic literature, parable, and epistle. **Same as** JST 115 and RELS 115. *Creative Arts, Past, and World Cultures course.*

ENGL 116 3 hrs.
Jewish American Literature of the 20th Century
Introduction to ways of analyzing literature within the specific thematic and cultural lens of Judaism, focusing on major works of literature in a variety of genres throughout the twentieth century. **Same as** JST 116.

ENGL 117 3 hrs.
Introduction to Gender, Sexuality, and Literature
Introduction to literary texts in Western and other traditions that explore issues of gender and sexuality. **Same as** GWS 117. *Creative Arts, and Individual and Society course.*

ENGL 118 3 hrs.
Introduction to African American Literature, 1760–1910
Comprehensive survey, 1760–1910, from earliest folk roots to formal literary tradition. **Same as** AAST 110. *Creative Arts, and Individual and Society course.*

ENGL 119 3 hrs.
Introduction to African American Literature since 1910
Comprehensive survey of African American literature from 1910 to the present. **Same as** AAST 111. *Creative Arts, and U.S. Society course.*

ENGL 120 3 hrs.
Film and Culture
Analysis of representative works that reflect the relationship between cinema and its cultural context. *Creative Arts, and Individual and Society course.*

ENGL 121 3 hrs.
Introduction to Moving Image Arts
Examination and interpretation of moving image texts, such as film, television, and new digital media. *Creative Arts course.*

ENGL 122 3 hrs.
Understanding Rhetoric
An introductory examination of rhetoric as an intellectual force shaping discourse in both academic and public domains. *Creative Arts, and Individual and Society course.*

ENGL 123 3 hrs.
Introduction to Asian American Literature
Introductory survey of a wide range of Asian American cultural forms in their sociohistorical contexts. **Same as** ASAM 123. *Creative Arts, and U.S. Society course.*

ENGL 125 3 hrs.
Introduction to Asian American Studies
Overview of Asian American experiences and perspectives in sociohistorical context. Introduction to major concepts, issues, and debates in the field of Asian American Studies. **Same as** ASAM 125 and SOC 125. *Individual and Society, and U.S. Society course.*

ENGL 160 3 hrs.
Academic Writing I: Writing in Academic and Public Contexts
Students write in a variety of genres with an emphasis on argument and sentence-level grammar. Topics vary by section. **Prerequisite(s):** Eligibility as determined by performance on the department placement test.

ENGL 161 3 hrs.
Academic Writing II: Writing for Inquiry and Research
Students learn about academic inquiry and complete several writing projects including a documented research paper. Topics vary by section. **Prerequisite(s):** ENGL 160 or the equivalent. All students take the Writing Placement Test. If students place into ESL 050, ESL 060, ENGL 070, ENGL 071 or ENGL 160, the student must take that course (or courses) prior to enrolling in ENGL 161. Students with an ACT English subscore of 27 or higher receive a waiver of ENGL 160 and permission to enroll in ENGL 161.

ENGL 170 3 hrs.
Freshman Colloquium I
Reading and analysis of major texts in the Western intellectual tradition. Extensive practice in expository writing. Grade of C or better in ENGL 170 permits waiver of ENGL 160. **Prerequisite(s):** ACT English subscore of 27 and approval of the Honors College. *Creative Arts course.*

ENGL 171 3 hrs.
Freshman Colloquium II
 Reading and analysis of major texts in the Western intellectual tradition from a variety of cultures and historical periods. Extensive practice in argumentative and research writing. Grade of C or better in ENGL 171 permits waiver of ENGL 161.
Prerequisite(s): ENGL 170 or an English ACT subscore of 29.
Creative Arts course.

ENGL 194 3 hrs.
Topics in Literature and Culture
 Reading and analysis of literature and other cultural works from a variety of periods and genres. May be repeated.

ENGL 198 1–3 hrs.
Field Research in Writing and Rhetoric
 Students apply the academic features of reading and writing texts to contexts outside the classroom through the design and execution of field-based research projects. Fieldwork required. May be repeated to a maximum of 8 hrs.
Prerequisite(s): Consent of the instructor and admission to the Chicago Civic Leadership Certificate Program (CCLCP).
Corequisite(s): Students must enroll concurrently in one of four required CCLCP courses, taken during the freshman and sophomore years. Contact program advisor for additional details.

ENGL 200 3 hrs.
Basic English Grammar
 Students will be introduced to the basic grammatical structures and semantics of English. The focus will be on the interrelationship of syntax and semantics, showing how small changes in structure can affect the meaning of sentences.

ENGL 201 3 hrs.
Introduction to the Writing of Nonfiction Prose
 Basic techniques for writing essays, articles, reviews, and other forms of nonfiction.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 202 3 hrs.
Media and Professional Writing
 Analysis of and practice in media writing, including news, feature, and opinion writing.
Prerequisite(s): ENGL 240 or the equivalent.

ENGL 210 3 hrs.
Introduction to the Writing of Poetry
 Practice in writing poetry, beginning with exercises and published models, with increasing emphasis on the students' poetry in class. Workshop format.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 212 3 hrs.
Introduction to the Writing of Fiction
 Practice in the writing of fiction; emphasis on analysis of student work and published examples.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 222 3 hrs.
Tutoring in the Writing Center
 Students learn principles of effective writing by tutoring other students under the supervision of the Writing Center staff. Emphasis on theories of writing. May be repeated to a maximum of 9 hrs.
Prerequisite(s): Grade of A or B in ENGL 070 or ENGL 160, and ENGL 161 (University Writing requirement) and consent of the Writing Center director.

ENGL 232 3 hrs.
History of Film I: 1890 to World War II
 History of film from its beginnings in the 1890s up to World War II. **Same as** AH 232 and MOVI 232.

ENGL 233 3 hrs.
History of Film II: World War II to the Present
 History of film from World War II to contemporary movements in world cinema. **Same as** AH 233 and MOVI 233.

ENGL 234 3 hrs.
History of Television
 A critical history of television. **Same as** COMM 234 and MOVI 234. One additional hour each week for required screenings.

ENGL 240 3 hrs.
Introduction to Literary Study and Critical Methods
 Introduction on how to read and write critically about literature and other cultural productions, includes methods of literary and cultural theory and criticism, issues of form and interpretation, rhetorical analysis.
Prerequisite(s): Completion of the University Writing requirement or concurrent registration in ENGL 161 or 171.
Recommended background: 3 hours from ENGL 101–123.

ENGL 241 3 hrs.
English Literature I: Beginnings to 1660
 A survey of significant works of English literature, beginnings to 1660, their historical, cultural, and aesthetic dimensions, from a number of critical perspectives.
Prerequisite(s): Completion of the University Writing requirement or concurrent registration in ENGL 161 or ENGL 171.
Recommended background: 3 hours of English from ENGL 101–123.

ENGL 242 3 hrs.
English Literature II: 1660 to 1900
 A survey of significant works of English Literature, 1660–1900,

their historical, cultural, and aesthetic dimensions, from a number of critical perspectives.
Prerequisite(s): Completion of the University Writing requirement or concurrent registration in ENGL 161 or ENGL 171.
Recommended background: 3 hours of English from ENGL 101–123.

ENGL 243 3 hrs.
American Literature: Beginnings to 1900
 A survey of significant works of American literature, beginnings to 1900, their cultural, historical, and aesthetic dimensions, from a number of critical perspectives.
Prerequisite(s): Completion of the University Writing requirement or concurrent registration in ENGL 161 or ENGL 171.
Recommended background: 3 hours of English from ENGL 101–123.

ENGL 260 3 hrs.
Comparative Black Literatures
 The study and analysis of selected works of literature and criticism in the context of the African diaspora. **Same as** AAST 250.
Creative Arts, and U.S. Society course.

ENGL 261 3 hrs.
Reading Black Women Writing
 Examines inscriptions of race, gender, class, and sexuality as they shape the literary and critical practices of nineteenth- and twentieth-century black women writers. **Same as** AAST 261 and GWS 261. Previously listed as ENGL 480.
Prerequisite(s): Grade of C or better in AAST 100 or grade of C or better in AAST 110 or grade of C or better in AAST 111 or grade of C or better in ENGL 118 or grade of C or better in ENGL 119 or grade of C or better in ENGL 240; or consent of the instructor.

ENGL 262 3 hrs.
Black Cultural Studies
 Introduction to approaches, methods, and key debates in the study of black culture in a transnational and diasporic context. **Same as** AAST 262.
Prerequisite(s): AAST 100.
Creative Arts, and U.S. Society course.

ENGL 265 3 hrs.
The Harlem Renaissance
 The intellectual, cultural, and artistic expressions among African Americans from 1912 to 1933, with an emphasis on the literary texts and social history. **Same as** AAST 265. Previously listed as ENGL 350.
Prerequisite(s): Grade of C or better in AAST 100; and grade of C or better in AAST 110 or grade of C or better in ENGL 240 and grade of C or better in ENGL 243; or consent of the instructor. *Past, and U.S. Society course.*

ENGL 266 3 hrs.
Topics in African Literature
 The study and analysis of selected works of African literature, history, and criticism. **Same as** AAST 266. May be repeated.
Creative Arts, and World Cultures course.

ENGL 295 3 hrs.
Latino Literary Studies
 Major trends, genres, works, themes, and writers related to Latino history and culture, mainstream and minority U.S., Latin American and third world literatures. **Same as** LALS 295 and SPAN 295. *U.S. Society course.*

ENGL 297 3 hrs.
Studies in the Classical Tradition
 Examination of selected texts of ancient Greek and Roman literature, such as the novel, drama, and epic, and how they inform English and American literature and culture. **Same as** CL 297.
Prerequisite(s): CL 102; or consent of the instructor.
Creative Arts, and Past course.

ENGL 302 3 hrs.
Studies in the Moving Image
 Study of a topic or movement in film and/or other media forms. **Same as** MOVI 302. May be repeated to a maximum of 6 hrs.
Prerequisite(s): ENGL 102 or consent of instructor.

ENGL 303 3 hrs.
Studies in Poetry
 Survey of the traditions of English and American poetry.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.
Recommended background: ENGL 103.

ENGL 304 3 hrs.
Studies in Drama
 Survey of an author, topic, or movement in drama.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.
Recommended background: ENGL 104.

ENGL 305 3 hrs.
Studies in Fiction
 Survey of a topic or a movement in fiction. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.
Recommended background: ENGL 105 or 106.

ENGL 311 3 hrs.
Medieval English Literature
 Survey of major works from the period 450–1500. Readings may include Beowulf, Chaucer, Langland, the Gawain-poet.
Prerequisite(s): Grade of C or better in ENGL 240 and grade of C or better in ENGL 241.

ENGL 312 3 hrs.
Sixteenth- and Seventeenth-Century Literature

Study of important works written in English between 1500 and 1700. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 241.

ENGL 313 3 hrs.
Major Plays of Shakespeare

Major comedies, histories, tragedies, and romances; the development of Shakespeare's career in relation to his theater and his society. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 241.

ENGL 314 3 hrs.
Milton

An introduction to Milton's life and works, this course focuses primarily on the major poetry (Paradise Lost, Paradise Regained, Samson Agonistes) and selected prose. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 241.

ENGL 315 3 hrs.
Restoration and Eighteenth-Century Literature

Survey of representative texts in the major genres of Restoration and eighteenth-century literature. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 242.

ENGL 316 3 hrs.
British Romantic Literature

Surveys the work of important British Romantic writers such as Wordsworth, Coleridge, Byron, Austen, and Scott, with particular emphasis on analyzing a variety of typical genres. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 242.

ENGL 317 3 hrs.
Victorian Literature

Introduction to the literature of the Victorian period in England, with representative fiction, poetry, and nonfictional prose. Some attention to other aspects of Victorian culture (visual arts, architecture, music) as appropriate. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 242.

ENGL 318 3 hrs.
Modern British Literature: 1900–1945

This course surveys major themes in British literature written between 1900 and 1945. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 242.

ENGL 319 3 hrs.
Post-War British Literature: 1945–1980

Focus on the new international literatures in English and the forces that produced them. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 242.

ENGL 320 3 hrs.
British Literature: 1980–Present

British literature in the contemporary context. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 242.

ENGL 321 3 hrs.
Early American Literature: 1630 to 1790

Survey of representative works in early American literature from the early Colonial through the Revolutionary and Federal periods. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 243.

ENGL 323 3 hrs.
American Literature: 1790 to 1865

The course analyzes selected works of American literature written between 1790 and the end of the Civil War in 1865. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 243.

ENGL 324 3 hrs.
American Literature: 1865–1900

Analysis of representative American literary works of the period 1865–1900. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 243.

ENGL 325 3 hrs.
Modern American Literature: 1900–1945

Representative selections with emphasis on the poetry and fiction of the period. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 243.

ENGL 326 3 hrs.
Post-War American Literature: 1945–1980

Representative selections with emphasis on poetry and fiction of the period. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 243.

ENGL 327 3 hrs.
Contemporary American Literature: 1980–Present

Study of contemporary American authors, including those who are currently publishing in electronic media forms as well as in commercial, academic, or independent presses. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 243.

ENGL 328 3 hrs.
Asian American Literature

Historical development of Asian American literature. It will identify specific cultural and political issues that have shaped the broad range and diverse ethnic interests of that writing. **Same as ASAM 328. Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 243. **Recommended background:** ENGL 123.

ENGL 333 3 hrs.
Literatures in English Other than English and American

Comparative study of literature in English from the colonial territories, the independent former colonies, and/or the Commonwealth nations. **Prerequisite(s):** Grade of C or better in ENGL 240; and a grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243. **Recommended background:** ENGL 114.

ENGL 341 3 hrs.
Literature and Popular Culture

Study of what constitutes popular culture, how it identifies itself, how it works, and how it can be analyzed. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243. **Recommended background:** ENGL 110.

ENGL 342 3 hrs.
Cultural and Media Studies

General introduction to Cultural Studies, with special attention to film and television and other new media. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 343 3 hrs.
Literature and Religion

Studies in the relation of literature to doctrines, imagery, practices, experiences, or history of one or more religious traditions. **Same as RELS 343. Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 351 3 hrs.
Topics in Black Art and Literature

Study of literature and the other arts in the context of the African diaspora. Topics vary. **Same as AAST 351. Prerequisite(s):** Grade of C or better in AAST 100; and grade of C or better in AAST 110 or grade of C or better in AAST 111; or grade of C or better in ENGL 240 and grade of C or better in ENGL 243.

ENGL 358 3 hrs.
Colonial and Postcolonial Literature

Studies a range of works produced in the context of nineteenth- and twentieth-century colonialism, as well as from the postcolonial period. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243. **Recommended background:** ENGL 114.

ENGL 359 3 hrs.
Ethnic American Literature

Representative selections from a number of ethnic and minority literatures. **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 243. **Recommended background:** ENGL 113.

ENGL 361 3 hrs.
Gender Theory

Survey of theories of gender in culture. Same as GWS 361. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or GWS 101 or GWS 102; or consent of the instructor. **Recommended background:** ENGL 117.

ENGL 362 3 hrs.
Queer Theory

Survey of theoretical concerns and historical issues that inform and shape the field of Queer Studies. **Same as GWS 362. Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or GWS 203; or consent of the instructor.

ENGL 363 3 hrs.
Gender and Sexuality in Literature

A survey of works that take the status of gender and sexuality as one of their central thematic or aesthetic concerns. **Same as GWS 363. Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or GWS 101 or GWS 102; or consent of the instructor. **Recommended background:** ENGL 117.

ENGL 364 3 hrs.
Disability Studies

This course surveys the representation of physical and cognitive disability in U.S. culture, 1622–present, in order to examine the ways in which impairment impacts definitions of Americanness. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or consent of the instructor.

ENGL 370 3 hrs.
Literary Theory

An introduction to and survey of literary theory. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 372 3 hrs.
History of Literary Criticism
 This course provides an overview of the foundations of literary criticism in English from the ancient Greeks to the present time.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

ENGL 374 3 hrs.
Rhetorical Studies
 Theoretical and practical studies of the social contexts, uses, and effects of various kinds of discourse and communication, whether oral, written, or electronic.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.
Recommended background: ENGL 122.

ENGL 375 3 hrs.
Rhetoric and Public Life
 The study of how language and other media intersect with material conditions to make political belief and political change.
Prerequisite(s): Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.
Recommended background: ENGL 122.

ENGL 394 3 hrs.
Special Topics in English Studies
 Selected topics in English Studies. May be repeated up to 2 time(s).

ENGL 398 3 hrs.
English Honors Seminar
 Supervised research and writing of a senior honors thesis on a topic agreed upon by student and faculty sponsor. Students who complete this course and fulfill all of the other honors prerequisites will be awarded highest distinction in the major.
Prerequisite(s): A GPA of 3.75 or higher in courses required for the major, completion or simultaneous enrollment in a 400-level seminar, faculty sponsor, and the approval of the department.

ENGL 399 1–3 hrs.
Independent Study in English
 Independent study. Topics for ENGL 399 should not duplicate work done in other English courses. May be repeated to a maximum of 3 hrs.
Prerequisite(s): Senior standing and consent of the instructor. The student must first consult with the instructor of the independent study and the instructor and director of undergraduate studies must approve the student's written prospectus specifying the topic, required work, and number of credit hours the student will receive for the course.

ENGL 400 3 OR 4 hrs.
History of the English Language
 Development of English from its Proto-Indo-European origin to the present; detailed examination of the external and internal history of Old, Middle, and Modern English. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Senior standing or above; or consent of the instructor.
Recommended background: ENGL 200.

ENGL 401 3 OR 4 hrs.
Modern English
 This is a course on the sound system, the lexicon, and syntax-semantics of modern American English taught from the linguistic perspective. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Senior standing or 9 hours of English or consent of the instructor.
Recommended background: ENGL 200.

ENGL 402 3 OR 4 hrs.
Rhetoric
 Intensive study of central topics in rhetorical theory in their historical depth. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): ENGL 342 or ENGL 361 or ENGL 370 or ENGL 372 or ENGL 374 or ENGL 375; and senior standing or above; or consent of the instructor.

ENGL 403 3 OR 4 hrs.
Introduction to Old English
 The elements of Old English grammar and readings from the literature of England before the Norman Conquest. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): ENGL 240; and ENGL 241 or ENGL 242 or ENGL 243; or consent of the instructor.

ENGL 405 3 OR 4 hrs.
Topics in Old English Literature
 Studies in the language and literature of pre-Conquest England. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 403; or consent of the instructor.

ENGL 408 3 OR 4 hrs.
Topics in Medieval Literature
 Topics in English literature from the period 450–1500. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 311 or ENGL 312 or ENGL 313 or ENGL 314; and senior standing or above; or consent of the instructor.

ENGL 413 3 OR 4 hrs.
Topics in Shakespeare
 Study of a genre, topic, or period in Shakespeare's work. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 312 or ENGL 313 or ENGL 314; and senior standing or above; or consent of the instructor.

ENGL 416 3 OR 4 hrs.
Topics in Renaissance Literature and Culture
 Study of a topic in English literature written between 1500 and 1700. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 311 or ENGL 312 or ENGL 313 or ENGL 314; and senior standing or above; or consent of the instructor.

ENGL 417 3 OR 4 hrs.
Topics in Restoration and Eighteenth-Century Literature and Culture
 Focus on a particular topic or theme in British literature 1660–1780. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 313 or ENGL 314 or ENGL 315 or ENGL 316; and senior standing or above; or consent of the instructor.

ENGL 419 3 OR 4 hrs.
Topics in Romantic Literature and Culture
 Concentrates on a particular aspect of British Romantic writing in order to provide a greater depth of study in the period. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 313 or ENGL 314 or ENGL 315 or ENGL 316 or ENGL 317; and senior standing or above; or consent of the instructor.

ENGL 421 3 OR 4 hrs.
Topics in Victorian Literature
 Study of a major author, genre, or theme in the Victorian period. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 315 or ENGL 316 or ENGL 317 or ENGL 318; and senior standing or above; or consent of the instructor.

ENGL 422 3 OR 4 hrs.
Topics in Postcolonial and World Literature in English
 Study of a major author, topic, movement, or genre within postcolonial and world literatures in English. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 318 or ENGL 319 or ENGL 320 or ENGL 333; and senior standing or above; or consent of the instructor.

ENGL 426 3 OR 4 hrs.
Topics in American Literature and Culture to 1900
 This course analyzes selected topics in American literature and culture to 1900. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 323 or ENGL 324 or ENGL 325; and senior standing or above; or consent of the instructor.

ENGL 427 3 OR 4 hrs.
Topics in American Literature and Culture, 1900–Present
 Study of a specific topic relating American literature to society, culture, history, race, gender, ethnicity. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 324 or ENGL 325 or ENGL 326 or ENGL 327; and senior standing or above; or consent of the instructor.

ENGL 428 3 OR 4 hrs.
Topics in Literature and Culture, 1900–Present
 Study of a specific topic relating twentieth-century literature to society, culture, history, race, gender, ethnicity. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 318 or ENGL 319 or ENGL 320 or ENGL 325 or ENGL 326 or ENGL 327; and senior standing or above; or consent of the instructor.

ENGL 429 3 OR 4 hrs.
Topics in Literature and Culture
 Study of a specific topic relating literature to society, culture, history, race, gender, ethnicity. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): Six hours of English at the 300-level and senior standing or above; or consent of the instructor.

ENGL 437 3 OR 4 hrs.
Topics in Poetry and Poetic Theory
 Investigations into the nature of poetry. Discussions of issues such as technical, theoretical, formal, and historical developments. Topics and readings vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 303 or ENGL 316 or ENGL 355; and senior standing or above; or consent of the instructor.

ENGL 438 3 OR 4 hrs.
Topics in Performance Studies
 In-depth study of a topic, movement, artist, or author in the field of drama and performance studies, broadly defined. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 304 or ENGL 313 or ENGL 341 or ENGL 342 or ENGL 370 or ENGL 375; and senior standing or above; or consent of the instructor.

ENGL 439 3 OR 4 hrs.
Topics in Fiction and Theories of Fiction
 Study of fiction related to a particular theory of fiction (Realism, Romance, Literary Naturalism, Narrative Theory, Fictional Poetics). Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).
Prerequisite(s): ENGL 305; and senior standing or above; or consent of the instructor.

ENGL 440 3 OR 4 hrs.
Topics in Cultural and Media Studies

Study of a medium, genre, theme, period, influence, or problem in Culture and Cultural Theory. Topics Vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 302 or ENGL 341 or ENGL 342; and senior standing or above; or consent of the instructor.

ENGL 441 3 OR 4 hrs.
Topics in Asian American Literature and Culture

An advanced seminar that examines various forms of cultural production by Asian American artists of diverse ethnic backgrounds. Topics vary. **Same as** ASAM 441. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 327 or ENGL 328 or ENGL 359; and senior standing or above; or consent of the instructor.

ENGL 443 3 OR 4 hrs.
Topics in Gender, Sexuality, and Literature

Specific study of topics in gender and literature. Content varies. **Same as** GWS 443. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363 or GWS 101 or GWS 102; and senior standing or above; or consent of the instructor.

ENGL 444 3 OR 4 hrs.
Topics in Theories of Gender and Sexuality

Advanced study of topics related to theories of gender and sexuality. **Same as** GWS 444. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363 or GWS 101 or GWS 102; and senior standing or above; or consent of the instructor.

ENGL 445 3 OR 4 hrs.
Topics in Disability Studies

This course will focus on topics structured around particular aspects of Disability Studies and its practical, cultural, and theoretical implications. **Same as** DHD 445. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363 or ENGL 364; and senior standing or above; or consent of the instructor.

ENGL 446 3 OR 4 hrs.
Topics in Criticism and Theory

Focus on a particular critical or theoretical topic, movement, tradition, or figure. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 370 or ENGL 372; and senior standing or above; or consent of the instructor.

ENGL 448 3 OR 4 hrs.
Topics in Rhetorical Studies

Study of theoretical intersections between Rhetoric and Cultural Studies to describe and explain the ways in which discourse constructs identity, knowledge, and values. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 374 or ENGL 375 or ENGL 342 or ENGL 402; and senior standing or above; or consent of the instructor.

ENGL 459 3 OR 4 hrs.
Introduction to the Teaching of English in Middle and Secondary Schools

Intended as a general initiation to the field of secondary English teaching, the course focuses on many of the crucial issues facing teachers in contemporary language arts classrooms. 3 undergraduate hrs. 4 graduate hrs. Fieldwork required. **Prerequisite(s):** Completion of the University Writing requirement; and sophomore standing or above.

ENGL 462 3 OR 4 hrs.
Topics in American Literary Nonfiction Prose

Study of a specific topic in the literary nonfiction of the United States, which may include its history, development, and classification. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** Grade of C or better in ENGL 240 and grade of C or better in ENGL 243, and junior standing or above; or consent of the instructor.

ENGL 469 3 OR 4 hrs.
Women's Literary Traditions

An exploration of issues such as the female aesthetic; women's popular literature; factors that enable creativity; differences of race and class. **Same as** GWS 469. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of instructor.

ENGL 470 3 OR 4 hrs.
Topics in Multiethnic Literatures in the United States

Topics in the literatures of American racial and ethnic groups. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 328 or ENGL 333 or ENGL 350 or ENGL 351 or ENGL 355 or 357; or ENGL 359; and senior standing or above; or consent of the instructor.

ENGL 471 3 OR 4 hrs.
Topics in Native American Literatures

The history and development of literature by and about American Indians. Content varies. **Same as** NAST 471. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** Senior standing or above and 6

hours of English, African American studies, or Latin American studies or consent of the instructor.

ENGL 472 3 OR 4 hrs.
Women and Film

Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. **Same as** AH 434 and GWS 472. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ENGL 302 or ENGL 342 or ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of instructor.

ENGL 473 3 OR 4 hrs.
Topics in African American Literature

African American literature and culture for students with significant background in the field. Topics vary. **Same as** AAST 490. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** AAST 357 or AAST 360 or ENGL 357; and senior standing or above; or consent of the instructor.

ENGL 474 3 OR 4 hrs.
Topics in Popular Culture and Literature

Study of a specific topic relating literature to popular culture, such as sport, television, and best sellers. Critical analysis of the cultural mythology encasing these subjects. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 302 or ENGL 341 or ENGL 342; and senior standing or above; or consent of the instructor.

ENGL 478 3 OR 4 hrs.
The Bible as Literature

Literary analysis of the English Bible (including the Apocrypha) in its historical and religious contexts; study of the King James Version and successive revisions of it. **Same as** JST 478 and RELS 478. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or consent of the instructor.

ENGL 481 3 OR 4 hrs.
Methods of Teaching English in Middle and Secondary Schools

Theory and practice; emphasis on current approaches to language and literature in multicultural settings. 3 undergraduate hrs. 4 graduate hrs. All students in the teacher education program must take this course in the term preceding their student teaching. **Prerequisite(s):** Senior standing or 9 hours of English or consent of the instructor.

ENGL 482 4 hrs.
Campus Writing Consultants

Tutoring in the Writing Center. Students are required to consult with others on their writing. Emphasis on practice and theo-

ries of writing. Appropriate for prospective teachers.

Prerequisite(s): Senior standing or 9 hours of English and consent of the instructor. Students must obtain override from the Writing Center.

ENGL 483 3 OR 4 hrs.
Studies in Language and Rhetoric

Study of a particular topic or movement in language or rhetoric. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** Senior standing or above; or consent of the instructor.

ENGL 484 3 OR 4 hrs.
Studies in Language and Cognition

Examination of relationships among theories of language structure, cognition, and discourse, with applications of such theories to the writing process. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ENGL 401; or consent of the instructor.

ENGL 485 3 OR 4 hrs.
Studies in the English Language and Linguistics

Study of a topic such as language diversity and literacy, theories of grammar, literacy in society, ethnicity and language. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** Senior standing or 9 hours of English or consent of the instructor.

ENGL 486 3 OR 4 hrs.
The Teaching of Writing in Middle and Secondary Schools

Rhetoric and composition pedagogy. Study of a topic. Content varies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Senior standing or 9 hours of English or consent of the instructor.

ENGL 489 3 OR 4 hrs.
The Teaching of Reading and Literature in Middle and Secondary Schools

Intended as a part of the English education methods sequence, with particular emphasis on helping prospective teachers assist struggling readers in the study of literature. 3 undergraduate hrs. 4 graduate hrs. Fieldwork required. **Prerequisite(s):** ENGL 459 and completion of the University Writing requirement; or consent of the instructor.

ENGL 490 3 OR 4 hrs.
Advanced Writing of Poetry

Advanced work on poetic techniques and practices; emphasis on analysis of student work, using published examples; particular attention to individual student development. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) by undergraduates. **Prerequisite(s):** Undergraduates: Grade of B or better in ENGL 210. **Registration restrictions:** Graduate students must obtain approval of the Department of English.

ENGL 491 3 OR 4 hrs.

Advanced Writing of Fiction
Advanced practice; emphasis on analysis of student work and published examples. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) by undergraduates. **Prerequisite(s):** Undergraduates: Grade of B or better in ENGL 212.

Registration restrictions:

Graduate students must obtain approval of the Department of English.

ENGL 492 3 OR 4 hrs.**Advanced Writing of Nonfiction Prose**

Advanced practice in writing essays, articles, reviews, or other forms of nonfiction prose. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) by undergraduates. **Prerequisite(s):** Undergraduates: Grade of B or better in ENGL 201.

Registration restrictions:

Graduate students must obtain approval of the Department of English.

ENGL 493 0-6 hrs.**Internship in Nonfiction Writing**

Approved internship where students learn professional writing and organizational communication with an emphasis on initiative, planning, and meeting deadlines. Both the instructor and a supervisor mentor students during the course. May be repeated to a maximum of 6 hrs. A maximum of 6 hours may be applied toward either the undergraduate major in English or a graduate degree in English. Credit is not given for ENGL 493 if the student has credit in ENGL 593. **Prerequisite(s):** ENGL 201 and ENGL 202 or completion of the Chicago Civic Leadership Certificate Program (CCLCP) and an interview with the coordinator of the internship program prior to registration.

ENGL 494 1-4 hrs.**Topics in the Teaching of English**

Study of a topic in literature, composition, and/or pedagogy. The content varies with each offering. May be repeated to a maximum of 8 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

ENGL 495 3 OR 4 hrs.**Playwriting**

The development of scripts for stage performance. **Same as** THTR 423. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above; and approval of the department and submission and approval of a playwriting sample or dialog-centered fiction prior to registration.

ENGL 498 6 hrs.**Educational Practice with Seminar I**

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve.

Satisfactory/Unsatisfactory grading only. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

ENGL 499 6 hrs.**Educational Practice with Seminar II**

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Satisfactory/Unsatisfactory grading only. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in ENGL 498, and approval of the department.

English as a Second Language**ESL 050 4 hrs.****English as a Second Language Composition I**

Instruction in basic grammar and writing for ESL students. Focus on sentence structure and paragraph development. Satisfactory/Unsatisfactory grading only. No graduation credit.

Prerequisite(s): Open only to freshman and sophomores. Placement determined by English Placement Exam administered by the University Testing Services.

ESL 060 4 hrs.**English as a Second Language Composition II**

Basic writing for ESL students. Focus on multiparagraph essays. Satisfactory/Unsatisfactory grading only. No graduation credit.

Prerequisite(s): Open only to freshmen and sophomores. ESL 050 or placement by English Placement Exam administered by the University Testing Services.

Entrepreneurship**ENTR 300 3 hrs.****Survey of Entrepreneurship**

Designed for undergraduate students with a curiosity about business and particularly entrepreneurship and small business or not-for-profit organizations. **Prerequisite(s):** Junior standing or above.

ENTR 430 3 hrs.**Family Business Management**

Competitive strengths/weaknesses of a family business, dynamics of family interactions within the overlapping family, management, and ownership systems. Credit is not given for ENTR 430 if the student has credit for MGMT 430. **Recommended background:** Prior experience in a family business.

ENTR 450 3 OR 4 hrs.**Entrepreneurship for Scientists and Engineers**

Gives nonbusiness students an appreciation for the rewards and challenges of entrepreneurship, especially as it relates to commercializing emerging technologies. 3 undergraduate hrs. 4 graduate hrs. Credit is not given for students enrolled in a Business Administration degree program.

ENTR 454 3 hrs.**New Venture Formation**

Awareness and realistic understanding of the new venture formation process; role of the entrepreneur in the economy and society; self-evaluation, venture feasibility. Credit is not given for ENTR 454 if the student has credit for MGMT 455 or MKTG 454. **Prerequisite(s):** FIN 300 and MGMT 340 and MKTG 360, or consent of the instructor.

ENTR 464 3 hrs.**Entrepreneurial Consulting**

Student teams diagnose and recommend solutions to problems and opportunities facing Chicago area entrepreneurs and smaller enterprises. Application of previous course work. Credit is not given for ENTR 464 if the student has credit for MKTG 464. **Prerequisite(s):** ENTR 454; and ECON 218 or ECON 220, and 6 credit hours of other entrepreneurship courses.

ENTR 494 3 hrs.**Special Topics in Entrepreneurship**

Exploration of areas not covered in existing course offerings or study of selected topics in greater depth. Subject will vary from semester to semester. May be repeated to a maximum of 6 hrs. May be repeated if topics vary. **Prerequisite(s):** ENTR 454 and senior standing or above and approval of the department.

ENTR 499 1-3 hrs.**Independent Study in Entrepreneurship**

Independent study of an approved topic in entrepreneurship. Student must prepare a written report under the guidance of the instructor.

Prerequisite(s): Approval of the department.

Finance**FIN 300 3 hrs.****Introduction to Managerial Finance**

Description of financial markets. Time value of money. Risk and return. Market valuation of securities. Capital budgeting, capital structure, and dividend policy of firms. **Prerequisite(s):** ACTG 210 and MATH 160 and credit or concurrent registration in ECON 218.

FIN 310 3 hrs.**Investments**

Organization of security markets. Legal and institutional environment, mechanics of trade, financial intermediation, security

classification. General principles of asset valuation with application to specific securities.

Prerequisite(s): FIN 300.

FIN 320 3 hrs.**Managerial Finance**

Short-term asset management, capital budgeting under certainty and uncertainty, capital structure and dividend policy, valuation and risk, capital asset prices, financial policy for firms.

Prerequisite(s): FIN 300.

FIN 371 3 hrs.**Introduction to Urban Real Estate**

Introductory survey of urban real estate; business, legal, economic, and financial perspectives. **Same as** ECON 371. **Prerequisite(s):** ECON 218 or ECON 220.

FIN 396 1-3 hrs.**Independent Study**

Independent study, under the direction of a faculty member, must be arranged before the start of the semester. May be repeated. Students may register in more than one section per term.

Prerequisite(s): Consent of the department head.

FIN 412 3 hrs.**Portfolio Management**

Development of portfolio theory; establishment of portfolio objectives for individuals, corporations, banks, pension and mutual funds; evaluation of portfolio performance. **Prerequisite(s):** FIN 310.

FIN 415 3 hrs.**Fixed Income Securities**

Valuation of fixed income securities, term structure estimation, and arbitrage trading with practical application using real data.

Prerequisite(s): FIN 310.

FIN 416 3 hrs.**Options and Futures Markets**

History and institutional structure of options and futures markets. Uses of futures and options for arbitrage, speculation, and hedging by managers of domestic and multinational organizations. Analysis of factors which determine futures and options prices.

Prerequisite(s): FIN 310.

FIN 430 3 hrs.**Introduction to Money and Banking**

Payment and banking systems; credit and market risk management; The Federal Reserve System; globalization of monetary, banking, and regulatory systems. **Prerequisite(s):** FIN 300.

FIN 431 3 hrs.**Theory and Structure of Financial Markets**

The distribution of saving and credit over time and risk categories. The financial services industry. Administration and regulation of global money, security, and derivatives markets.

Prerequisite(s): FIN 300.

FIN 442 3 hrs.**International Finance**

Financial management within an international context.

International monetary system and financial markets, management of foreign investments, working capital management, exchange risks, taxation, and earnings reports. **Prerequisite(s):** FIN 300 and FIN 310.

FIN 444 3 hrs.**Small Business Finance**

Aspects of acquiring funds for small business enterprises. Topics include the trade-off of liquidity and profitability, management of working capital, and capitalization. **Prerequisite(s):** FIN 300.

FIN 465 3 OR 4 hrs.**Property and Liability Insurance**

Using property and liability insurance to manage risk. Topics may include fire, marine, consequential loss, crime, title, automobile, and workers' compensation insurance.

3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** FIN 300; or consent of the instructor.

FIN 466 3 OR 4 hrs.**Life and Health Insurance**

Types, uses, and evaluation of life and health insurance. Economics of the industry. Regulation and taxation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** FIN 300; or consent of the instructor.

FIN 472 3 OR 4 hrs.**Real Estate Finance**

Finance principles applied to real estate; financing of residential and income-producing real estate; real estate development finance; secondary mortgage market; taxation and real estate finance. **Same as** ECON 472. 3 undergraduate hrs. 4 graduate hrs. May not be used to satisfy the economics credit requirement for the MA in Economics and PhD in Economics. Elective credit only will be applied toward these degrees. **Prerequisite(s):** ECON 218 or ECON 220.

FIN 473 3 hrs.**Introduction to Risk Management**

Introduction to risk management. Loan and credit management; credit scoring. Risk measurements and reserves; banking and insurance capital requirements, the BASEL accord, tail events and catastrophic event insurance. Financial contracts and hedging. **Same as** IDS 473. **Prerequisite(s):** FIN 300 and IDS 371.

FIN 494 1–4 hrs.**Special Topics in Finance**

An intensive study of a selected topic in finance. Topics vary by sections and by term. 1 to 3 undergraduate hrs. 2 to 4 graduate hrs. May be repeated if topics vary. Students may register for more than one section per term. May be repeated to a maximum of 6 hours for undergraduates;

may be repeated to a maximum of 8 hours for graduate students. **Prerequisite(s):** Consent of the instructor.

FIN 495 4 hrs.**Competitive Strategy**

Multidisciplinary analysis of organization strategy and policy using case method and/or business simulation. Assignments involve extensive library research as well as oral and written reports. **Prerequisite(s):** Senior standing in the College of Business Administration and completion of all other CBA Core courses, or consent of the instructor.

French**FR 101 4 hrs.****Elementary French I**

Introduction to French language and culture. Intensive practice in speaking, listening, reading, and writing. Two additional half hours each week in the language laboratory. For students who have not studied French or placement as determined by test score.

FR 102 4 hrs.**Elementary French II**

Continuation of introduction to French language and culture. Intensive practice in speaking, listening, reading, and writing. Two additional half hours each week in the language laboratory.

Prerequisite(s): A grade of C or better in FR 101, or the equivalent as determined by test score.

FR 103 4 hrs.**Intermediate French I**

Reading of modern authors, syntax and composition, conversational practice and small-group intensive practice. Two additional half hours each week in the language laboratory. **Prerequisite(s):** FR 102, or the equivalent as determined by test score.

FR 104 4 hrs.**Intermediate French II**

Intermediate language and culture. Reading of modern authors, syntax and composition, conversational practice; small-group intensive practice. Two additional half hours each week in the language laboratory. **Prerequisite(s):** FR 103 or the equivalent as determined by test score.

FR 110 4 hrs.**Intensive Elementary French**

Equivalent to FR 101 and FR 102. This accelerated course covers the first two semesters of French in one semester and is designed for students with previous experience in Spanish, French, or Italian. Credit is not given for FR 110 if the student has credit in any of the following: FR 101, FR 102, FR 103, FR 104; or has completed any 200-, 300-, 400-, or 500-level French course; or has placed into FR 103 or above. Four additional hours each week in the language laboratory. For native speakers of Spanish or students with more

than two years of high school French, Spanish, or Italian.

Prerequisite(s): Placement as determined by test score; or two or three years of high school French, Spanish, or Italian; or native speaker of Spanish.

FR 191 3 hrs.**African and Caribbean Francophone Literature in Translation**

An introduction to the Francophone literature of Africa and the Caribbean and to its historical and cultural contexts.

Same as AAST 191. *Creative Arts, and World Cultures course.*

FR 196 3 hrs.**Totalitarianism, Writing, and Cinema**

An introduction to French, Spanish, and Italian writing and films dealing with the issue of totalitarianism. Various authors are examined within a broad context of European thinking on totalitarianism. **Same as** ITAL 196 and SPAN 196. Taught in English. Two additional hours for viewing films (every two weeks).

Prerequisite(s): Consent of the instructor.

FR 198 3 hrs.**French Literature in Translation**

Students will study one aspect of French literature (a period or genre) in translation, focusing on critical thinking and literary analysis. Does not count toward the French major or minor. Taught in English. *Creative Arts, and World Cultures course.*

FR 200 3 hrs.**Introduction to the Study of French Literature and Culture**

Techniques and methods of literary and cultural analysis in French, with emphasis on close reading and writing of critical papers. Taught in French.

Prerequisite(s): FR 104; or appropriate score on the department placement test.

Recommended background: Sufficient command of French to read texts and follow lectures. *Creative Arts, and World Cultures course.*

FR 201 3 hrs.**Introduction to French Literature I**

Introductory survey to French literature of the 19th and 20th centuries. Major works are read either in complete form or excerpts; placed in their historical/cultural contexts. Emphasis is on close readings of texts and writing critical papers.

Prerequisite(s): FR 200 or consent of the instructor.

Recommended background: Sufficient command of French to read texts and to follow the class lectures. *Creative Arts, and World Cultures course.*

FR 202 3 hrs.**Introduction to French Literature II**

Introductory survey to French literature from the Middle Ages to the 18th century. Major works are read in complete form or excerpts; placed in historical/cultural contexts. Emphasis on close readings of texts and writing critical papers. **Prerequisite(s):** FR 200 or consent of the instructor.

Recommended background:

Sufficient command of French to read texts and to follow the class lectures. *Creative Arts, and Past course.*

FR 231 3 hrs.**Conversation and Composition I**

Development of skills in spoken and written French; conversational practice based on practical situations; advanced grammar review; free composition. Taught in French. **Prerequisite(s):** FR 104; or appropriate score on the department placement test. Not open to native speakers except with approval of the department.

FR 232 3 hrs.**Conversation and Composition II**

Continuation of FR 231.

Prerequisite(s): FR 231. Not open to native speakers except with approval of the department.

FR 296 1–3 hrs.**Independent Study**

For majors and minors in French who wish to supplement regular courses or undertake individual study projects. May be repeated to a maximum of 6 hrs.

Prerequisite(s): Approval of the department.

FR 301 3 hrs.**Topics in French and Francophone Literature**

Intensive study of a period, genre, or author within French or Francophone literature, with emphasis on literary analysis and critical writing. May be repeated up to 1 time(s) if topics vary.

Prerequisite(s): FR 201 and FR 202 or consent of the instructor.

FR 302 3 hrs.**Topics in French and Francophone Culture**

Intensive study of French or Francophone culture within a particular period; focus on literary and/or historical texts in the context of social and intellectual movements. May be repeated up to 1 time(s) if topics vary. Taught in French. **Prerequisite(s):** FR 201 and FR 202 or consent of the instructor.

FR 307 3 hrs.**Performing French Theater**

Analysis, dramatic reading, and performance of scenes, acts, or an entire play in French. Focus on pronunciation, diction, fluency and performance. Taught in French. **Prerequisite(s):** FR 201 and FR 202; and consent of the instructor.

FR 333 3 hrs.
Oral and Written French I
 Advanced oral and written work in grammar, vocabulary, oral and aural comprehension; discussions, corrective exercises in composition and pronunciation.
Prerequisite(s): FR 232 or consent of the instructor.

FR 334 3 hrs.
Oral and Written French II
 Continuation of FR 333.
Prerequisite(s): FR 333 or consent of the instructor.

FR 370 1 hr.
Writing and Research in the Major
 Perfecting writing and expository skills in English. Required for majors in the department. **Same as** ITAL 370 and SPAN 370.
Prerequisite(s): Junior or senior standing and approval of the department.

FR 375 0–17 hrs.
French Abroad
 Lectures, seminars, and practical work in French language, literature, and civilization in France. May be repeated to a maximum of 34 hrs. **Prerequisite(s):** Junior standing, approval of the department, FR 201 and any two from FR 202, FR 231, FR 232.

FR 390 3 hrs.
Senior Seminar: Topics in Research and Writing
 Research and critical writing in French studies. Completion of independent research project on seminar topic. Satisfies Writing-in-the-Discipline requirement.
Prerequisite(s): 24 hours completed in French at the 200-level or above or consent of the instructor.

FR 413 3 OR 4 hrs.
French Feminist and Gender Theory
 An introduction to French theories of gender, including feminisms influenced by Lacanian psychoanalysis, political philosophy, and multicultural studies. **Same as** GWS 413. 3 undergraduate hrs. 4 graduate hrs. May be used for credit in the French major only with consent of the director of undergraduate studies. Taught in English. Students who intend to use French 413 toward the major in French must complete assignments in French.
Prerequisite(s): FR 301 or FR 302; or consent of the instructor.

FR 415 3 OR 4 hrs.
French Literature of the Middle Ages
 Introduction to major medieval genres (epic, romance, lyric, theater, allegory), works and authors, such as le Chanson de Roland, Tristan, Chretien de Troyes, Marie de France, Villon. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s).
Prerequisite(s): FR 301 or consent of the instructor.

FR 416 3 OR 4 hrs.
Topics in Sixteenth-Century French Literature
 Intensive analysis of Renaissance literature (Rabelais, Montaigne, Marguerite de Navarre, poetry of the Pleiade, etc.) in the cultural context of humanism and the reformation. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 417 3 OR 4 hrs.
Topics in Seventeenth-Century French Literature
 Intensive study of baroque and classicism, with focus on major genres: theater (Corneille, Moliere, Racine); poetry (La Fontaine); prose (Pascal, de Sevigne); novel (de Lafayette). 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register in more than one section per term.
Prerequisite(s): FR 301 or consent of the instructor.

FR 418 3 OR 4 hrs.
Topics in Eighteenth-Century French Literature
 Introduction to the literature and philosophy of the Enlightenment through representative authors (Rousseau, Diderot, etc.) and major genres (novel, essay, conte, theatre, etc.). 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s).
Prerequisite(s): FR 301 or consent of the instructor.

FR 419 3 OR 4 hrs.
Topics in Nineteenth-Century French Literature
 Major genres and works from Romanticism to realism, naturalism, and symbolism will be studied within the context of the social, cultural, and political movements of the century. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 420 3 OR 4 hrs.
Topics in Twentieth-Century French Literature
 Study of major literary movements (surrealism, existentialism, nouveau roman, theater of the absurd) and intensive analysis of works by major authors from Proust to Beckett. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s).
Prerequisite(s): FR 301 or consent of the instructor.

FR 422 3 OR 4 hrs.
Francophone Novel
 Intensive analysis of a topic in Francophone literature. Scope includes Quebec, Africa, the Antilles, and French novelists outside of France. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s).
Prerequisite(s): FR 301 or consent of the instructor.

FR 433 3 OR 4 hrs.
Advanced Oral and Written French
 Exercises in French pronunciation; oral interpretation of different texts (familiar style and

formal discourse); discussion of newspapers, magazine articles; practice in critical writing. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** FR 334 or consent of the instructor.

FR 440 3 OR 4 hrs.
Topics in French and Francophone Cinema
 This course will examine a selection of French and Francophone films chosen around a period or theme or genre. Topics will vary. 3 undergraduate hrs. 4 graduate hr. May be used for credit in the French major only with consent of the director of undergraduate studies. Taught in English. Students who intend to use French 440 toward the Major in French must complete assignment in French. **Prerequisite(s):** FR 301 or FR 302; or consent of the instructor.

FR 448 3 OR 4 hrs.
Foundations of Second Language Teaching
 Provides an introduction to second language acquisition research and its implications for communicative language teaching. Emphasis is on creating activities to develop high school students' communicative abilities in speaking and listening. **Same as** GER 448 and SPAN 448. 3 undergraduate hrs. 4 graduate hrs. Taught in English.
Prerequisite(s): Junior standing or above; and consent of the instructor and three courses at the 200- and 300-levels.

FR 449 3 OR 4 hrs.
Teaching Second Language Literacy and Cultural Awareness
 Examines the nature of literacy as a reciprocal relationship between readers, writers, texts, and culture. Students learn the practical and theoretical foundations of classroom teaching of second language reading and writing skills. **Same as** GER 449 and SPAN 449. 3 undergraduate hrs. 4 graduate hrs. Taught in English.
Prerequisite(s): Junior standing or above; and consent of the instructor.

FR 461 3 OR 4 hrs.
French Civilization I: Medieval and Renaissance
 Interdisciplinary approach to French civilization of the Middle Ages and the Renaissance including history, literature, the beaux-arts, and philosophy. 3 undergraduate hrs. 4 graduate hrs. Lectures and discussion in French. **Prerequisite(s):** FR 302 or consent of the instructor.

FR 462 3 OR 4 hrs.
French Civilization II: Seventeenth and Eighteenth Centuries
 Interdisciplinary approach to French civilization of the seventeenth and eighteenth centuries, including history, literature, the beaux-arts, and philosophy. 3 undergraduate hrs. 4 graduate hrs. Lectures and discussion in French. **Prerequisite(s):** FR 302 or consent of the instructor.

FR 463 3 OR 4 hrs.
French Civilization III: Nineteenth and Twentieth Centuries
 An interdisciplinary approach to French civilization of the nineteenth and twentieth centuries, including history, literature, beaux-arts, and philosophy. 3 undergraduate hrs. 4 graduate hrs. Lectures and discussion in French. **Prerequisite(s):** FR 302 or consent of the instructor.

FR 464 3 OR 4 hrs.
Topics in French Civilization
 An interdisciplinary approach to French civilization, including history, literature, beaux-arts, and philosophy. Each topic focuses on a specific period between the Middle Ages and the present. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** FR 302 or consent of the instructor.

FR 470 6 hrs.
Educational Practice with Seminar I
 The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

FR 471 6 hrs.
Educational Practice with Seminar II
 The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in FR 470, and approval of the department.

FR 494 3 OR 4 hrs.
Special Topics
 Topics will vary from term to term and may cover such areas as literary theory or culture. **Same as** SPAN 494 and ITAL 494. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. Taught in English. **Prerequisite(s):** Junior standing or above; and approval of the department.

FR 496 1–4 hrs.
Independent Study
 Supervised study in an area not covered by regularly scheduled courses under the direction of a faculty member designated by the chairperson of the department.
Prerequisite(s): French major with senior or graduate standing and consent of the department.

Gender and Women's Studies**GWS 101 3 hrs.****Gender in Everyday Life**

A multidisciplinary examination of the status of women in the U.S. incorporating the perspectives of psychology, sociology, economics, political science, and philosophy. Guest lecturers, panel discussions, films, and small group discussions. *Individual and Society*, and *U.S. Society* course.

GWS 102 3 hrs.**Global Perspectives on Women and Gender**

A multidisciplinary examination of women's status and roles in various societies outside the U.S.; uses various social science approaches. Guest speakers, films, videos and small discussion groups. *Individual and Society*, and *World Cultures* course.

GWS 110 3 hrs.**Economics of Gender**

The role of gender in the economy; comparisons between men and women in time allocation patterns, education, and earnings; economic implications of diverse family structures. **Same as** ECON 110.

GWS 111 3 hrs.**Women and Literature**

Introduction to reading English and American literature with a focus on gender, genre, and women's roles. **Same as** ENGL 111. *Creative Arts*, and *Individual and Society* course.

GWS 117 3 hrs.**Introduction to Gender, Sexuality, and Literature**

Introduction to literary texts in Western and other traditions that explore issues of gender and sexuality. **Same as** ENGL 117. *Creative Arts*, and *Individual and Society* course.

GWS 120 3 hrs.**Study of Gender, Class, and Political Issues in German Texts**

Portrayal of relationships between men and women, classes, and political interest groups in German literature. **Same as** GER 120. No credit toward a major or minor program offered by the Department of Germanic Studies. Readings, lectures, and discussions in English. *Individual and Society*, and *World Cultures* course.

GWS 192 3 hrs.**From the Convent to the Streets: Latin American Women Writers in Translation**

Introduction to literature by Latin American women from the seventeenth century to the present. Focus on the role literature has played in the negotiation of gender identities in the private and the public spheres. **Same as** LALS 192 and SPAN 192. No credit toward any major or minor program in Spanish. Taught in English. *Individual and Society*, and *World Cultures* course.

GWS 194 1–3 hrs.**Introductory Topics in Gender and Women's Studies**

Study of a problem, topic, or issue relevant to the interdisciplinary area of gender and women's studies. Content varies. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term.

GWS 202 3 hrs.**Comparative Social Movements**

International social movements involving issues of women, gender, and sexuality. Content varies. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** GWS 101 or GWS 102 or consent of the instructor.

GWS 203 3 hrs.**Sexuality and Community: Lesbians, Gay Men, and Contemporary Society**

Lesbian/gay studies; current personal, political, and cultural issues, including: coming out, hate crimes, military, AIDS, families, religion, activism, representations in literature, film, and media.

GWS 204 3 hrs.**Gender and Popular Culture**

Analysis of representations of gender and sexuality in popular and material culture, using contemporary theories. Focus is on U.S. popular culture. **Same as** COMM 204. **Prerequisite(s):** Sophomore standing or above; or consent of the instructor.

Recommended background:

Credit or concurrent registration in GWS 101 or credit or concurrent registration in COMM 102 or credit or concurrent registration in COMM 103. *Individual and Society*, and *U.S. Society* course.

GWS 211 3 hrs.**Gender and Sexual Orientation in Greek and Roman Literature**

Ancient perceptions of gender roles and sexual orientation as they appear in the major authors of Greece and Rome. **Same as** CL 211. **Prerequisite(s):** Sophomore standing or above. **Recommended background:** CL 102.

GWS 214 3 hrs.**Sex and Gender in World Cultures**

Comparative study of sex roles, gender identity, and male-female relationships, emphasizing biological, ecological, ideological, and symbolic factors associated with cross-cultural variability. **Same as** ANTH 214. **Prerequisite(s):** 3 hours of social sciences or consent of the instructor. *Individual and Society*, and *World Cultures* course.

GWS 224 3 hrs.**Gender and Society**

Sociological perspectives on gender as a factor in social stratification; gender role acquisition; individual and social consequences of changing social definitions of gender roles. **Same as**

SOC 224. **Prerequisite(s):** SOC 100 or GWS 101 or GWS 102. *Individual and Society*, and *U.S. Society* course.

GWS 232 3 hrs.**Sex Roles: Moral and Political Issues**

Philosophical inquiry into controversies surrounding the changing roles of men and women. **Same as** PHIL 232.

GWS 238 3 hrs.**Biology of Women**

An evolutionary perspective on the biology of women from conception to menopause, in light of current research on genetics, hormones, and development. Topics include sexual differentiation, sex differences, and life history. **Same as** ANTH 238. **Prerequisite(s):** Grade of C or better in ANTH 105; or consent of the instructor. *Natural World—No Lab* course.

GWS 244 3 hrs.**Women in Russian Literature**

Major works by and about women in Russian literature: experiences of women and societal attitudes toward them. **Same as** RUSS 244. Taught in English. *Creative Arts*, and *World Cultures* course.

GWS 252 3 hrs.**Sexuality in America: Historical Perspectives**

Sexuality as a force in history. Topics include Victorianism, marriage and courtship, sexual subcultures, censorship and purity crusades, popular culture, and various "sexual revolutions." **Same as** HIST 252. *Past*, and *U.S. Society* course.

GWS 259 3 hrs.**The History of American Women**

Cultural, social, economic developments of gender relationships and women's lives from the seventeenth century to the present; political and ideological responses; feminism. **Same as** HIST 259. *Individual and Society*, *Past*, and *U.S. Society* course.

GWS 261 3 hrs.**Reading Black Women Writing**

Examines inscriptions of race, gender, class, and sexuality as they shape the literary and critical practices of nineteenth- and twentieth-century black women writers. **Same as** AAST 261 and ENGL 261. Previously listed as GWS 470. **Prerequisite(s):** Grade of C or better in AAST 100 or grade of C or better in AAST 110 or grade of C or better in AAST 111 or grade of C or better in ENGL 118 or grade of C or better in ENGL 119 or grade of C or better in ENGL 240; or consent of the instructor.

GWS 262 3 hrs.**Constructions of Gender, Race, Health, and Human Rights**

Explores issues at the intersections of gender, race, and sexuality through the lens of health in both U.S. and non-U.S. contexts. **Prerequisite(s):** GWS 101 or

GWS 102; and sophomore standing or above; or consent of the instructor. *Individual and Society*, and *World Cultures* course.

GWS 272 3 hrs.**Race, Gender, and Sexuality**

The course will focus on the various ways that African American Studies has conceptualized issues of gender and sexuality. **Same as** AAST 272. **Prerequisite(s):** AAST 100. *Individual and Society*, and *U.S. Society* course.

GWS 275 3 hrs.**Gender in Latin America**

Latin American women in historical perspective from pre-Columbian and Iberian societies to the present. **Same as** LALS 275 and POLS 275. *World Cultures* course.

GWS 276 3 hrs.**Latinas in the United States**

Socioeconomic conditions and cultural experiences of Latinas in the U.S. Historical and contemporary views of labor, health, education, family, identity formation, and leadership. **Same as** LALS 276 and SOC 226.

GWS 290 3 hrs.**Topics in the Study of Sexuality**

Exploration of a topic concerning the subject of sexuality. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term.

GWS 292 3 hrs.**History and Theories of Feminism**

An introduction to feminist theory and practice throughout the world from the 19th century to the present. **Same as** HIST 292. **Recommended background:** GWS 101 or GWS 102.

GWS 294 1–3 hrs.**Topics in Gender and Women's Studies**

Study of a problem, topic, or issue relevant to the interdisciplinary area of gender and women's studies. Content varies. May be repeated to a maximum of 9 hrs. **Prerequisite(s):** Consent of the instructor or one gender and women's studies course.

GWS 304 3 hrs.**Male-Female Communication**

Speech differences and universals across genders. Talk in male-female interaction. Communication in romantic relationships. Gender issues in work settings. **Same as** COMM 304. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201 and COMM 203; or approval of the department.

GWS 311 3 hrs.**Gender and Sexuality in Early Christianity and Judaism**

Examination of the root of contemporary perspectives on gender and sexuality in the early traditions of Judaism and Christianity including the Bible, the Epic of Gilgamesh, the Church Fathers, the Talmud, and legends of the saints. **Same as** JST 311 and RELS 311.

GWS 315 3 hrs.
Psychology of Women and Gender

Critical examination of research on women and gender across the life span, including psychological aspects of reproduction, and the way that gender shapes cognition, sexuality, family, friendship, and work experiences. **Same as PSCH 315.** **Prerequisite(s):** Grade of C or better in PSCH 242 or consent of the instructor.

GWS 356 3 hrs.
Constitutional Law: Women, Gender, and Privacy

A multidisciplinary examination of U.S. constitutional law and politics in shaping issues of gender, privacy, race, and sexual orientation; including reproduction, labor, sexual harassment, political participation, and women and crime. **Same as AAST 356 and POLS 356.** **Prerequisite(s):** Grade of C or better in POLS 101 or grade of C or better in POLS 112 or grade of C or better in AAST 100 or grade of C or better in AAST 103 or grade of C or better in GWS 101; or consent of the instructor.

GWS 361 3 hrs.
Gender Theory

Survey of theories of gender in culture. **Same as ENGL 361.** **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or GWS 101 or GWS 102; or consent of the instructor. **Recommended background:** ENGL 117.

GWS 362 3 hrs.
Queer Theory

Survey of theoretical concerns and historical issues that inform and shape the field of Queer Studies. **Same as ENGL 362.** **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or GWS 203; or consent of the instructor.

GWS 363 3 hrs.
Gender and Sexuality in Literature

A survey of works that take the status of gender and sexuality as one of their central thematic or aesthetic concerns. **Same as ENGL 363.** **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or GWS 101 or GWS 102; or consent of the instructor. **Recommended background:** ENGL 117.

GWS 390 3 hrs.
Feminism and Social Change

An examination of the historical development of feminist models of social change, as well as strategies of contemporary feminist activism. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** GWS 101 and GWS 102 and junior standing; or consent of the instructor.

GWS 394 3 hrs.
Intermediate Topics in Gender and Women's Studies

Study of a problem, topic, or issue relevant to the interdisciplinary area of gender and women's studies at the intermediate level. Content varies. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor or one course in gender and women's studies.

GWS 396 1-3 hrs.
Independent Study/Research

Independent study or research in specialized area of women's studies or gender-related scholarship. Extensive reading and individual research projects. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** Junior standing and consent of the instructor.

GWS 403 3 OR 4 hrs.
Culture and Sexuality: Cultural History of Same-Sex Relations

Lesbian/gay studies; issues in the history of (homo)sexuality; cultural and historical analysis of same-sexuality in several periods, including our own. **Same as HIST 403.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or consent of the instructor.

GWS 406 3 OR 4 hrs.
Politics of Race, Gender, and Class

Formation of social status categories, individual and collective identity construction, the mechanisms of group-based marginalization and stigmatization; relationship between social status categories. **Same as AAST 406.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AAST 100 or GWS 102 or GWS 101; or graduate or professional standing; or consent of the instructor.

GWS 413 3 OR 4 hrs.
French Feminist and Gender Theory

An introduction to French theories of gender, including feminisms influenced by Lacanian psychoanalysis, political philosophy, and multicultural studies. **Same as FR 413.** 3 undergraduate hrs. 4 graduate hrs. May be used for credit in the French major only with consent of the director of undergraduate studies. Taught in English. Students who intend to use French 413 toward the Major in French must complete assignments in French. **Prerequisite(s):** FR 301 or FR 302; or consent of the instructor.

GWS 419 3 hrs.
Public Health Aspects of Sexuality and Women's Health

An overview of human sexuality from a public health view with special emphasis on family planning, sexuality, and behavior effects on women's health. **Same as CHSC 419.** **Prerequisite(s):** Graduate standing; or junior standing or above with consent of the instructor.

GWS 424 3 OR 4 hrs.
Gender, Crime, and Justice

An in-depth examination of the etiology of female crime and the involvement of females in the criminal justice system as offenders, victims, and workers/professionals. **Same as CLJ 424.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CLJ 101 and CLJ 220; or consent of the instructor.

GWS 425 3 OR 4 hrs.
Sociology of Gender

Variety and change in gender roles; patterns and consequences of gender inequality; gender and sexuality; gender and social institutions such as family, economy. **Same as SOC 424.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 224, or any 100- or 200-level GWS course and an additional 200- or 300-level elective in sociology or gender and women studies; Junior standing or above; or graduate standing; or consent of the instructor.

GWS 428 3 OR 4 hrs.
Asian/Asian American Women in the Global Economy

Examines the racialization and feminization of a global division of labor and focuses primarily on Asian and Asian American women's participation and incorporation as workers and key actors in the development of the global economy. **Same as ASAM 428 and SOC 428.** 3 undergraduate hours; 4 graduate hrs. **Prerequisite(s):** ASAM 125 or ENGL 125 or SOC 125 or AAST 225 or LALS 225 or SOC 225 or ASAM 228 or ASST 228 or SOC 228 or ASAM 290 or two 200-level courses in either SOC, GWS or ASAM, or a combination of these.

GWS 439 3 OR 4 hrs.
Gender and Cultural Production

Issues of gender representation and gender politics examined through the use of theoretical texts or through the study of women authors. **Same as CEES 439 and GER 439.** 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) if topics vary. Taught in English. Students who intend to use GER 439/ GWS 439 toward a degree offered by the Department in Germanic Studies will do assignments in German. Area: Literature/Culture. **Prerequisite(s):** GER 212 or consent of the instructor.

GWS 441 3 hrs.
Introduction to Maternal and Child Health

Title V maternal and child health programs; concepts of delivery risks by age; effective interventions and public sector organization for delivery of MCH services. **Same as CHSC 441.** **Prerequisite(s):** Consent of the instructor. **Recommended background:** Some knowledge of maternal and child health issues.

GWS 443 3 OR 4 hrs.
Topics in Gender, Sexuality, and Literature

Specific study of topics in gender and literature. Content varies. **Same as ENGL 443.** 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363 or GWS 101 or GWS 102; and senior standing or above; or consent of the instructor.

GWS 444 3 OR 4 hrs.
Topics in Theories of Gender and Sexuality

Advanced study of topics related to theories of gender and sexuality. **Same as ENGL 444.** 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363 or GWS 101 or GWS 102; and senior standing or above; or consent of the instructor.

GWS 450 3 hrs.
Women and Mental Health Nursing

Theories of female psychology; women's daily lives and mental health; gender differences in mental illness; strategies for improving women's mental health. **Same as NUSC 450 and NUWH 450.** **Prerequisite(s):** Consent of the instructor. Students enrolled in the College of Liberal Arts and Sciences must have credit in PSCH 100 and either PSCH 270 or PSCH 315 or GWS 315.

GWS 462 3 OR 4 hrs.
AIDS, Politics, and Culture

Introduction to the study of AIDS as a medical, social, political, and cultural construction. Explores the epidemiology of AIDS, the politics of the state's response, how activists have addressed AIDS, and media representations of AIDS. **Same as HIST 462.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GWS 101 or GWS 102 or GWS 203 or GWS 214 and junior standing or above; or consent of the instructor.

GWS 469 3 OR 4 hrs.
Women's Literary Traditions

An exploration of issues such as the female aesthetic; women's popular literature; factors that enable creativity; differences of race and class. **Same as ENGL 469.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of instructor.

GWS 472 3 OR 4 hrs.
Women and Film

Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. **Same as AH 434 and ENGL 472.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ENGL 302 or ENGL 342 or ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of instructor.

GWS 478 3 OR 4 hrs.
Women in Chinese History
Focuses on scholarship on women in Chinese society throughout history, dealing with topics such as marriage and family, literacy, career options, women in revolution, and the historiography of the field. **Same as ASST 478 and HIST 478.** 3 undergraduate hrs. 4 graduate hrs. **Recommended background:** Previous course work in Chinese history or women's studies.

GWS 484 3 OR 4 hrs.
Topics in the History of Women
Specific topics are announced each term. **Same as HIST 484.** 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or gender and women's studies or consent of the instructor.

GWS 485 3 OR 4 hrs.
Gender and Politics
Impact of gender on basic categories of western political thought. Distinctions between reason and emotion, public and private, among others, examined from feminist perspective. **Same as POLS 485.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POLS 190 and one 200-level course in political theory; or consent of the instructor.

GWS 490 3 OR 4 hrs.
Advanced Topics in the Study of Sexuality
Special study at an advanced level of a topic concerning sexuality. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of gender and women's studies, or consent of the instructor.

GWS 494 3 OR 4 hrs.
Advanced Topics in Gender and Women's Studies
Specialized study of a problem, topic or issue relevant to the interdisciplinary area of gender and women's studies at the advanced level. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Senior or graduate standing.

Geography

GEOG 100 3 hrs.
Concepts in Geography
Geographic concepts drawn from the areas of cultural, urban/economic, physical, and regional geography. *Individual and Society, and World Cultures course.*

GEOG 101 3 hrs.
World Regional Geography
Culture areas of the world; regional patterns of the utilization of resources; global, cultural, economic, and political variations. *Individual and Society, and World Cultures course.*

GEOG 141 3 hrs.
Environmental Geography
Survey of the state of the global environment, the measurement of its condition, and prospects for the future. *Individual and Society course.*

GEOG 151 4 hrs.
Introduction to Cultural Geography
Spatial patterns concerning human origin, divergence and convergence in historical perspective. Special reference to humans and the landscapes they create through their attitudes, objectives and technical skills. *Individual and Society, and World Cultures course.*

GEOG 161 3 hrs.
Introduction to Economic Geography
Geographies of primary, secondary, and tertiary activities, environmental and spatial bases of production, distribution and consumption, current and evolving patterns of land use and urbanization. *Individual and Society, and World Cultures course.*

GEOG 175 4 hrs.
The Making of Maps
Roles of mapping in selected historical and contemporary human endeavors, including navigation, exploration, governmental activities, resource development, and communication. Maps as reflections of need and technology.

GEOG 202 3 hrs.
Geography of the United States and Canada
Environmental conditions, natural resources, and cultural patterns within the two countries; focus on the physical landscapes, human occupancy and interregional linkages of selected subareas. *Individual and Society, and U.S. Society course.*

GEOG 203 3 hrs.
Human Geography of Latin America including the Caribbean Region
Culture, settlement, political and economic development problems in Latin America, with special attention to Puerto Rico, the Caribbean Region, and Mexico. **Same as LALS 217.** *Individual and Society, and World Cultures course.*

GEOG 204 3 hrs.
Geography of East, Southeast, and South Asia
Focuses on the cultural, political, and economic expressions of place in Asia and the complex blend of environment and development, ethnicity and policy, and cooperation and disassociation. **Recommended background:** GEOG 100 or GEOG 101.

GEOG 206 3 hrs.
Geography of the CIS (formerly the USSR)
Physical and cultural landscapes; regional analysis of resources and economy; the geographic basis of the area's role in world affairs.

GEOG 207 3 hrs.
Ancient Civilizations of Mexico and Central America
Analysis and interpretation of the archaeological evidence on the process of development of native civilization in the Mesoamerican area from the beginnings of agricultural settlement to the eve of the Spanish conquest. **Same as ANTH 227 and LALS 258.** **Prerequisite(s):** ANTH 102; or sophomore standing or above; or consent of the instructor.

GEOG 211 3 hrs.
Chicago: An Urban Geography
A geographic overview of the Chicago metropolitan region: physical geography, transportation connections, economy, trade territory, and patterns of settlement and land use. Field trips are required. *Individual and Society, and U.S. Society course.*

GEOG 215 3 hrs.
A Global Geography of Cities
Comparative urbanization. Development and pattern of world urbanization; causes and consequences; spatial articulation of political and economic power in the developed and third worlds. **Prerequisite(s):** GEOG 100 or GEOG 161 or GEOG 211. *Individual and Society, and World Cultures course.*

GEOG 241 3 hrs.
Resource Problems in the United States
Problems of U.S. water, air, and land management; resource demand and supply; pollution problems; agencies involved in monitoring resources. **Prerequisite(s):** GEOG 100 or GEOG 101 or GEOG 141 or GEOG 151 or GEOG 161 or consent of the instructor. *Individual and Society, and U.S. Society course.*

GEOG 251 3 hrs.
Mind and Environment
How humans perceive and appraise conditions and act spatially in the macroenvironment. Environmental learning and behavior in young children. Ethnogeography and environmental perception.

GEOG 273 3 hrs.
Ethnography of Southeast Asia
Survey of selected cultures of mainland Southeast Asia, with emphasis on cultural ecology, tribal formation, and nationalism. **Same as ANTH 273.** *Individual and Society, and World Cultures course.*

GEOG 275 3 hrs.
History of Cartography
Development of cartography from primitive charts to the space age. Major contributions examined as components leading to present technology. **Prerequisite(s):** GEOG 100 or GEOG 175.

GEOG 276 4 hrs.
Cartographic Techniques
Introduction to the practice of cartographic display of areal data. Topics include map characteristics, symbolization, and map preparation.

GEOG 278 4 hrs.
An Applications Approach to Computer Cartography
Selected problems and practices of cartographic display cast in contexts of advantages and limitations confronting map makers using computers. **Prerequisite(s):** GEOG 175 or declared Geography major or consent of the instructor.

GEOG 361 3 hrs.
Areal Organization of Economic Activity
Spatial conditions of economic activity with applications to growth and development of selected geographical areas; transportation impacts on resource exploitation, manufacturing and distribution, and consumers. **Prerequisite(s):** GEOG 100 or GEOG 101; and GEOG 161 or GEOG 241.

GEOG 386 3 hrs.
Elements of Spatial Analysis
Implications of geographic concerns for data gathering and analysis. Spatial sampling and weighting of areal data. Reconciling record and zone inconsistencies when merging data from several sources. **Same as ANTH 386.** **Prerequisite(s):** Consent of the instructor.

GEOG 395 1-3 hrs.
Special Studies in Geography
Readings and reports in selected fields chosen in consultation with the instructor. **Prerequisite(s):** Consent of the instructor.

GEOG 399 1-3 hrs.
Undergraduate Thesis
Required for graduation with departmental distinction. Individual research under the supervision of a faculty member. **Prerequisite(s):** A 3.66 grade point average in geography courses counted toward the major, and consent of the advisor. Completed application form must be submitted to the director of undergraduate studies prior to enrollment. Open only to departmental majors.

GEOG 401 3 OR 4 hrs.
Topics in Regional Geography
Geographic analysis of cultural and environmental systems of a political, economic, or climatic region of the world as defined by the instructor. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** One upper-division course in each of the areas of skills, systematic and regional/urban geography.

GEOG 418 3 OR 4 hrs.
Ethnographic and Qualitative Research Methods

Practical introduction to the techniques of social scientists for research in natural social settings: participant observation/non-participant observation, interviewing, use of documentary sources, etc. **Same as ANTH 418.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above.

GEOG 425 4 hrs.
Field Techniques in Archaeology

Exposure to field methods in archaeology through participation in an actual research project. Students are instructed in field excavation techniques. Usually offered in summer session. **Same as ANTH 425.** May be repeated to a maximum of 8 hrs. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 426 or GEOG 426.

GEOG 426 4 hrs.
Laboratory Techniques in Archaeology

Exposes students to laboratory methods in archaeology through the analysis of excavated materials. Students are instructed in laboratory techniques. **Same as ANTH 426.** May be repeated to a maximum of 8 hrs. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 425 or GEOG 425.

GEOG 429 3 OR 4 hrs.
Archaeological Methods

This course will familiarize students with various methodologies used by archaeologists and geoarchaeologists. Course will concentrate on a different method each time it is taught. Course information: **Same as ANTH 429.** 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register for more than one section per term.

GEOG 431 3 OR 4 hrs.
Advanced Landform Geography

Genesis of surficial landforms and processes that sculpt them. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 131 or EAES 101 or consent of the instructor.

GEOG 432 3 OR 4 hrs.
Geomorphology and Archaeology

Relevance of geomorphic processes and landform development to archaeology; role of geomorphology in archaeological surveys, paleogeographic reconstruction, and archaeological interpretation. Elements of geoarchaeology. **Same as ANTH 421.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 131 or EAES 101 or consent of the instructor.

GEOG 441 3 OR 4 hrs.
Topics in Resource Management and Policy

Selected topics dealing with environmental problems at local, regional, or global levels. Topics vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** GEOG 341 or GEOG 361 or consent of the instructor.

GEOG 442 3 OR 4 hrs.
Environmental Hazards and Risks

Environmental risks of natural and technological hazards; causes and consequences to people; social theories of risks; coping mechanisms used to reduce risk. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 251 or GEOG 441 or consent of the instructor.

GEOG 444 3 hrs.
Management of Solid and Hazardous Wastes

Management of solid and hazardous waste, including radioactive waste: landfills, incineration, recycling, composting, source reduction, groundwater and air pollution impacts, control, regulations, siting, health impacts. **Same as CME 423 and EOHS 472.**

GEOG 453 3 OR 4 hrs.
Seminar in Cultural Ecology

Cultural ecology and cultural evolution, emphasizing peasant farming and other subsistence systems. Soil management under shifting and sedentary agriculture. **Same as ANTH 453.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 101 or GEOG 151 or consent of the instructor.

GEOG 455 3 OR 4 hrs.
Quantitative Methods

Introductory statistics course in statistical methods for anthropological problem solving. Primary emphasis is on univariate and bivariate statistics, such as means standard deviations, correlation, chi square, t-tests, and simple regressions. **Same as ANTH 455.** 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

GEOG 461 3 OR 4 hrs.
Location and Land Use

Environmental, demographic, and institutional influences on land availability/use at global/local scales; geographies of production/use intensity; market/governmental controls over land/users. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 361 or consent of the instructor.

GEOG 464 3 OR 4 hrs.
Geographic Modeling of Transportation Systems

Discussions of the principles of spatial interaction, emphasizing passenger movements, commodity flows, the practicality of network analysis, and the impact of

transportation facilities on land use and regional development. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 100 and GEOG 161.

GEOG 470 6 hrs.
Educational Practice with Seminar I

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.

Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

GEOG 471 6 hrs.
Educational Practice with Seminar II

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.

Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in GEOG 470, and approval of the department.

GEOG 475 4 hrs.
Thematic Cartography

Discussion and projects involving representation of real-world areal patterns; preservation of geodetic, locational and informational relationships; information generalization and reconstruction; computer software, and programs for computer-assisted cartography. **Prerequisite(s):** GEOG 276 or GEOG 278 or consent of the instructor.

GEOG 477 4 hrs.
Remote Sensing of the Environment

Principles and practices of processing and interpretation of remotely sensed imagery, including aerial photographs, radar, and multispectral satellite images. Hands-on use of image-processing software. **Same as ANTH 477.** Extensive computer use required.

GEOG 478 4 hrs.
Mapping with Microcomputers

Microcomputer applications including computer principles for mapping, alternative design for coordinate files, kinds of devices for mapping, direct control of devices for mapping, characteristics and limitations of mapping programs. **Same as ANTH 484.** **Prerequisite(s):** GEOG 475 or consent of the instructor.

GEOG 481 4 hrs.
Geographic Information Systems I

Components and performance properties of geographic information systems. Geographic hierar-

chies and data structures.

Problems and solutions in handling large geographic files. Geocoding. **Same as ANTH 481.** **Prerequisite(s):** GEOG 100 and one from GEOG 278, GEOG 386, IDS 100; or consent of the instructor.

GEOG 482 4 hrs.
Geographic Information Systems II

Application of raster- or grid-based geographic information systems to the spatial analysis of landscapes. **Same as ANTH 482.**

GEOG 483 4 hrs.
Geographic Information Systems III

Problems encountered in the analysis and portrayal of geographic data. Topics include taxonomy, regionalization, trend surface analysis, time series, markov probabilities, and computer cartographic procedures for displaying output from analytic procedures. **Same as ANTH 483.** **Prerequisite(s):** GEOG 482 or ANTH 482 or consent of the instructor.

GEOG 484 3 OR 4 hrs.
Qualitative Methods in Geographic Research

Use of qualitative methods in geographic research. Research design choices, data collection and analysis, writing. Applications in environmental and urban geography. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GEOG 481 or Geography major or minor or consent of instructor.

GEOG 485 4 hrs.
Computer Cartography

The fundamentals of cartography and cartographic design. The use of state-of-the-art, Windows-based computer mapping software for querying and displaying cartographic data contained in GIS databases. **Same as ANTH 485.**

GEOG 486 4 hrs.
Analysis of Geographic Patterns

Analytical methods for evaluating arrangements of points, lines, and subareas across regions. Development of noncentral measures of spatial association as an alternative to correlation analysis. **Prerequisite(s):** GEOG 482 or consent of the instructor.

GEOG 491 3 OR 4 hrs.
History and Philosophy of Geography

The philosophy of geography, its theory, and research techniques. Analysis of bibliographic sources; criticism of papers on assigned topics. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Declared major or minor in Geography; or consent of the instructor.

GEOG 496 1–4 hrs.**Internship**

Professional field experience with an agency or organization in the private or public sector on projects related to the student's area of specialization. **Same as** ANTH 496. May be repeated to a maximum of 8 hrs. Only 4 hours of credit may be applied toward the Minor in Geography. **Prerequisite(s):** Declared Major in Anthropology, Minor in Geography or full graduate standing in Anthropology or Geography and consent of the faculty advisor, head of the department, or the director of internship programs.

Germanic Studies**GER 100 3 hrs.****Introduction to Germanic Cultures and Literatures**

Introductory texts on culture and literature of German-speaking countries are studied in the context of their European and international significance. No credit toward a major or minor program offered by the Department of Germanic Studies. Lectures, discussion, and readings in English. *Creative Arts, and World Cultures course.*

GER 101 4 hrs.**Elementary German I**

Introductory exposure to language and culture of German-speaking countries with use of current materials. Credit is not given for GER 101 if the student has credit for GER 106. **Prerequisite(s):** For students who have not studied German or placement as determined by test score.

GER 102 4 hrs.**Elementary German II**

Continuation of GER 101. Increased exposure to language and culture of German-speaking countries, with use of current materials. Credit is not given for GER 102 if the student has credit for GER 106. **Prerequisite(s):** Grade of C or better in GER 101; or appropriate score on the department placement test.

GER 103 4 hrs.**Intermediate German I**

Continuation of GER 102 or GER 106. Intensive exposure to the language and culture of German-speaking countries, with use of current materials. Credit is not given for GER 103 if the student has credit for GER 107. **Prerequisite(s):** Grade of C or better in GER 102 or grade of C or better in GER 106; or appropriate score on the department placement test.

GER 104 4 hrs.**Intermediate German II**

Continuation of GER 103. Final intensive exposure to the language and culture of German-speaking countries, with use of current materials. Credit is not given for GER 104 if the student has credit for GER 107.

Prerequisite(s): Grade of C or better in GER 103; or appropriate score on the department placement test.

GER 106 8 hrs.**Intensive Elementary German**

Accelerated course, including intensive exposure to language and culture of German-speaking countries with use of current materials. Credit is not given for GER 106 if the student has credit for GER 101 or GER 102. Equivalent to GER 101 and GER 102 combined.

Prerequisite(s): For students who have not studied German or placement as determined by test score.

GER 107 8 hrs.**Intensive Intermediate German**

Accelerated course, including intensive exposure to language and culture of German-speaking countries, with use of current materials. Credit is not given for GER 107 if the student has credit for GER 103 or GER 104. Equivalent to GER 103 or GER 104 combined. **Prerequisite(s):** Grade of C or better in GER 106; or appropriate score on the department placement test.

Recommended background:

Grade of B or better in GER 102 or grade of B or better in GER 106.

GER 120 3 hrs.**Study of Gender, Class, and Political Issues in German Texts**

Portrayal of relationships between men and women, classes, and political interest groups in German literature. **Same as** GWS 120. No credit toward a major or minor program offered by the Department of Germanic Studies. Readings, lectures, and discussions in English. *Individual and Society, and World Cultures course.*

GER 122 3 hrs.**Minority Perspectives in the Germanic Context**

Investigation of the challenges and/or opportunities of multicultural societies by examining in a sociohistorical context texts created by members of Europe's ethnic, religious, and national minorities. **Same as** JST 122. No credit toward a major or minor program offered by the Department of Germanic Studies. Lectures, discussion, and readings in English. *Creative Arts, and World Cultures course.*

GER 123 3 hrs.**Introduction to Yiddish Culture and Literature**

Yiddish culture in Europe and the U.S. in sociohistorical context. Focus on the role of Yiddish in conceptions of secular, cultural, religious, national Jewish identities. **Same as** JST 123.

No credit toward a major or minor program offered by the Department of Germanic Studies. Lectures, discussion, and readings in English. *Creative Arts, and World Cultures course.*

GER 125 3 hrs.**Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature and Film.**

Literature and films on European Jewish responses to anti-Semitism and persecution in a historical context to reveal the condition of post-Enlightenment German-speaking Jewish and Yiddish-speaking societies. **Same as** JST 125. No credit toward a major or minor program offered by the Department of Germanic Studies. Taught in English. *Past, and World Cultures course.*

GER 161 3–16 hrs.**German Language Studies**

A four-week summer course taken in a German-speaking country. May be repeated to a maximum of 16 hrs.

Prerequisite(s): Approval of the department.

GER 211 3 hrs.**Advanced German I**

Advanced training on effective communication, reading, and writing strategies based on authentic written and oral texts. Emphasis on refining accuracy of expression. Area: language. **Prerequisite(s):** GER 104 or GER 107 or the equivalent.

GER 212 3 hrs.**Advanced German II**

Advanced training on effective communication, reading, and writing strategies based on authentic written and oral texts. Emphasis on refining accuracy of expression. Area: language. **Prerequisite(s):** GER 211 or the equivalent.

GER 214 3 hrs.**German Conversation and Pronunciation**

Focuses on developing and refining effective communication skills by emphasizing pronunciation, idiomatic expressions, and monitoring grammatical errors. May be repeated. Area: language. **Prerequisite(s):** GER 104 or GER 107 or the equivalent.

GER 215 3 hrs.**Business German**

Practical vocabulary and oral and written communication for business and industry. Area: language or culture. **Prerequisite(s):** GER 104 or GER 107 or the equivalent.

GER 217 4 hrs.**German Cinema**

German cinema as communication and art; its production, reception and ideological perspectives. Taught in English. No knowledge of German required. Area: literature/culture. *Creative Arts, and World Cultures course.*

GER 218 3 hrs.**Opera in Germanic Cultures: From Mozart to Berg**

Major social and cultural developments and trends in the history of opera in Germany and Austria with emphasis on the development of European national identities. Taught in English. No knowledge of German required. Students who intend to use GER 218 toward an undergraduate major or minor in the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** For majors and minors in the Department of Germanic Studies only: GER 211. *Creative Arts, and Past course.*

GER 219 3 hrs.**Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture**

Investigation of fairy tales and myths and their contribution to societal structure. The focus is on the meaning and influence of Germanic myths and fairy tales. Taught in English. Area: literature/culture. No knowledge of German required. Students who intend to use GER 219 toward an undergraduate major or minor in the Department of Germanic Studies will do assignments in German. *Creative Arts, and Past course.*

GER 240 3 hrs.**Classical German Thought from Kant to Nietzsche**

A survey of classical German thought from Kant through Nietzsche. Area: literature/culture. Lectures, discussion, and readings in English. No knowledge of German required. Students who intend to use GER 240 toward an undergraduate major or minor in the Department of Germanic Studies will do assignments in German. *Individual and Society, and Past course.*

GER 290 3 hrs.**Introduction to Germanic Literature**

Focus on texts of different time periods and genres, with emphasis on developing techniques for analyzing literature in its historical context. Area: literature/culture. Taught in German. **Prerequisite(s):** GER 211; or consent of the instructor.

GER 299 0–17 hrs.**Germanic Study Abroad**

Provides credit for foreign study in German-speaking countries. Proposal for Study Abroad must have prior approval of Department of Germanic Studies and College of Liberal Arts and Sciences. Final determination of credit made upon completion of work. May be repeated. May be repeated for a maximum of 34 hours of credit per academic year. **Prerequisite(s):** Sophomore standing or above; and approval of the department and approval of the College of Liberal Arts and Sciences. In exceptional cases students may be permitted to take this course after the first freshman semester. Students must be in good academic standing.

GER 300 1 hr.
Writing in the Study of German

Perfecting skills of written self-expression in English. **Prerequisite(s):** Junior or senior standing and approval of the department. Must be taken concurrently with a literature or culture course that receives credit toward a major offered by the Department of Germanic Studies, as specified in the Schedule of Classes. Restricted to majors and minors in the Department of Germanic Studies.

GER 310 3 hrs.
Practice in German Language Skills

Develops advanced communicative language skills. May be repeated. Only majors and minors outside the Department of Germanic Studies may repeat this course for a maximum of 6 hours of credit. Area: language. **Prerequisite(s):** GER 212 or the equivalent.

GER 311 3 hrs.
Contemporary Germanic Culture and Society

Exploring texts, films, and other media sources in the areas of politics, science, technology, arts, commerce, and popular culture in German-speaking countries. Area: literature/culture. **Prerequisite(s):** GER 211 or the equivalent.

GER 315 3 hrs.**Advanced Business German**

Extensive practice in the writing of business correspondence and formal presentations. **Prerequisite(s):** GER 211; and GER 215; and sophomore standing or above; or consent of the instructor.

GER 316 3 hrs.
Periods of Germanic Literature and Culture

The study of literary works and other texts representative of a historical period. May be repeated to a maximum of 9 hours if topics vary. Students may register in more than one section per term. Taught in English. Area: literature/culture.

GER 318 3 hrs.**Topics in Germanic Literatures and Cultures**

Prominent persons, genres, themes, or movements in the areas of Germanic literature, ideas, and art. Topics vary. May be repeated to a maximum of 9 hours if topics vary. Area: literature/culture. **Prerequisite(s):** GER 211 or the equivalent.

GER 333 3 hrs.
Topics in Genres in Germanic Studies

The study of genres, such as novel, drama, poetry, autobiography, philosophy; and critical reflections on the genre. May be repeated to a maximum of 9 hours if topics vary. Students may register in more than one section per term. Area: literature/culture. **Prerequisite(s):** GER 211 or the equivalent.

GER 370 3 hrs.
Introduction to the Theory and Practice of German Cultural Studies

Introduction to the field of Germanic studies; theoretical approaches and methods; overview of literature; perspectives of German-speaking cultures. Area: literature/culture. **Prerequisite(s):** GER 211 or the equivalent.

GER 398 3 hrs.
Honors Project

Independent study. May not be taken in the term in which student expects to graduate. **Prerequisite(s):** Completion of 12 hours of courses toward the major, with a grade point average of at least 3.60 in these courses, and prior approval of the department. Restricted to majors in the Department of Germanic Studies.

GER 399 1–3 hrs.
Independent Study

Individual study under faculty direction for qualified students with special interests and needs not met by regularly offered courses. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

GER 400 3 OR 4 hrs.
German for Reading Knowledge

Preparation for the Graduate Proficiency Exam. Basic components of German grammar, sentence structure, and vocabulary. Selected texts in humanities, social sciences, and natural sciences. 3 undergraduate hrs. 4 graduate hrs. Credit may not be applied toward a degree or minor offered by the Department of Germanic Studies. Does not satisfy the graduation requirement in foreign languages.

GER 401 3 OR 4 hrs.
Advanced Practice in German Language Skills

Communicative use of German techniques for understanding written and spoken texts, practicing conversation and writing

texts, such as essays, compositions, letters, and e-mail. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Only majors and minors outside the Department of Germanic Studies may repeat this course for a maximum of 6 hours of credit. Area: language. **Prerequisite(s):** GER 212, or the equivalent. **Recommended background:** Credit or concurrent registration in GER 310.

GER 404 3 OR 4 hrs.
Yiddish for Reading Knowledge

Preparation for the Graduate Proficiency Exam. Basic components of Yiddish grammar, sentence structure, and vocabulary. Selected texts in the original language will be studied. 3 undergraduate hrs. 4 graduate hrs. Does not satisfy the graduation requirement in foreign languages. **Prerequisite(s):** GER 211; or consent of the instructor or graduate standing.

GER 407 3 OR 4 hrs.
Theoretical and Research Foundations of Communicative Language Teaching

Focuses on theory and practice of communicative language teaching and explores current approaches of task-based instruction, testing, and media-enhanced instruction. 3 undergraduate hrs. 4 graduate hrs. Taught in English. Pedagogical examples are in German. Ten hours of high school observation required. Area: language. **Prerequisite(s):** GER 212 or the equivalent.

GER 408 3 OR 4 hrs.
Introduction to Translation Theory

The study of translation theory and its application to translating German texts of various types into English. Appropriate for students who want to become translators. 3 undergraduate hrs. 4 graduate hrs. Area: language. **Prerequisite(s):** GER 212 or the equivalent, or graduate standing.

GER 411 3 OR 4 hrs.**The City as Cultural Focus**

Interdisciplinary study of urban culture with focus on German-speaking countries. **Same as** CEES 411. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s). Taught in English. No knowledge of German required. Students who intend to use GER 411 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** For majors and minors in the Department of Germanic Studies only: GER 212 or the equivalent or consent of the instructor.

GER 420 3 OR 4 hrs.
Germanic Cultural Studies I: Genres

Concentration on a genre, with stress on cultural analysis and theoretical inquiry. 3 undergrad-

uate hrs. 4 graduate hrs. May be repeated up to 2 time(s) if topics vary. Students who intend to use GER 420 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** GER 212 or consent of the instructor.

GER 421 3 OR 4 hrs.
Germanic Cultural Studies II: Authors, Movements, Periods

Critical analysis of texts in the biographical, social, cultural, and historical context. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s) if topics vary. Students who intend to use GER 421 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** GER 212 or consent of the instructor.

GER 422 3 OR 4 hrs.
Germanic Cultural Studies III: Themes

Explores themes in German-speaking societies, such as the family, xenophobia, crime, and science, with stress on literary analysis and interpretation. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s) if topics vary. Students who intend to use GER 422 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. **Prerequisite(s):** GER 212 or consent of the instructor.

GER 430 3 OR 4 hrs.
Classical German Philosophy

Introduction to German philosophy and intellectual history through the critical analysis of major authors and texts. **Same as** CEES 430. 3 undergraduate hrs. 4 graduate hrs. Taught in English. Area: literature/culture. **Prerequisite(s):** One 300-level course in Germanic Studies or consent of the instructor.

GER 437 3 OR 4 hrs.
Contemporary Germanic Literature

Literature of the German-speaking world since World War II, with emphasis on current issues and recent critical approaches to literature. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) if topics vary. Area: literature/culture. **Prerequisite(s):** GER 211 or the equivalent, or graduate standing or consent of the instructor.

GER 438 3 OR 4 hrs.
The Faust Legend

Discusses Goethe's Faust within the context of European and non-European literatures. Traces the origins, significance, and interpretation of the Faust figure. **Same as** CEES 438. 3 undergraduate hrs. 4 graduate hrs. Taught in English. Area: literature/culture.

GER 439 3 OR 4 hrs.
Gender and Cultural Production

Issues of gender representation and gender politics examined through the use of theoretical texts or through the study of women authors. **Same as** CEES 439 and GWS 439. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) if topics vary. Taught in English. Students who intend to use GER 439 toward a degree offered by the Department of Germanic Studies will do assignments in German. **Area:** literature/culture. **Prerequisite(s):** GER 212 or consent of the instructor.

GER 448 3 OR 4 hrs.
Foundations of Second Language Teaching

Provides an introduction to second language acquisition research and its implications for communicative language teaching. Emphasis is on creating activities to develop high school students' communicative abilities in speaking and listening. **Same as** FR 448 and SPAN 448. 3 undergraduate hrs. 4 graduate hrs. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor and three courses at the 200- and 300-levels.

GER 449 3 OR 4 hrs.
Teaching Second Language Literacy and Cultural Awareness

Examines the nature of literacy as a reciprocal relationship between readers, writers, texts, and culture. Students learn the practical and theoretical foundations of classroom teaching of second language reading and writing skills. **Same as** FR 449 and SPAN 449. 3 undergraduate hrs. 4 graduate hrs. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

GER 450 3 OR 4 hrs.
Business Operations in German-Speaking Countries

The political, cultural, historical, and economic environment in which business operates in the German-speaking countries; the effects of this environment on international business. 3 undergraduate hrs. 4 graduate hrs. Knowledge of German not required.

GER 461 0–17 hrs.
German Abroad

Taken in a German-speaking country. Lectures, seminars, and practical work in German language, literature, and civilization. May be repeated to a maximum of 34 hrs. **Prerequisite(s):** GER 104 or the equivalent, a 2.75 overall grade point average, a 3.00 grade point average in Germanic Studies, and approval of the department.

GER 470 3 OR 4 hrs.
Exploring the Field of Germanic Studies

Team-taught. Research in film studies, gender studies, Jewish culture, minorities, literary stud-

ies, intellectual history, applied linguistics in Germanic Studies. Each unit taught by a different faculty member from Department of Germanic Studies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Undergraduate students must obtain approval of the department.

GER 480 3 OR 4 hrs.
Hegel Studies

Studies in the philosophy of Hegel, including principal texts (e.g. Phenomenology), or problems (e.g. critique of metaphysics), or comparative studies (e.g. Hegel's critique of Kant). 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. Taught in English. **Area:** literature/culture. **Prerequisite(s):** GER 430; or consent of the instructor. **Recommended background:** PHIL 224 or PHIL 425.

GER 487 3 OR 4 hrs.
Computer-Assisted Language Learning

An introduction to computer-assisted language learning (CALL): the use of computer technology in second language reading and research. The effectiveness of CALL technology is assessed based on SLA theory and research studies. **Same as** LING 487 and SPAN 487. 3 undergraduate hrs. 4 graduate hrs. Taught in English. Extensive computer use required. **Prerequisite(s):** LING 483 or CI 483 or GER 448 or FR 448 or SPAN 448 or GER 449 or FR 449 or SPAN 449; or SPAN 502 or FR 502 or the equivalent; and senior standing or above.

GER 492 0–12 hrs.
Internship in International Business

Student placement in an international organization or firm in a German-speaking country or its U.S. subsidiary or division. Satisfactory/Unsatisfactory grading only. May be repeated with approval. Approval to repeat course granted by the department. **Prerequisite(s):** GER 211; and consent of the instructor and a GPA of 2.00. **Recommended background:** Concurrent registration in GER 493 or registration in GER 493 in the semester immediately following.

GER 493 1–4 hrs.
Internship Seminar: Business

Academic component of the internship experience. Studies in the field of the internship and further investigation of related topics. May be repeated with approval. Approval to repeat course granted by the department. A maximum of 3 hours of credit may be applied toward an undergraduate degree offered by the Department of Germanic Studies, and a maximum of 4 hours of credit may be applied toward a graduate degree offered by the Department of Germanic Studies. **Prerequisite(s):** GER 211 and credit or concurrent registration in GER 492 and consent of the instructor and a grade point average of 2.00.

GER 494 6 hrs.
Educational Practice with Seminar I

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

GER 495 6 hrs.
Educational Practice with Seminar II

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in GER 494, and approval of the department.

Guaranteed Admissions Medicine**GAMD 200 1 hr.**
GPPA Special Topics in Medicine

Exploration of the interplay of scientific foundations of medicine, the skills of the physician-patient interaction, and the necessary use of emerging medical technologies. May be repeated for credit. Students may register for more than one section per term with the approval of the College of Medicine.

Health Information Management**HIM 317 4 hrs.**
Principles of Health Information Management

Introduction to the data elements that comprise the patient's health record. Includes data collection, processing and records management. Lab practice.

HIM 319 4 hrs.
Alternative Health Records

Health information systems in alternative care settings, including records management, quality assessment, and special registries for diagnoses and other patient care classifications. Directed practice. **Prerequisite(s):** HIM 310 and HIM 317.

HIM 320 2 hrs.
Technical Affiliation

Orientation to health information management practice via assignments in affiliated institution's medical record departments. **Prerequisite(s):** HIM 317.

HIM 329 3 hrs.
Legal Aspects of Health Information Management

Principles of law, confidentiality, and ethics, and their application in the healthcare field with particular reference to health records.

HIM 337 4 hrs.
Analysis of Healthcare Data

Healthcare and research statistics including data display. Collection, evaluation, and interpretation of healthcare data will be covered. Includes a laboratory section.

HIM 343 3 hrs.
Quality Evaluation and Management

Examination of processes, internal and external to an organization, used to measure, evaluate, and improve the quality, efficiency and effectiveness of healthcare. Directed practice. **Prerequisite(s):** HIM 310 and HIM 317 and HIM 329.

HIM 361 4 hrs.
Human Resources Management

Emphasis on personnel management, including hiring, discipline, union relations, inservice education, productivity measurement. Students develop and present an inservice program. **Prerequisite(s):** Consent of the instructor.

HIM 367 3 hrs.
Systems Analysis

Fundamentals and tools of systems analysis. Students participate in a systems analysis project for directed practice experience. Focus on healthcare computer applications and facilities design and layout. **Prerequisite(s):** Completion of 44 semester hours of health information management course work.

HIM 374 3 hrs.
Health Information Research

Student research project applying research principles and methodology to clinical data. Use of statistical software in laboratory section. Presentation of findings in written articles and oral presentation. **Prerequisite(s):** HIM 337.

HIM 377 2 hrs.
Current Issues in Health Information Management

Discussion of current issues relevant to the health information management profession. **Prerequisite(s):** Completion of 44 semester hours of health information management course work or consent of the instructor.

HIM 384 5 hrs.
Clinical Practicum

Supervised management activities in an affiliated healthcare facility allowing the student to develop insight, understanding, and skill in medical record/health information practices, procedures, and administration. **Prerequisite(s):** Completion of 44 semester hours of health information management course work or consent of the instructor.

HIM 386 1–5 hrs. Independent Study

An optional course where students perform lab work, fieldwork, and/or in-depth descriptive studies regarding topics related to health information management. May be repeated to a maximum of 5 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor and enrollment in Health Information Management or Health Informatics program.

HIM 410 3 hrs. Introduction to the Healthcare System

Overview of the U.S. Health Services System, including its organization and management, economic support system, health-care workforce, and delivery system. Previously listed as HIM 310. Extensive computer use required. Meets eight weeks of the semester. Taught partially or fully online. Students must have an active UIC netid with valid password and access to a computer and the Internet.

HIM 432 3 hrs. Coding and Classification Systems

Introduction to nomenclatures and classification systems with an emphasis on the ICD-9-CM coding system. Other selected systems also discussed. Previously listed as HIM 332. Extensive computer use required. Meets eight weeks of the semester. Taught partially or fully online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** BHIS 405 and HIM 451.

HIM 433 4 hrs. Coding and Reimbursement Systems

ICD-9-CM coding for reimbursement, CPT-4/HCPSC coding, data quality management and management reporting. Previously listed as HIM 333. Extensive computer use required. Meets eight weeks of the semester. Taught partially or fully online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** BHIS 405 and HIM 432.

HIM 451 4 hrs. Health Information Management Theory and Practice

Introduction to the data elements and health information systems that comprise the patient's health record in acute and alternative settings, including records management and registries. Extensive computer use required. Meets eight weeks of the semester. Taught online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** Credit or concurrent registration in HIM 410 or equivalent experience.

HIM 452 4 hrs. Quality Management and Data Analysis

Examination of processes used to measure and improve the quality and effectiveness of healthcare, including healthcare and research statistics and data display. Extensive computer use required. Fieldwork required. Meets eight weeks of the semester. Taught online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** HIM 410 and HIM 451 and HIM 454.

HIM 453 4 hrs. Principles of Management and Human Resources

Principles of management with emphasis on business functions, procedures, personnel management, workforce development and productivity measurements as applied to healthcare settings. Extensive computer use required. Meets eight weeks of the semester. Taught online. Students must have an active UIC netid with valid password and access to a computer and the Internet.

HIM 454 3 hrs. Legal Aspects, Risk Management, and Security of Health Information

Principles of law, confidentiality, and ethics, and their application to health records, including risk management and security in clinical information systems. Extensive computer use required. Meets eight weeks of the semester. Taught online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** BHIS 460.

HIM 455 4 hrs. Health Information Systems Analysis and Design

Advanced topics in information technology and systems in healthcare. Collection, analysis, and management of healthcare data. Fundamentals and tools of systems analysis and design. Extensive computer use required. Fieldwork required. Meets eight weeks of the semester. Taught online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** BHIS 460 and HIM 454.

HIM 481 2 hrs. Healthcare Financial Management

An introduction to the principles of healthcare finance, sources of healthcare revenue, expenses, and budgeting. Previously listed as HIM 381. Extensive computer use required. Meets eight weeks of the semester. Taught partially or fully online. Students must have an active UIC netid with valid password and access to a computer and the Internet. **Prerequisite(s):** BHIS 480 or HIM 453 or equivalent experience.

Hebrew

HEB 101 4 hrs. Elementary Hebrew I

Introduction to the vocalization, basic vocabulary, and grammatical structure of the Hebrew language. Spoken and written Hebrew are both stressed. **Prerequisite(s):** For students who have not studied Hebrew or placement as determined by test score or consent of instructor.

HEB 102 4 hrs. Elementary Hebrew II

The second part of an introduction to the study of the basic vocabulary and grammatical structure of the Hebrew language. Spoken Hebrew is also stressed. **Prerequisite(s):** HEB 101 or adequate performance on the placement test or consent of the instructor.

HEB 103 4 hrs. Intermediate Hebrew I

The second year of Hebrew language study. Study of Hebrew grammar with emphasis on sentence structure for speaking and writing Hebrew. **Prerequisite(s):** HEB 102 or adequate performance on the placement test or consent of instructor.

HEB 104 4 hrs. Intermediate Hebrew II

Focused study of Hebrew grammar and reading comprehension. Emphasis on writing and speaking Hebrew with fluency. **Prerequisite(s):** HEB 103 or adequate performance on the placement test or consent of the instructor.

Hindi-Urdu

HNUR 101 4 hrs. Elementary Hindi-Urdu I

Introduction to and practice in speaking and comprehending spoken Hindi-Urdu and in reading and writing Hindi-Urdu in Devanagari script. Four additional half hours each week in the language laboratory. **Prerequisite(s):** For students who have not studied Hindi-Urdu, or placement as determined by test score, or consent of the instructor.

HNUR 102 4 hrs. Elementary Hindi-Urdu II

Continues HNUR 101. Speaking and comprehending Hindi-Urdu. Reading and writing in both Devanagari script and Urdu script. Four additional half hours each week in the language laboratory. **Prerequisite(s):** HNUR 101; or appropriate score on the department placement test; or consent of the instructor.

HNUR 103 4 hrs. Intermediate Hindi-Urdu I

This course builds on the foundation of HNUR 101 and HNUR 102. Emphasis will be placed on advanced structures, reading unedited texts in both Devanagari (Hindi) and Nastaliq (Urdu) and the development of oral and aural competency. Two

additional hours each week in the language laboratory.

Prerequisite(s): HNUR 102 or the equivalent, or consent of the instructor.

HNUR 104 4 hrs. Intermediate Hindi-Urdu II

A continuation of HNUR 103. Modern prose literature and poetry in Hindi-Urdu and an introduction to the language of films. Emphasis on developing oral and aural competency. Two additional hours each week in the language laboratory. **Prerequisite(s):** HNUR 103; or consent of the instructor.

HNUR 196 1–4 hrs. Independent Study

Independent study under faculty direction for qualified students with special interests and needs. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** Consent of the instructor.

History

HIST 100 3 hrs.
Western Civilization to 1648
 Introduction to the development of Western civilization and the modern world: ancient medieval and early modern history. *Past course.*

HIST 101 3 hrs.
Western Civilization since 1648
 Introduction to the development of Western civilization in the early modern and modern world. *Individual and Society, and Past course.*

HIST 103 3 hrs.
American Civilization to the Late Nineteenth Century
 Exploration and settlement; colonial society; Revolution, Constitution, and new nation; sectionalism, slavery, and Civil War; Reconstruction; growth of urbanization and industrialism; cultural trends, the West. *Past, and U.S. Society course.*

HIST 104 3 hrs.
American Civilization since the Late Nineteenth Century
 Response to urban-industrial society; expansionist foreign policy; political and social reform; race and ethnicity; Depression and World Wars; Cold War; recent trends. *Past, and U.S. Society course.*

HIST 106 3 hrs.
The World since 1400
 Overview of historical developments creating an interconnected world. Explorations, rise of capitalism, European colonialism, nationalism and development, the predicaments of postcolonial societies. *Same as INST 106. Past, and World Cultures course.*

HIST 109 3 hrs.
East Asian Civilization: China
 An introduction to Chinese civilization, including history, philosophy, and religions from earliest times to 1500. *Same as ASST 109. Past, and World Cultures course.*

HIST 110 3 hrs.
East Asian Civilization: Japan
 An overview of Japanese history from earliest times to the mid-twentieth century: social structure, economic change, political institutions, religion, and culture. *Same as ASST 110. Past, and World Cultures course.*

HIST 114 3 hrs.
Topics in World History
 Introduction to history through global events and the historical development of diverse cultural, religious, social, economic, and political institutions. *Same as INST 114. May not be repeated for credit. Past course.*

HIST 115 3 hrs.
Introduction to North American Indian History
 The history of North American Indians from before contact with Europeans through the late twentieth century. The interactions between Europeans and

American Indians in ways that foreground the experiences and perspectives of indigenous peoples. *Same as NAST 115. Past, U.S. Society, and World Cultures course.*

HIST 116 3 hrs.
Freshman Seminar: Special Topics
 An introduction to the study of history through special topics and the use of primary source materials. *Past course.*

HIST 117 3 hrs.
Understanding the Holocaust
 Holocaust of European Jewry as the result of anti-Semitic ideology and the development of modern German political forces; implementation of the Final Solution. *Same as JST 117. Individual and Society, and Past course.*

HIST 141 3 hrs.
African Civilization
 Introduction to history and historical methods through the study of African history. *Same as AAST 141. Past, and World Cultures course.*

HIST 150 3 hrs.
Catholicism in U.S. History
 The Catholic experience in the United States from its colonial origins to the present. *Same as CST 150 and RELS 150. U.S. Society course.*

HIST 161 3 hrs.
Introduction to Latin American History
 Introduction to major themes in Latin American history from pre-Columbian society and the European conquest to the present. *Same as LALS 161. Past, and World Cultures course.*

HIST 177 3 hrs.
Middle Eastern Civilization
 Introduction to the culture and society of the Middle East, with special attention to the development of Islam and the consequences of Westernization. *Past, and World Cultures course.*

HIST 202 3 hrs.
The Ancient World: Greece
 Greece from the Mycenaean through the Hellenistic periods; political, social, economic, and religious life of the Greek city-state and the Hellenistic kingdoms. *Same as CL 202. Past course.*

HIST 203 3 hrs.
The Ancient World: Rome
 Rome from its origins to the end of the Roman Empire; emphasis on transformation of Rome from city-state to world empire, with attention to social, cultural, and economic background. *Same as CL 203. Past course.*

HIST 204 3 hrs.
Greek Art and Archaeology
 Contributions of archaeological excavations to the study of ancient Greece, 600 BC to 31 BC. Architecture, sculpture, and painting in their social and historical contexts. *Same as AH 204 and CL 204. Credit is not given for HIST 204 if the student has credit in CL 215.*

Taught in English. *Creative Arts, and Past course.*

HIST 205 3 hrs.
Roman Art and Archaeology
 Contributions of archaeological excavations to the study of ancient Rome and her empire 1000 BC–400 AD. Architecture, sculpture, and painting in their social and historical contexts. *Same as AH 205 and CL 205. Creative Arts, and Past course.*

HIST 206 3 hrs.
The Earlier Middle Ages
 Europe from the decline of the Roman Empire to the year 1000. Emphasis on the integration of cultures during the Germanic migration and on the development of a distinctive medieval civilization. *Individual and Society, and Past course.*

HIST 207 3 hrs.
The Later Middle Ages
 Europe from the eleventh to the fifteenth centuries. Emphasis on high medieval culture, the development of national monarchies, European expansion and its decline. *Individual and Society, and Past course.*

HIST 209 3 hrs.
The Byzantine Empire
 The East Roman Empire from its creation by Diocletian and Constantine to its conquest by the Ottoman Turks. *Same as GKM 209.*

HIST 211 3 hrs.
Europe: 1500 to 1715
 Social, economic, political, and cultural analysis of western Europe in the sixteenth and seventeenth centuries, from the Renaissance to the Enlightenment. *Individual and Society, and Past course.*

HIST 212 3 hrs.
Europe: 1715 to 1815
 Europe from the death of Louis XIV to Napoleon's fall, with special emphasis on building of states, urban development, and political change.

HIST 213 3 hrs.
Europe: 1815 to 1914
 Social, economic, and political history of Europe from the Congress of Vienna to the World War I. *Individual and Society, and Past course.*

HIST 214 3 hrs.
Europe: 1914 to 1945
 War origins; the Russian revolution and communist autocracy; the rise of European Fascism; the dilemmas of the democracies; intellectual resistance 1939–45; wartime diplomacy. *Individual and Society, and Past course.*

HIST 216 3 hrs.
Military History: War since Napoleon
 The doctrine, technology, strategy, and tactics of military and naval conflict in the nineteenth and twentieth centuries.

HIST 217 3 hrs.
Introduction to United States Military History
 Analytical study of American military history, doctrine, strategy, and tactics from their origin through the present. Emphasis on leadership, strategy, the principles of war, and growth of the military in the US. *Same as MILS 217.*

HIST 220 3 hrs.
Modern Germany since 1848
 Unification and industrialization in the nineteenth century; world wars and the development of the two Germanies in the twentieth century. *Individual and Society, and Past course.*

HIST 222 3 hrs.
England to 1689
 England from the Celtic immigration to the Glorious Revolution. *Individual and Society, and Past course.*

HIST 223 3 hrs.
Modern Britain since 1689
 History of Britain from the Glorious Revolution to the present. *Individual and Society, and Past course.*

HIST 224 3 hrs.
France: 1500 to 1715
 French society and culture in the formative period, from the reign of Francis I to that of Louis XIV. *Individual and Society, and Past course.*

HIST 225 3 hrs.
France: 1715 to 1848
 Major political, social, and economic forces in French history 1715 to 1848, including the Ancien Regime, the Enlightenment, the French Revolution, Napoleon, and the Restoration. *Individual and Society, and Past course.*

HIST 226 3 hrs.
France since 1848
 An investigation into the major political, social, and economic forces at work in French history from 1848 to the present. *Individual and Society, and Past course.*

HIST 227 3 hrs.
Spain: 1469 to 1808
 The political, socioeconomic, and cultural development of Spain from the reign of Ferdinand and Isabella to the War of Independence. *Same as LALS 227. Individual and Society, and Past course.*

HIST 228 3 hrs.
Spain since 1808
 Loss of the colonies, liquidation of the Ancien Regime, national integration, sociopolitical polarization, the Civil War, and the Franco regime. **Same as** LALS 228. *Individual and Society, and Past course.*

HIST 229 3 hrs.
Africa and its Diasporas
 This course on the African diaspora critically analyses the cultural, economic, geographic, and historical implications of population movements from Africa from the 15th century to the present. **Same as** AAST 229. **Prerequisite(s):** AAST 100 or AAST 241 or HIST 241 or AAST 242 or HIST 242 or AAST 247 or HIST 247 or AAST 248 or HIST 248. *Past, and World Cultures course.*

HIST 233 3 hrs.
History of East Central Europe and the Balkans
 Political, socioeconomic, and cultural developments in the Balkans and the region between the German and Russian states from the medieval period to the present. *Individual and Society, and Past course.*

HIST 234 3 hrs.
History of Poland
 Political, socioeconomic, and cultural developments since the first Polish state, the union with Lithuania, the struggle for independence, Communist rule to the present. **Same as** POL 234. *Individual and Society, and Past course.*

HIST 236 3 hrs.
Russia to 1812
 Surveys the major political, social, economic, and cultural developments from the beginnings of Russian history to the Napoleonic invasion.

HIST 237 3 hrs.
Russia since 1812
 Surveys the major political, social, economic, and cultural development from the Napoleonic invasion to the collapse of the Soviet Union. *Individual and Society, and Past course.*

HIST 241 3 hrs.
Precolonial Africa
 Development of human civilization; the rise of kingdoms and territorial states; migration of peoples; the spread and impact of Islam; west African trading networks. **Same as** AAST 241. *Past, and World Cultures course.*

HIST 242 3 hrs.
Modern Africa
 The effect of European partition and colonialism; African military and political resistance; economic imperialism; the rise of nationalism; the problems of independence. **Same as** AAST 242. *Past, and World Cultures course.*

HIST 247 3 hrs.
African American History to 1877
 Survey of major social, economic, political, and cultural developments in African American history from the rise of the Atlantic Slave Trade to Reconstruction. **Same as** AAST 247. **Prerequisite(s):** One course in African American studies or history, or consent of the instructor. *Past, and U.S. Society course.*

HIST 248 3 hrs.
African American History since 1877
 Survey of major social, economic, and political developments in African American history since Reconstruction. Topics include Jim Crow, black leadership, migration, civil rights, and nationalism. **Same as** AAST 248. **Prerequisite(s):** One course in African American studies or history, or consent of the instructor. *Past, and U.S. Society course.*

HIST 250 3 hrs.
American Ethnic History
 The transplanted cultures of Asian, African, and European immigrants in the American urban setting with special attention to their social, cultural, and behavioral differences.

HIST 251 3 hrs.
History of Race Relations in America
 An examination of American racial thought and racial discrimination to determine how the content and function of both have changed over time. **Same as** AAST 200 and LALS 251.

HIST 252 3 hrs.
Sexuality in America: Historical Perspectives
 Sexuality as a force in history. Topics include Victorianism, marriage and courtship, sexual subcultures, censorship and purity crusades, popular culture, and various "sexual revolutions." **Same as** GWS 252. *Past, and U.S. Society course.*

HIST 253 3 hrs.
The Worker in American Life
 Introduction to the major historical transformations in the lives of American working people and the ideas, movements, and organization through which they have defined a collective response to changing conditions.

HIST 254 3 hrs.
Topics in Urban History
 The field of urban history through a variety of topics at the introductory level. Specific topics to be announced each term. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** At least one history course at the 100-level.

HIST 255 3 hrs.
History of Chicago
 Development from frontier outpost to postindustrial metropolis; economic, social, political, and cultural changes and institutions; suburbanization and deindustrialization. *Past, and U.S. Society course.*

HIST 256 3 hrs.
Religious Experiences in American History
 A survey of the varieties of religious experience in American history from the sixteenth to the twentieth centuries, with emphasis on social and cultural consequences. **Same as** RELS 256.

HIST 257 3 hrs.
History of Illinois
 Social, economic, and political history of Illinois with attention to the frontier, Lincoln, Civil War, industrialization, agriculture and Chicago.

HIST 258 3 hrs.
Topics in Intellectual History
 Intellectual history, focusing on the development of ideas in their political, social, and cultural contexts or the relationship between diverse fields, such as science, philosophy, and religion. May be repeated if topics vary. Consent of the instructor required to repeat course.

HIST 259 3 hrs.
The History of American Women
 Cultural, social, economic developments of gender relationships and women's lives from the seventeenth century to the present; political and ideological responses; feminism. **Same as** GWS 259. *Individual and Society, Past, and U.S. Society course.*

HIST 260 3 hrs.
American Indians in Popular Culture: Native Americans in Print, Film, and Electronic Media
 Considers the history of representations of American Indian people, in print, performance, film, and electronic media, and over the course of the 19th and 20th centuries. **Same as** NAST 260. **Prerequisite(s):** Sophomore standing or above; and approval of the department. **Recommended background:** Grade of B or better or concurrent registration in HIST 115 or grade of B or better or concurrent registration in NAST 115. *Creative Arts, and U.S. Society course.*

HIST 261 3 hrs.
Latin America to 1850
 A survey of the pre-Columbian and early national periods. **Same as** LALS 261. *Past, and World Cultures course.*

HIST 262 3 hrs.
Latin America since 1850
 Latin American socioeconomic, political, and cultural development since 1850 with emphasis on major countries and regions. **Same as** LALS 262. *Past, and World Cultures course.*

HIST 263 3 hrs.
African American Intellectual History
 Introduction to key figures, developments, and debates in African American intellectual history. **Same as** AAST 263. **Prerequisite(s):** AAST 100. *Individual and Society, and Past course.*

HIST 265 3 hrs.
Mexico: 1400 to 1850
 Social, economic, political, and cultural development of Mexican society from pre-Hispanic roots through Spanish conquest to independence and its aftermath. **Same as** LALS 265. *Past, and World Cultures course.*

HIST 266 3 hrs.
Mexico since 1850
 Revolution and evolution in the making of modern Mexican society. **Same as** LALS 266. *Past, and World Cultures course.*

HIST 271 3 hrs.
Late Imperial China: 1500 to 1911
 A detailed survey of China's late imperial period, covering a broad range of issues from state institutions and elite power, to popular culture and peasant revolt. **Same as** ASST 271. *Past, and World Cultures course.*

HIST 272 3 hrs.
China since 1911
 Twentieth-century China from 1911 to the present, including warfare; areas of intellectual inquiry; and changes in government, family, and the role of women. **Same as** ASST 272. *Past, and World Cultures course.*

HIST 273 3 hrs.
Japan to 1600
 Topical survey from earliest times to 1600: political and economic institutions, ideology, class structure, gender, culture, religions, and warfare. **Same as** ASST 273. *Past, and World Cultures course.*

HIST 274 3 hrs.
Japan since 1600
 Topical overview of the development of modern Japan: political consolidation, economic growth, international relations, ideology, expansion, and colonialism, American occupation, social movements, environment, and law. **Same as** ASST 274. *Past, and World Cultures course.*

HIST 275 3 hrs.
History of South Asia
 An outline of South Asian history from the earliest times to the present, in regional and global contexts. **Same as** ASST 275. *Past, and World Cultures course.*

HIST 276 3 hrs.
Modern South Asia, 1857 to the Present
 Examines anticolonial resistance to British rule starting with the 1857 Revolt, Indian nationalism, and the formation of independent nation-states in South Asia. **Same as** ASST 276. *Past, and World Cultures course.*

HIST 277 3 hrs.
The Middle East to 1258
 Middle Eastern history from the seventh to thirteenth centuries; emphasis on Muhammad's impact; major political, cultural, and intellectual developments. *Past, and World Cultures course.*

HIST 278 3 hrs.
The Middle East since 1258
 Medieval Islamic gunpowder empires and their decline; the challenge of Western hegemony; the emergence of nation states; the costs of modernity; the resurgence of Islam. *Past, and World Cultures course.*

HIST 281 3 hrs.
Topics in Social History
 Specific topics are announced each term. May be repeated if topics vary.

HIST 283 3 hrs.
Topics on Environmental History
 Topics in environmental history at the introductory level. Courses offered will examine environmental processes as they interact with the human environment, trade and politics at the local, national and/or international levels. May be repeated if topics vary.

HIST 285 3 hrs.
Cultural History of Modern Greece: 1453 to the Present
 Survey of the cultural history of modern Greece, from the end of the Byzantine Empire in 1453 to the end of the present. Taught in English. **Same as** GKM 285. *Past course.*

HIST 286 3 hrs.
Modern Greek Cities: Historical-Ethnographic Studies
 This course is designed as an historical and ethnographic survey of the communities and culture of Modern Greek urban centers, from the early modern period to the present. Taught in English. **Same as** GKM 286. *Past course.*

HIST 288 3 hrs.
History of Modern Puerto Rico
 Survey of political and socioeconomic history from 1868 to the present. **Same as** LALS 288.

HIST 290 3 hrs.
Mexican American History
 The political, social, economic, and cultural development of the Mexican people in the U.S. from colonial times until the present. **Same as** LALS 290.

HIST 291 3 hrs.
American Business History
 Business from colonial times to the present: early entrepreneurs, law and business, money and credit, corporations and trust-busting, oligopoly and the dual economy, the service economy and business abroad.

HIST 292 3 hrs.
History and Theories of Feminism
 An introduction to feminist theory and practice throughout the world from the 19th century to the present. **Same as** GWS 292. **Recommended background:** GWS 101 or GWS 102.

HIST 294 3 hrs.
Topics in Catholic History
 An investigation of the impact of human migration and cultural pluralism on Catholicism and an analysis of the role of the Catholic Church in group relations. Topics will vary. **Same as** CST 294 and RELS 294. May be repeated if topics vary.

HIST 295 3 hrs.
Introduction to the History of Science
 Surveys issues in history of science, scientific revolution to present. Topics include rise of experimental argument, Newtonian science; transformations in nineteenth- and twentieth-century science.

HIST 300 3 hrs.
History Methods Colloquium
 Research methodology and analytical writing in the field of history. Students will write and revise at least 3 papers over the course of the semester. Required of all history majors. May not be repeated for credit. **Prerequisite(s):** History major with 9 hours of history credit. Majors are encouraged to take this course as soon as they become eligible.

HIST 320 3 hrs.
Teaching History and the Related Disciplines
 Methods and materials for teaching history and the related disciplines in the secondary schools. Includes field experiences in the learning and teaching of history. **Prerequisite(s):** Consent of the instructor.

HIST 394 3 hrs.
Topics in Catholic History and Culture
 Exploration of various topics in Catholic history and culture. **Same as** CST 394 and RELS 394. **Prerequisite(s):** One course in history or Catholic studies; or consent of the instructor.

HIST 398 3 hrs.
Honors Project
 Student must complete an independent project in one semester; projects will be selected in consultation with the instructor. No more than 9 hours of credit allowed in combination of HIST 398 and HIST 399.

HIST 399 3 hrs.
Independent Study: Special Topics
 Selected topics for individual study. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. If taken in conjunction with HIST 398, the maximum allowed is 6 hours of credit. **Prerequisite(s):** Consent of the instructor prior to registration.

HIST 400 3 OR 4 hrs.
Topics in Ancient History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 401 3 OR 4 hrs.
Topics in Greek History
 Specific topics are announced each term. **Same as** CL 401. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** 3 hours of history or classics.

HIST 402 3 OR 4 hrs.
Topics in Roman History
 Specific topics are announced each term. **Same as** CL 402. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or classics.

HIST 403 3 OR 4 hrs.
Culture and Sexuality: Cultural History of Same-Sex Relations
 Lesbian/gay studies; issues in the history of (homo)sexuality; cultural and historical analysis of same-sexuality in several periods, including our own. **Same as** GWS 403. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or consent of the instructor.

HIST 404 3 OR 4 hrs.
Roman Law and the Civil Law Tradition
 Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. **Same as** CL 404 and CLJ 404. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CLJ 200 or CL 203 or HIST 203 or consent of the instructor.

HIST 405 3 OR 4 hrs.
Herodotus and His World
 Examines the Histories of Herodotus—both the text and the culture of Classical Greece compared to the Near East and Egypt. Course information: **Same as** CL 405. 3 undergraduate

hrs. 4 graduate hrs. **Prerequisite(s):** Sophomore standing or above.

HIST 406 3 OR 4 hrs.
Topics in Medieval History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history, or junior standing or above, or consent of the instructor.

HIST 409 3 OR 4 hrs.
Topics in Early Modern European History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 410 3 OR 4 hrs.
Topics in Modern European History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 415 3 OR 4 hrs.
American Indian Ethnohistory
 Introduction to ethnohistory, an interdisciplinary approach to researching, conceptualizing, and writing American Indian history. The course is organized topically and centers on classic and current monographs and articles. **Same as** NAST 415. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor. **Recommended background:** Courses in cultural anthropology, American Indian anthropology, American Indian literature.

HIST 418 3 OR 4 hrs.
Topics in German History
 Specific topics are announced each term. **Same as** CEES 418. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of European history, or consent of the instructor.

HIST 420 3 OR 4 hrs.
Teaching the Social Sciences
 This course focuses on acquiring and practicing the skills for teaching the social sciences at the secondary level within the context of history. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** 9 hours of credit in the social sciences and approval of the instructor.

HIST 421 3 OR 4 hrs.
Topics in British and Irish History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 6 hours of history or consent of the instructor.

HIST 424 3 OR 4 hrs.
Topics in French History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): One 200-level course in French or European history or consent of the instructor.

HIST 429 3 OR 4 hrs.
Topics in Italian History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 433 3 OR 4 hrs.
Topics in Eastern European History
 Specific topics are announced each term. **Same as** CEES 433. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of European history or consent of the instructor.

HIST 435 3 OR 4 hrs.
Topics in Russian History
 Specific topics are announced each term. **Same as** CEES 435. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of European history or consent of the instructor.

HIST 441 3 OR 4 hrs.
Topics in African History
 Specific topics are announced each term. **Same as** AAST 441. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** 3 hours of African history, African American studies, or consent of the instructor.

HIST 445 3 OR 4 hrs.
History of Islam in the African World
 A comprehensive study of the history of Islam and its role among the people of African descent in sub-Saharan Africa and the United States. **Same as** AAST 445. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

HIST 451 3 OR 4 hrs.
Topics in Colonial American History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of U.S. history or consent of the instructor.

HIST 452 3 OR 4 hrs.
Topics in Revolutionary and Early National United States History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 453 3 OR 4 hrs.
Topics in Nineteenth-Century United States History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 454 3 OR 4 hrs.
Topics in Twentieth-Century United States History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of U.S. history or consent of the instructor.

HIST 455 3 OR 4 hrs.
Topics in Southern History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 456 3 OR 4 hrs.
Topics in the History of Communications
 This course introduces students to major developments in the history of communications, with a focus on the political and cultural dimension of technologies. **Same as** COMM 456. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor. **Recommended background:** At least one history course at the 100-level.

HIST 461 3 OR 4 hrs.
Topics in Latin American History
 Specific topics are announced each term. **Same as** LALS 461. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history, Latin American and Latino studies, or consent of the instructor.

HIST 462 3 OR 4 hrs.
AIDS, Politics, and Culture
 Introduction to the study of AIDS as a medical, social, political, and cultural construction. Explores the epidemiology of AIDS, the politics of the state's response, how activists have addressed AIDS, and media representations of AIDS. **Same as** GWS 462. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** GWS 101 or GWS 102 or GWS 203 or GWS 214 and junior standing or above; or consent of the instructor.

HIST 472 3 OR 4 hrs.
Issues and Events in Twentieth-Century China
 Covers the events, places, people, political movements, ideologies, and issues that shaped twentieth-century China, and considers different approaches to the writing of that history. **Same as** ASST 472. 3 undergraduate hrs. 4 graduate hrs. **Recommended background:** Previous course work in Chinese history at the 100- or 200-level.

HIST 473 3 OR 4 hrs.
Topics in East Asian History
 Specific topics are announced each term. **Same as** ASST 473. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of East Asian history or consent of the instructor.

HIST 475 6 hrs.
Educational Practice with Seminar I
 The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

HIST 476 6 hrs.
Educational Practice with Seminar II
 The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in HIST 475, and approval of the department.

HIST 477 3 OR 4 hrs.
Topics in Middle Eastern History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 478 3 OR 4 hrs.
Women in Chinese History
 Focuses on scholarship on women in Chinese society throughout history, dealing with topics such as marriage and family, literacy, career options, women in revolution, and the historiography of the field. **Same as** ASST 478 and GWS 478. 3 undergraduate hrs. 4 graduate hrs. **Recommended background:** Previous course work in Chinese history or women's studies.

HIST 479 3 OR 4 hrs.
Culture and Colonialism in South Asia
 Examines the emergence of colonial cultures of domination and resistance on the Indian subcontinent from the 18th century to 1947. **Same as** ANTH 479 and ASST 479. 3 undergraduate hrs. 4 graduate hrs.

HIST 480 3 OR 4 hrs.
Topics in Economic History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated.

Students may register in more than one section per term.
Prerequisite(s): 3 hours of history or consent of the instructor.

HIST 481 3 OR 4 hrs.
Topics in Social History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 482 3 OR 4 hrs.
Topics in Migration History
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 483 3 OR 4 hrs.
Topics in the History of Public Policy
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 484 3 OR 4 hrs.
Topics in the History of Women
 Specific topics are announced each term. **Same as** GWS 484. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or gender and women's studies or consent of the instructor.

HIST 485 3 OR 4 hrs.
Topics in African and African American History
 African and/or African American history for students with significant background in the field. Topics vary. **Same as** AAST 481. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. Students may register in more than one section per term.
Prerequisite(s): AAST 247 or AAST 248 or HIST 104 or HIST 247 or HIST 248 or consent of the instructor.

HIST 486 3 OR 4 hrs.
Topics in the History of Science
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 credit hours of history.

HIST 487 3 OR 4 hrs.
Topics in the History of Sexuality
 Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours in history or consent of the instructor.

HIST 488 3 OR 4 hrs.
Topics in Urban History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 489 3 OR 4 hrs.
Topics in Military History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 490 3 OR 4 hrs.
Topics in Diplomatic History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 491 3 OR 4 hrs.
Topics in Constitutional History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 492 3 OR 4 hrs.
Topics in Intellectual History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 493 3 OR 4 hrs.
Topics in Historiography
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 494 3 OR 4 hrs.
Topics in Political History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 495 3 OR 4 hrs.
Topics in Religious History
Specific topics are announced each term. **Same as** RELS 495. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or consent of the instructor.

HIST 496 3 OR 4 hrs.
Topics in Race, Ethnic, and Minority History
Specific topics are announced each term. **Same as** AAST 496. 3 undergraduate hrs. 4 graduate hrs. May be repeated.
Prerequisite(s): 3 hours of history or consent of the instructor.

HIST 497 3 OR 4 hrs.
Topics in Cultural History
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history or consent of the instructor.

HIST 498 3 OR 4 hrs.
Topics in Quantitative Methods
Specific topics are announced each term. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history or consent of the instructor.

Honors College Courses

HON 101 1 hr.
Freshman Orientation Seminar
Introduction to UIC and Honors College opportunities and resources, with emphasis on strategies for success and current issues in higher education. Satisfactory/Unsatisfactory grading only. Restricted to Honors students.

HON 102 3 hrs.
Honors Core in the Humanities I
The first of a two-course general education credit sequence designed around a central theme. May not be repeated for credit. Restricted to Honors students.

HON 103 3 hrs.
Honors Core in the Humanities II
The second of a two-course general education credit sequence designed around a central theme. May not be repeated for credit. **Prerequisite(s):** HON 102. Restricted to Honors students.

HON 105 3 hrs.
Honors Core in the Social Sciences I
The first of a two-course general education sequence designed around a central theme. May not be repeated for credit. Restricted to Honors students.

HON 106 3 hrs.
Honors Core in the Social Sciences II
The second of a two-course general education sequence designed around a central theme. May not be repeated for credit. **Prerequisite(s):** HON 105. Restricted to Honors students.

HON 107 3 hrs.
Interdisciplinary Honors Core in the Humanities
An interdisciplinary humanities general education course

designed around a central theme. May be repeated to a maximum of 6 hours with approval. Approval to repeat course granted by the Honors College. Restricted to Honors students.

HON 108 3 hrs.
Interdisciplinary Honors Core in the Social Sciences
An interdisciplinary social sciences general education course designed around a central theme. May be repeated to a maximum of 6 hours with approval. Approval to repeat course granted by the Honors College. Restricted to Honors students.

HON 110 3 hrs.
Cross-Disciplinary Honors Core: Social Sciences
One of two related cross-disciplinary courses drawn from the humanities and social sciences. May not be repeated for credit. **Prerequisite(s):** Consent of the instructor. Restricted to Honors students.

HON 111 3 hrs.
Cross-Disciplinary Honors Core: Humanities
One of two related cross-disciplinary courses drawn from the humanities and social sciences. May not be repeated for credit. **Prerequisite(s):** Consent of the instructor. Restricted to Honors students.

HON 120 3 hrs.
Honors Core in Understanding the Individual and Society and Understanding the Past
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the individual and society and understanding the past. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Individual and Society, and Past course.*

HON 121 3 hrs.
Honors Core in Understanding the Individual and Society and Understanding Creative Arts
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the individual and society and understanding the creative arts. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Creative Arts, and Individual and Society course.*

HON 122 3 hrs.
Honors Core in Understanding the Individual and Society and Exploring World Cultures
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the individual and society and exploring world cultures. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Individual and Society, and World Cultures course.*

HON 123 3 hrs.
Honors Core in Understanding the Individual and Society and Understanding U.S. Society
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the individual and society and understanding U.S. society. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Individual and Society, and U.S. Society course.*

HON 124 3 hrs.
Honors Core in Understanding the Past and Understanding the Creative Arts
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the past and understanding the creative arts. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Creative Arts, and Past course.*

HON 125 3 hrs.
Honors Core in Understanding the Past and Exploring World Cultures
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the past and exploring world cultures. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Past, and World Cultures course.*

HON 126 3 hrs.
Honors Core in Understanding the Past and Understanding U.S. Society
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the past and understanding U.S. society. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Past, and U.S. Society course.*

HON 127 3 hrs.
Honors Core in Understanding the Creative Arts and Exploring World Cultures
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the creative arts and exploring world cultures. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Creative Arts, and World Cultures course.*

HON 128 3 hrs.
Honors Core in Understanding the Creative Arts and Understanding U.S. Society
An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the creative arts and understanding U.S. society. May be repeated to a maximum of 6 hrs. Restricted to Honors students. *Creative Arts, and U.S. Society course.*

HON 129 3 hrs.
Honors Core in Exploring World Cultures and Understanding U.S. Society
 An interdisciplinary general education course designed around a central theme. Themes address topics related to exploring world cultures and understanding U.S. society. May be repeated to a maximum of 6 hrs. Restricted to Honors students.
U.S. Society, and World Cultures course.

HON 130 3 hrs.
Honors Core in Analyzing the Natural World and Understanding the Individual and Society
 An interdisciplinary general education course designed around a central theme. Themes address topics related to analyzing the natural world and understanding the individual and society. May be repeated up to 1 time(s). Restricted to Honors students.
Individual and Society, and Natural World—No Lab course.

HON 131 3 hrs.
Honors Core in Analyzing the Natural World and Understanding the Past
 An interdisciplinary general education course designed around a central theme. Themes address topics related to analyzing the natural world and understanding the past. May be repeated up to 1 time(s). Restricted to Honors students.
Natural World—No Lab, and Past course.

HON 132 3 hrs.
Honors Core in Analyzing the Natural World and Understanding the Creative Arts
 An interdisciplinary general education course designed around a central theme. Themes address topics related to analyzing the natural world and understanding the creative arts. May be repeated up to 1 time(s). Restricted to Honors students.
Creative Arts, and Natural World—No Lab course.

HON 133 3 hrs.
Honors Core in Analyzing the Natural World and Exploring World Cultures
 An interdisciplinary general education course designed around a central theme. Themes address topics related to analyzing the natural world and exploring world cultures. May be repeated up to 1 time(s). Restricted to Honors students.
Natural World—No Lab, and World Cultures course.

HON 134 3 hrs.
Honors Core in Analyzing the Natural World and Understanding U.S. Society
 An interdisciplinary general education course designed around a central theme. Themes address topics related to analyzing the natural world and understanding U.S. Society. May be repeated up to 1 time(s). Restricted to

Honors students. *Natural World—No Lab, and U.S. Society course.*

HON 140 3 hrs.
Honors Core in Understanding the Individual and Society
 An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the individual and society. May be repeated to a maximum of 6 hrs. Restricted to Honors students.
Individual and Society course.

HON 141 3 hrs.
Honors Core in Understanding the Past
 An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the past. May be repeated to a maximum of 6 hrs. Restricted to Honors students.
Past course.

HON 142 3 hrs.
Honors Core in Understanding the Creative Arts
 An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding the creative arts. May be repeated to a maximum of 6 hrs. Restricted to Honors students.
Creative Arts course.

HON 143 3 hrs.
Honors Core in Exploring World Cultures
 An interdisciplinary general education course designed around a central theme. Themes address topics related to exploring world cultures. May be repeated to a maximum of 6 hrs. Restricted to Honors students.
World Cultures course.

HON 144 3 hrs.
Honors Core in Understanding U.S. Society
 An interdisciplinary general education course designed around a central theme. Themes address topics related to understanding U.S. society. May be repeated to a maximum of 6 hrs. Restricted to Honors students.
U.S. Society course.

HON 145 3 hrs.
Honors Core in Analyzing the Natural World
 An interdisciplinary general education course designed around a central theme. Themes address topics related to analyzing the natural world. May be repeated up to 1 time(s). Restricted to Honors students.
Natural World—No Lab course.

HON 200 0 hrs.
Honors Lectures
 A series of special noncredit lectures arranged for honors students. Satisfactory/Unsatisfactory grading only. Restricted to Honors students.

HON 201 1 hr.
Honors Seminar
 A series of specially arranged seminars in different areas of interest. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 4 hours with approval. Approval to repeat course granted by the Honors College. **Prerequisite(s):** Enrollment eligibility may vary from section to section, depending upon topic. Restricted to Honors students.

HON 202 0 hrs.
Honors Tutoring
 Provides students with the opportunity to tutor students in approved subjects. Satisfactory/Unsatisfactory grading only. May be repeated with approval. Approval to repeat course granted by the Honors College. **Prerequisite(s):** Approval of the Honors College. Restricted to Honors students.

HON 222 0 hrs.
Honors Activity
 Honors work in an approved course or individual project. Satisfactory/Unsatisfactory grading only. May be repeated. Required each fall and spring term for all Honors College students; optional for Honors College students who complete an Honors activity during the summer session. Restricted to Honors students.

HON 225 0 hrs.
Honors Research
 Individual research not covered by standard courses under close supervision of a faculty member. Satisfactory/Unsatisfactory grading only. May be repeated with approval. Approval to repeat course granted by the Honors College. **Prerequisite(s):** Approval of the Honors College. Restricted to Honors students.

HON 322 0 hrs.
Honors Capstone Activity
 Independent, in-depth examination of an approved topic under the close supervision of a faculty advisor. Satisfactory/Unsatisfactory grading only. May be repeated. Restricted to Honors students.

HON 401 3 hrs.
Advanced Honors Seminar
 Student, faculty, and invited guests act as partners in the in-depth exploration of a focused topic. This interaction is fostered through common readings, written assignments, and open discussions. May be repeated to a maximum of 6 hrs. Students may register for more than one section per term. **Prerequisite(s):** Sophomore standing or above and consent of the instructor. Graduate students may obtain instructor consent. **Recommended background:** HON 201. Restricted to Honors students.

Human Nutrition

HN 110 3 hrs.
Foods
 The principles of food components, component interactions, food selection, preparation, and service.

HN 190 1 hr.
Introduction to Dietetics
 Overview of the dietetics profession: career options, professional development (dietetics portfolio), code of ethics, standards of practice, ADA position papers, the legislative process, and professional resources. **Prerequisite(s):** Junior standing or above.

HN 196 3 hrs.
Nutrition
 Provides a foundation in the basic principles of human nutrition in maintaining and promoting health through good dietary choices.

HN 200 3 hrs.
Nutritional Assessment
 Introduction to the dietetic profession including the nutritional care process. Emphasis on developing basic skills in medical terminology, nutritional assessment, interviewing, counseling, and recording. **Prerequisite(s):** HN 196 and admission to the undergraduate program in human nutrition, or consent of the instructor.

HN 202 2 hrs.
Culture and Food
 Provides a perspective on factors that affect the development of food habits, similarities and differences across cultures, and how the use of foods provides a window to multiculturalism. Previously listed as HN 302.
World Cultures course.

HN 203 1 hr.
Culture and Food Lab
 Practical application of accurately preparing, presenting, and modifying cultural specific foods. Field trip required at a nominal fee. **Prerequisite(s):** Consent of the instructor.

HN 296 3 hrs.
Nutrition and Physical Activity
 Integrates the fundamental principles of nutrition and physical activity to provide students with knowledge of proper nutrition for improving health, fitness, and performance. **Prerequisite(s):** HN 196; or consent of the instructor.

HN 300 3 hrs.
Science of Foods
 Scientific aspects of food and its preparation with emphasis on clinical applications. **Prerequisite(s):** HN 110 or the equivalent or consent of the instructor.

HN 306 4 hrs.**Nutrition Education**

Study of theoretical and applied strategies for instructional planning and assessment that are applied to both group and individual nutrition education. Credit is not given for HN 306 if the student has credit in HN 201 or HN 305. **Prerequisite(s):** HN 200; or consent of the instructor.

HN 307 3 hrs.**Human Nutrition and Metabolism**

Human nutrient requirements and metabolism of carbohydrates, lipids, proteins, vitamins, minerals, and nonnutritive substances found in foods. **Prerequisite(s):** HN 196 and one semester of college-level general chemistry; or consent of the instructor.

HN 308 3 hrs.**Nutrition Science I**

Metabolism, dietary regulation, and requirements for energy, protein, fat, and carbohydrates, including issues of under/over nutrition and regulation of food intake.

Prerequisite(s): HN 196 and credit or concurrent registration in BCHE 307 and credit or concurrent registration in KN 251.

HN 309 3 hrs.**Nutrition Science II**

Continuation of HN 308.

Metabolism, dietary regulation, and requirements for micronutrients such as vitamins and minerals, including issues of under/over nutrition and regulation of food intake. **Prerequisite(s):** HN 308.

HN 311 3 hrs.**Nutrition during the Life Cycle**

Principles of nutrition through the life cycle, including weight management. **Prerequisite(s):** HN 307; or HN 308 and HN 309. Consent of the instructor.

HN 312 2 hrs.**Nutrition during the Life Cycle Practicum**

Clinical practicum which includes rotations in maternal, pediatric, and geriatric outpatient/community settings. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Credit or concurrent registration in HN 311 or consent of the instructor.

HN 318 3 hrs.**Genetic, Molecular, and Cellular Mechanisms of Chronic Diseases**

Addresses the most important mechanisms of pathogenesis, with an emphasis on chronic conditions. The role of inflammation and of genetic variability in modulating disease susceptibility will be addressed in detail.

Prerequisite(s): Credit or concurrent registration in KN 252; and junior standing or above; and approval of the department.

HN 320 4 hrs.**Clinical Nutrition I**

Principles of nutrition, biochemistry, physiology, and pathology related to the management of starvation, obesity and gastrointestinal diseases, cardiovascular disease, and diabetes.

Prerequisite(s): HN 308 and BCHE 307 or the equivalent or consent of the instructor.

HN 321 2 hrs.**Clinical Practice I**

Practical experience in the nutritional management of starvation, obesity, and gastrointestinal diseases. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** HN 308 or consent of the instructor.

Requires concurrent registration in HN 320, or consent of the instructor.

HN 330 3 hrs.**Quantity Food Production**

Lecture/discussion on kitchen layout and design, menu planning, food procurement, storage, production, and service.

Prerequisite(s): HN 202; or consent of the instructor.

HN 332 2 hrs.**Food Service Management**

Application of management principles to food service system functions. **Prerequisite(s):** HN 330.

HN 335 4 hrs.**Food Service Practice**

Clinical experience in kitchen layout and design, menu planning, quantity food production and service, and management of a food service operation.

Satisfactory/Unsatisfactory grading only. Credit is not given for HN 335 if the student has credit for HN 331 or HN 333.

Prerequisite(s): HN 330 and HN 332.

HN 340 1 hr.**Seminar**

Oral presentation of current topics and issues in human nutrition. Guest speakers included. **Prerequisite(s):** HN 308 and HN 309.

HN 341 2 hrs.**The Research Process**

Discussion and application of research methods in development of a practice-oriented research proposal. Written and oral communication included.

Prerequisite(s): SOC 201 or the equivalent, or consent of the instructor.

HN 366 2 hrs.**Genetics, Nutrition, and Health**

A presentation of the basic approaches to molecular and genetic analyses with an emphasis on their relevancy to issues of human nutrition and health. **Prerequisite(s):** BIOS 100; and CHEM 101 or CHEM 112; and junior standing or above; or approval of the department.

HN 396 1–4 hrs.**Independent Undergraduate Study in Human Nutrition**

Study in selected areas of human nutrition carried out under the direction of a faculty member. Exact nature of the project is determined by the selected area of interest. **Prerequisite(s):** Consent of the instructor.

HN 413 3 hrs.**Principles of Delivering Public Health Nutrition Services**

Assessment, planning, and evaluation of community nutrition programs using a systems approach.

HN 420 2 hrs.**Clinical Nutrition II**

Principles of nutrition, biochemistry, physiology, pathology, education, and psychology related to management of selected diseases (renal disease, AIDS and cancer, and pediatrics). **Prerequisite(s):** HN 320; or consent of the instructor.

HN 421 4 hrs.**Clinical Practice II**

Practical experiences in the nutritional management and support of selected disease processes such as cancer, gastrointestinal, and hypermetabolic states.

Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** HN 321 and credit or concurrent registration in HN 420; or consent of the instructor.

HN 422 2 hrs.**Clinical Nutrition III**

Principles of nutrition, biochemistry, physiology, and pathology related to the management of critically ill patients.

Prerequisite(s): HN 309 and HN 420; or consent of the instructor.

HN 423 5 hrs.**Clinical Practice III**

Clinical practicum which focuses on the nutritional management of critically ill patients or specialized patient populations (renal and pediatric patients).

Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** HN 421 and credit or concurrent registration in HN 422; or consent of the instructor.

HN 450 6 hrs.**Professional Practice**

Extended practicum which integrates acquired skills, knowledge, and attitudes in dietetics. Special emphasis on current dietetic issues facing the healthcare professional. Satisfactory/Unsatisfactory grading only.

Prerequisite(s): HN 423; or consent of the instructor.

HN 480 2 hrs.**Field Study**

Provides practical experience to develop/strengthen the student's knowledge and skills in an area of nutrition practice.

Prerequisite(s): HN 410; or consent of the instructor.

Industrial Engineering**IE 198 1–4 hrs.**
Special Topics in Engineering Graphics

Specific topics are announced each term. May be repeated. Students may register in more than one section per term.

Prerequisite(s): Prerequisite may vary by section according to topic.

IE 201 3 hrs.**Financial Engineering**

Principles and techniques of economic analysis in engineering and management science. Basic probability theory and decision problems under risk and uncertainty. **Prerequisite(s):** MATH 181.

IE 312 3 hrs.**Dynamic Systems and Control**

Dynamics of linear systems. Modeling of mechanical, electrical, fluid, and thermal systems. Analysis and design of feedback control systems. Analytical, computer, and experimental solution methods. Time and frequency domain techniques. **Same as** ME 312. **Prerequisite(s):** MATH 220 and PHYS 142; and sophomore standing or above; or approval of the department.

IE 342 3 hrs.**Probability and Statistics for Engineers**

Probability, random variables, mathematical expectation, discrete and continuous distributions, estimation theory, test of hypothesis, and introduction to standard experimental designs. **Prerequisite(s):** MATH 210.

IE 345 3 hrs.**Regression Applications and Forecasting in Engineering**

Single and multiple regression analysis of variance, examination of residuals, introduction to time series analysis, and analytical forecasting techniques; application to engineering system. **Prerequisite(s):** IE 342.

IE 365 4 hrs.**Work Productivity Analysis**

Operations analysis; man-machine relationship; motion study; micromotion study, time study; predetermined time systems; performance rating; standard data techniques; work sampling; wage payment plans. **Prerequisite(s):** Credit or concurrent registration in IE 342.

IE 380 3 hrs.**Manufacturing Process Principles**

Introduction to basic manufacturing processes such as casting, bulk deformation, sheet metal forming, metal cutting. Interaction between materials, design, and manufacturing method. Economics of manufacturing. **Same as** ME 380. **Prerequisite(s):** CME 203.

IE 392 3 hrs.
Undergraduate Research
Research under close supervision of a faculty member. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Consent of the head of the department.

IE 396 4 hrs.
Senior Design I
Systematic approach to the design process. Creative problem solving. Design methodology and engineering principles applied to open-ended design problems with inherent breadth and innovation. **Same as** ME 396. **Prerequisite(s):** Senior standing; completion of all core courses and consent of the instructor.

IE 411 0-4 hrs.
Mechatronics I
Elements of mechatronic systems, sensors, actuators, microcontrollers, modeling, hardware in the loop simulations, real-time software, Electromechanical systems laboratory experiments. **Same as** ME 411. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Senior standing or above or approval of the department.

IE 412 3 OR 4 hrs.
Dynamic Systems Analysis I
Classical control theory, concept of feedback, laplace transform, transfer functions, control system characteristics, root locus, frequency response, compensator design. **Same as** ME 412. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 308.

IE 441 3 OR 4 hrs.
Ergonomics and Human Factors
The study of principles and techniques associated with ergonomic problems. Topics include human information input and processing, human output and control, and ergonomic considerations in safety. **Same as** EOHHS 441. Previously listed as IE 341. 3 undergraduate hours; 4 graduate hrs. **Prerequisite(s):** Credit or concurrent registration in IE 342 or consent of the instructor.

IE 444 3 OR 4 hrs.
Interdisciplinary Product Development I
Cross-functional teams (with students from AD 420/423 and MKTG 594) research and develop new product concepts. Focus on the identification of technologically appropriate product design problems. **Same as** ME 444. 3 undergraduate hrs. 4 graduate hrs. Year-long (with IE/ME 445) project course. **Prerequisite(s):** Senior standing or above; and consent of the instructor.

IE 445 4 hrs.
Interdisciplinary Product Development 2
Cross-functional teams (w/students from AD 420 and MKTG 594) research and develop new product concepts. Focus on solutions to the opportunities identified in IE/ME 444 to functional prototypes. Serves as a replacement for IE/ME 396. **Same as** ME 445. Year-long (with IE/ME 444) project course. **Prerequisite(s):** IE 444 or ME 444; and senior standing or above; and consent of the instructor.

IE 446 3 OR 4 hrs.
Quality Control and Reliability
Principles of statistical quality control, including control by variable and by attribute, construction and use of control charts for variables, fraction defectives and number of defects and use of standard plans, reliability and life cycle testing. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IE 342.

IE 461 3 OR 4 hrs.
Safety Engineering
Human protection systems; accident and emergency handling; manufacturing and service hazard systems. **Same as** EOHHS 460. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IE 342 or consent of the instructor.

IE 463 3 OR 4 hrs.
Plant Layout and Materials Handling
Facilities design functions, computer-aided plant layout, facility location, warehouse layout Minimax location, deterministic and probabilistic conveyor models. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IE 471.

IE 464 0-4 hrs.
Virtual Automation
Fundamentals of manufacturing and automation modeling using CAD/CAM and computer-integrated manufacturing methods; concepts of virtual manufacturing; industrial robots and automated factory models within virtual environments. **Same as** ME 464. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CS 107 or CS 108.

IE 465 0-4 hrs.
Manufacturing Information Systems
Design and implementation of supervisory control and data acquisition systems; manufacturing systems controller and communication networks. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Senior or graduate standing, or consent of the instructor; and familiarity with computer programming.

IE 466 3 OR 4 hrs.
Production Planning and Inventory Control
Principles of demand forecasting, production planning, master scheduling, critical path scheduling, job sequencing, design and

control of deterministic and stochastic inventory systems, material requirement planning. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IE 345 and IE 471.

IE 467 3 OR 4 hrs.
Discrete Event Computer Simulation Application
The solution of industrial application problems by means of discrete event computer simulation. Simulation model building. Input analysis. Output analysis. In-depth study of some specific simulation programming languages, with projects. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IE 342.

IE 468 3 OR 4 hrs.
Virtual Manufacturing
Virtual reality applications in manufacturing systems design, manufacturing applications of networked virtual reality, virtual reality modeling of occupational safety engineering. **Same as** ME 468. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CS 107 or CS 108.

IE 471 3 OR 4 hrs.
Operations Research I
Introduction to operations research, formulation of linear programming problems, simplex methods, duality theory, sensitivity analysis, network models, and integer linear programming. 3 undergraduate hrs. 4 graduate hrs. No graduate credit for Industrial Engineering majors. **Prerequisite(s):** MATH 310.

IE 472 3 OR 4 hrs.
Operations Research II
Nonlinear programming problems, unconstrained optimization search techniques. Kuhn-Tucker theorems, quadratic programming, separable programming, Markov chain, queueing theory, and dynamic programming. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IE 342 and IE 471 or graduate standing.

IE 494 3 OR 4 hrs.
Special Topics in Industrial Engineering
Particular topics vary from term to term depending on the interests of the students and the specialties of the instructor. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** Consent of the instructor.

IE 499 0 hrs.
Professional Development Seminar
Students are provided general information about their role as UIC alumni in society and the role of the University in their future careers. Students provide evaluations of their educational experience in the MIE department. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Open only to seniors; and approval of the department. Must be taken in the student's last semester of study.

Information and Decision Sciences

IDS 200 4 hrs.
Introduction to Management Information Systems
Introduction to concepts and application of information technology for solving business problems and supporting organizational functions. Includes hands-on instruction on use of computer-based productivity tools. **Same as** IDS 100.

IDS 201 3 hrs.
Introduction to Business Programming
Disciplined computer-assisted problem solving. Structured programming, data types and data structures, modularization. Program design for business information- and decision-support. Credit is not given for IDS 201 if the student has credit for MCS 260. **Prerequisite(s):** IDS 200 and MATH 160 or the equivalent courses.

IDS 270 4 hrs.
Business Statistics I
Survey of concepts and techniques for business applications of statistics. Use of computer software for tabulation and analysis of data. **Prerequisite(s):** MATH 160 or MATH 165.

IDS 312 3 hrs.
Business Project Management
An integrative approach to learning how projects contribute to the strategic goals of the organization. Major issues: selecting projects, project management techniques and tools, budgeting, monitoring, risk mitigation, and interpersonal skills. **Prerequisite(s):** IDS 200.

IDS 313 3 hrs.
Internet Applications in Business
Internet business applications in entrepreneurship, finance, accounting, and marketing. Assessing business problems, planning Internet-based solutions, and understanding Web tools. Students interested in further studies can continue with IDS 413.

IDS 331 3 hrs.
Business Analysis Using Spreadsheets
Analyzing business cases using spreadsheet software. Effective and efficient use of Excel. Spreadsheet automation using Visual Basic for Applications. Extensive computer use required. **Prerequisite(s):** IDS 200. **Recommended background:** ACTG 110

IDS 355 3 hrs.
Operations Management
Application of management sciences to the planning and design of production, distribution, and service systems. **Prerequisite(s):** IDS 200 and IDS 270 and ENGL 161 and ECON 218.

IDS 371 3 hrs.
Business Statistics II
 Continuation of survey of statistical concepts and techniques for operational and managerial decisions. Use of computer software for analysis of data.
Prerequisite(s): IDS 270 and MATH 165.

IDS 400 0–4 hrs.
Advanced Business Programming Using Java
 Visual extended business language capabilities, including creating and using controls, menus and dialogs, objects and instances, mouse events, graphics, file-system controls. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 201 or IDS 331 or a programming course in mathematics or computer science, or consent of the instructor.

IDS 401 0–4 hrs.
Business Object Programming Using Java
 Basic concepts in object-oriented programming, such as objects, classes, class inheritance and interfaces, data abstraction and encapsulation, polymorphism, and dynamic binding. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 201 or IDS 331 or the equivalent.

IDS 403 3 OR 4 hrs.
Information Security
 Examine the field of information security to prepare students for their future roles as business decision-makers. Presents a balance of the managerial and technical aspects of information security. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 200 or the equivalent.

IDS 405 3 OR 4 hrs.
Business Systems Analysis and Design
 Theory of analysis, design, and development of information systems; information management and database management systems; data management and analysis; case studies in systems implementation and evaluation. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 201 or IDS 331.

IDS 406 3 OR 4 hrs.
Business Systems Project
 Project experience in a business setting. Analysis, design, development, and evaluation of computer-based business information systems. Project planning, scheduling, and management. Project work at an outside company or University office. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required.
Prerequisite(s): Knowledge of programming and databases; or consent of the instructor.
Recommended background: Familiarity with systems analysis and design (IDS 405).

IDS 410 3 OR 4 hrs.
Business Database Technology
 Computer software techniques used in business with emphasis on information management and database management systems. Data management and analysis. Major types of database management systems, query languages. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 201 or IDS 331.

IDS 412 3 OR 4 hrs.
Distributed Business Systems
 Organizational aspects and underlying concepts of distributed business systems, decentralization versus centralization issues, costs of distributed computing, and performance evaluation measures. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 201 or IDS 330; and credit or concurrent registration in IDS 410.

IDS 413 3 hrs.
Internet Technology and Management
 The technologies of World Wide Web development. Topics include: TCP/IP, HTTP, HTML, HTML authoring, XML, ASP programming, client-side programming, and Web 2.0, Web servers, database servers, business application servers, and Internet. Credit is not given for IDS 413 if the student has credit for IDS 424. Extensive computer use required. **Prerequisite(s):** IDS 201 or IDS 331; and IDS 410.

IDS 420 3 OR 4 hrs.
Business Model Simulation
 Simulation analysis of strategic business decision models for investment, marketing, product introduction, and operational policies concerning inventory, production planning, quality assurance and supply chain management. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Credit or concurrent registration in IDS 355; or credit or concurrent registration in IDS 331 or the equivalent.

IDS 422 3 OR 4 hrs.
Knowledge Management Systems
 Computer-based methods for decision support. It aims at providing exposure and insights into a range of approaches and tools for decision aiding, and how they can be utilized in supporting various managerial decision processes. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 410 or consent of the instructor.

IDS 435 3 OR 4 hrs.
Optimization Models and Methods
 Linear, nonlinear, dynamic programming, combinatorial methods. Use of spreadsheet and other software tools. Duality, sensitivity analysis. Models for business operations and planning, computer systems, transportation, finance. 3 undergraduate hrs. 4

graduate hrs. **Prerequisite(s):** IDS 355; and IDS 371 or the equivalent. Business administration students must have declared a major.

IDS 437 3 OR 4 hrs.
Stochastic Methods
 Stochastic processes and other applications of probability theory. Use of spreadsheet and other software tools for analysis, simulation, and decision theory. Models for business operations and planning, computer systems, transportation, finance. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 355 and IDS 371.

IDS 446 3 OR 4 hrs.
Decision Analysis
 Prior and posterior distributions; conjugate priors; value of information; applications to decision making in business. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 371.

IDS 450 0–4 hrs.
Advanced Operations Management
 Application of management science to the operation and control of production, distribution, and service systems. Emphasis on inventory management, production planning, capacity expansion, and demand forecasting. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** IDS 355 or the equivalent. Business administration students must have declared a major.

IDS 454 3 OR 4 hrs.
Introduction to Supply Chain Management
 Supply Chain Management is studied as an information-intensive, integrated system for managing material flows, logistics, and interorganizational partnership to deliver products and services. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 355.

IDS 460 3 OR 4 hrs.
Survey Sampling: Theory and Methods
 Planning and analyzing surveys. Topics include simple random sampling, stratified sampling, systematic sampling, ratio estimation, and cluster sampling. Case studies with applications to real situations. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 371.

IDS 462 3 OR 4 hrs.
Statistical Software for Business Applications
 Statistical software in business applications and data mining. SAS and other packages, such as SPSS, MATLAB, Maple, Splus, B34S, SCA. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): IDS 371 or consent of the instructor.

IDS 470 3 OR 4 hrs.
Multivariate Analysis
 Introduction to the structure and analysis of multivariate data. Emphasis on the multivariate normal model. Regression; tests

concerning multivariate means, classification; discriminant analysis, principal components. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IDS 371; or MATH 310; or MATH 320.

IDS 472 3 OR 4 hrs.
Business Data Mining
 Searching for relationships between variables in databases. Decision trees, cluster analysis, logistic regression, path analysis. Applications to marketing, quality assurance, operations management, human resources. 3 undergraduate hrs. 4 graduate hrs. Credit is not given for IDS 472 if the student has credit for IDS 572. **Prerequisite(s):** IDS 371 or the equivalent.

IDS 473 3 hrs.
Introduction to Risk Management
 Introduction to risk management. Loan and credit management; credit scoring. Risk measurements and reserves; banking and insurance capital requirements, the BASEL accord, tail events, and catastrophic event insurance. Financial contracts and hedging. **Same as** FIN 473. **Prerequisite(s):** FIN 300 and IDS 371.

IDS 474 3 OR 4 hrs.
Quality and Productivity Improvement Using Statistical Methods
 Directed experimentation for quality and productivity improvement, quality surveillance, design, and analysis of two-level factorial experiments and multi-level experiments, data transformation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IDS 371 or consent of the instructor.

IDS 475 3 OR 4 hrs.
Database Accounting Systems
 Concepts and principles of designing database systems to perform accounting functions, applications of microcomputer accounting software packages systems design tools, and computerized transaction cycles. **Same as** ACTG 475. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required.
Prerequisite(s): ACTG 211 and IDS 200.

IDS 476 3 OR 4 hrs.
Business Forecasting Using Time Series Methods
 Autoregressive, moving average, and seasonal models for time series analysis and business forecasting. Forecasting using multivariable transfer function models is also included. **Same as** ECON 450. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IDS 371 or ECON 346 or consent of the instructor.

IDS 478 3 OR 4 hrs.
Regression Analysis
Data collection and exploration; model building; variable least squares; residual analysis; variable selection; multicollinearity; ridge regression; nonlinear regression; nonparametric regression. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** IDS 371.

IDS 494 3 OR 4 hrs.
Topics in Information and Decision Sciences
Topics vary; selected readings; case analysis. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s) if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

IDS 495 4 hrs.
Competitive Strategy
Multidisciplinary analysis of organizational strategy and policy using case method and/or business simulation. Assignments involve extensive library research and oral and written reports. **Prerequisite(s):** Senior standing in the College of Business Administration and completion of all other CBA Core courses, or consent of the instructor.

IDS 499 1–3 hrs.
Independent Study in Information and Decision Sciences
Intensive study of selected topics determined in consultation with the instructor and department head. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** Major in Information and Decision Sciences and consent of the instructor.

Information Technology

IT 101 3 hrs.
Java Programming for Information Technology
Elementary data types, arithmetic and logical operations, control structures and error handling, methods and functions, introduction to object-oriented programming design and implementation. Emphasis is placed on the development of problem-solving skills. **Prerequisite(s):** Grade of C or better in MATH 121. **Recommended background:** CS 100 or basic computer literacy.

IT 201 3 hrs.
Introduction to Computer Configuration and Operating System Software
Introduction to concepts of computer configuration, and operating system software. Comparisons of commercially available CPU families, peripherals, system performance and evaluation. Discussions of technological developments and commercially available systems. **Prerequisite(s):** Credit or concurrent registration in IT 101 or credit or concurrent registration in CS 102 or CS 107.

IT 202 3 hrs.
Web and Multimedia Technology
Introduction to Internet, multimedia concepts, protocols, and tools. HTML document markup language. Web site design. Script programming for interactive Web pages. Creating, editing images, video, and audio for Internet use. Programming exercises. **Prerequisite(s):** Credit or concurrent registration in IT 101 or credit or concurrent registration in CS 102 or CS 107.

IT 301 3 hrs.
Networks and Distributed Computing Technology
Introduction to the use of computers on a network. Installation and configuring of networking components: Firewalls, name-server and gateways. Use of both wired and wireless networks. **Prerequisite(s):** IT 201.

IT 302 3 hrs.
Database Administration and Installation
A study of the use of existing databases (bibliographic and non-bibliographic formats), their data structure, processing and retrieval data, integrity and security, and interface design issues. **Prerequisite(s):** IT 202.

Interdisciplinary Public Health Sciences

IPHS 415 3 OR 4 hrs.
Foundations in Anthropology and Global Health I
Explores the field of cultural medical anthropology and provides a theoretical foundation allowing for understanding and exploration of anthropology's role in international health. **Same as** ANTH 415. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in ANTH 216; and junior standing or above; or consent of the instructor.

IPHS 416 3 OR 4 hrs.
Foundations in Anthropology and Global Health II
Provides an evolutionary and biocultural approach to human biology, physiology, health, and disease. **Same as** ANTH 416. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in ANTH 232; and junior standing or above; or consent of the instructor.

Interdisciplinary Studies in the Arts

ISA 100 1 hr.
Freshman Seminar: Introduction to Interdisciplinary Practice in the Arts
Focuses on methods of making connections in which students will have the opportunity to engage in relevant interdisciplinary inquiry and practice. Satisfactory/Unsatisfactory grading only. Fieldwork required. **Prerequisite(s):** Open only to freshmen.

ISA 200 3 hrs.
Introduction to Interdisciplinary Arts
Introductory topics course that explores the interdisciplinary thematic ties between the arts and humanities. Topics will vary between the visual and performing arts. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** ENGL 161.

ISA 299 0–18 hrs.
College of Architecture and the Arts Study Abroad
Provides credit for foreign study. Student's proposal for study abroad must have prior approval of the major department or school and the College of A&A office. Final determination of credit is made on student's portfolio and completion of work. May be repeated for a maximum of 36 hours per academic year or for a total of 48 hours, all of which must be earned within one calendar year. **Prerequisite(s):** Junior standing or above; and approval of the department, the College of Architecture and the Arts, and the Study Abroad Office.

ISA 300 3 hrs.
Interdisciplinary Topics
Studies in interdisciplinary arts which will explore significant and relevant topics in the visual and performing arts. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** ENGL 161 and junior standing or above.

ISA 400 3 OR 4 hrs.
Advanced Topics in Interdisciplinary Arts
Exploration of advanced topics in interdisciplinary arts which include architecture, art and design, art history, music, and theatre. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time(s).

International Studies

INST 106 3 hrs.
The World since 1400
Overview of historical developments creating an interconnected world. Explorations, rise of capitalism, European colonialism, nationalism and development, the predicaments of postcolonial societies. **Same as** HIST 106. *Past, and World Cultures course.*

INST 114 3 hrs.
Topics in World History
Introduction to history through global events and the historical development of diverse cultural, religious, social, economic, and political institutions. **Same as** HIST 114. May not be repeated for credit. *Past course.*

INST 130 3 hrs.
Introduction to Comparative Politics
Comparative study of political institutions, political culture, and political processes in selected major countries of the world. **Same as** LALS 130 and POLS 130. *Individual and Society, and World Cultures course.*

INST 184 3 hrs.
Introduction to International Relations
Political, military, and economic relations between states, international organizations, and transnational actors. Problems of war, imperialism, and the world economy. Prospects for global cooperation. **Same as** POLS 184. *Individual and Society, and World Cultures course.*

INST 221 3 hrs.
Macroeconomics in the World Economy: Theory and Applications
Determinants of the level of economic activity, inflation, unemployment, international economics, impact of domestic and world economy on business decisions, applications of the theory. **Same as** ECON 221. **Prerequisite(s):** ECON 130, or both ECON 120 and ECON 121; and MATH 160.

INST 250 3 hrs.
Eastern and Western Philosophies of Religion
Eastern and Western philosophies of religion: Hinduism, Buddhism, Judaism, and Christianity. **Same as** RELS 250. *World Cultures course.*

INST 283 3 hrs.
International Political Economy
Political underpinnings and ramifications of international economic relations. Foreign trade policy, multinational corporations, oil, North-South relations, economic warfare. **Same as** POLS 283. **Prerequisite(s):** POLS 184 or INST 184 or consent of the instructor.

INST 284 3 hrs.
International Security
International conflict and cooperation, including war, nationalism, global inequality, and the environment. **Same as** POLS 284. **Prerequisite(s):** POLS 184 or INST 184 or consent of the instructor.

INST 301 3 hrs.
Seminar in International Studies
Seminar in international studies addressing global themes and issues. Content varies. Specific topics are announced each term. May be repeated to a maximum of 6 hours if topics vary. Previously listed as LAS 301. **Prerequisite(s):** Junior standing or consent of the instructor.

INST 333 3 hrs.
International Economics
The balance of payments; fixed, flexible, and multiple exchange rates; capital flows; comparative advantage; tariffs and subsidies; the factor price equalization theorem. **Same as** ECON 333. **Prerequisite(s):** ECON 218 or ECON 220 or ECON 221 or INST 221.

INST 334 3 hrs.
Economic Development
 Characteristics of poor countries, past experience and its relevance, analytical approaches, the role of exposure to foreign factors, planning, and other policies. **Same as ECON 334.** **Prerequisite(s):** ECON 218 or ECON 220 or ECON 221 or INST 221.

INST 349 3 hrs.
Topics in Comparative Politics
 Selected problems in comparative politics. **Same as POLS 349.** May be repeated to a maximum of 6 hours if topics vary. **Prerequisite(s):** POLS 130 or INST 130 and POLS 200.

Italian

ITAL 101 4 hrs.
Elementary Italian I
 Practice in listening and speaking. Development of writing and reading skills. Basic grammar. Credit is not given for ITAL 101 if the student has credit in ITAL 110; or already has taken ITAL 102, ITAL 103 or ITAL 104; or has completed any 200-, 300-, 400-, or 500-level Italian courses; or has placed into ITAL 102 or above. One additional hour each week in the language laboratory. For students without credit in Italian.

ITAL 102 4 hrs.
Elementary Italian II
 Continuation of ITAL 101. Development of communication skills, using basic grammatical structures. Credit is not given for ITAL 102 if the student has credit in ITAL 110; or has already taken ITAL 103 or 104; or has completed any 200-, 300-, 400-, or 500-level Italian courses; or has placed into ITAL 103 or above. One additional hour each week in the language laboratory. In the summer this course may be available in Siena, Italy. **Prerequisite(s):** Grade of C or better in ITAL 101; or appropriate score on the department placement test.

ITAL 103 4 hrs.
Intermediate Italian I
 Greater stress on writing and reading skills. Emphasis on accuracy in oral skills. Finer points of grammar. Credit is not given for ITAL 103 if the student already has taken ITAL 104; or has completed any 200-, 300-, 400-, or 500-level Italian courses; or has placed into ITAL 104 or above. One additional hour each week in the language laboratory. In the Summer this course may be available in Siena, Italy. **Prerequisite(s):** ITAL 102 or ITAL 110; or appropriate score on the department placement test.

ITAL 104 4 hrs.
Intermediate Italian II
 Continuation of ITAL 103. Emphasis on writing and reading skills, without forgoing oral practice. Review of grammar. Credit is not given for ITAL 104 if the student has completed any 200-, 300-, 400-, or 500-level Italian courses. One additional hour each week in the language laboratory. In the Summer this course may be available in Siena, Italy. **Prerequisite(s):** ITAL 103; or appropriate score on the department placement test.

ITAL 180 3 hrs.
Italian Cinema
 Italian films and film movements since World War II and the advent of neorealism as seen through films directed by recognized masters of Italian cinema. Taught in English. Films screened with English subtitles. *Creative Arts course.*

ITAL 190 3 hrs.
Italian Literature in Translation I
 Development from origins through the seventeenth century. Discussion of major works of Boccaccio, Ariosto, Machiavelli. Credit is not given for ITAL 190 if the student has credit in ITAL 210. Credit earned may not be applied toward the Italian major or minor.

ITAL 193 3 hrs.
The Divine Comedy
 An in-depth study of the *Divine Comedy*, read in English, against the philosophical and theological background of the Middle Ages. **Same as CST 193 and RELS 193.** Taught in English. *Creative Arts course.*

ITAL 196 3 hrs.
Totalitarianism, Writing, and Cinema
 An introduction to French, Spanish, and Italian writing and films dealing with the issue of totalitarianism. Various authors are examined within a broad context of European thinking on totalitarianism. **Same as FR 196 and SPAN 196.** Taught in English. Two additional hours for viewing films (every two weeks). **Prerequisite(s):** Consent of the instructor.

ITAL 200 3 hrs.
Conversational Italian
 Intensive practice in conversation to develop oral facility, enrich vocabulary, and improve pronunciation. Language laboratory required. **Prerequisite(s):** ITAL 104 or placement by the department. Intended for students of non-Italian background.

ITAL 201 3 hrs.
Italian Composition and Conversation
 Advanced conversation with emphasis on grammatical accuracy and pronunciation. Practice in translation and free composition. Language laboratory required. **Prerequisite(s):** ITAL 200 or native speaker.

ITAL 210 3 hrs.
Introduction to Reading and Analysis of Italian Literary Texts
 Close reading of Italian prose and poetry, and training in writing of critical analyses. Credit is not given for ITAL 210 if the student has credit in either ITAL 190 or ITAL 191. **Prerequisite(s):** ITAL 104. *Creative Arts course.*

ITAL 230 3 hrs.
Italian Culture and Civilization
 Development of Italian culture from earliest times to the present: philosophy, art, architecture, music, society, cinema, electronic media. **Prerequisite(s):** ITAL 201 or consent of the instructor.

ITAL 240 4 hrs.
Rapid Italian Language for Spanish Speakers
 Comparative linguistic differences between Spanish and Italian; practice in speaking, reading, and writing. **Prerequisite(s):** Native speakers of Spanish, or any 200-level Spanish courses, or consent of the instructor.

ITAL 303 3 hrs.
Advanced Italian Composition and Conversation
 Intensive training in oral and written expression based on the study of contemporary Italian texts. Grammar review. **Prerequisite(s):** ITAL 201.

ITAL 305 3 hrs.
Advanced Italian Grammar
 Systematic study of syntax and morphology. **Prerequisite(s):** ITAL 201 or consent of the instructor.

ITAL 310 3 hrs.
Early Italian Literature and Society
 Representative figures and literary works from the beginning through the sixteenth century, considered in their social, cultural, and literary settings: Petrarch, Boccaccio, Machiavelli, Ariosto, Tasso. **Prerequisite(s):** ITAL 210 or consent of the instructor.

ITAL 311 3 hrs.
Modern Italian Literature and Society
 Italian literary movements through the nineteenth and twentieth centuries, considered in their historical setting. Romanticism and Risorgimento; before and after Fascism: from Verga to Eco. **Prerequisite(s):** ITAL 210 or consent of the instructor.

ITAL 370 1 hr.
Writing and Research in the Major
 Perfecting writing and expository skills in English. Required for majors in the department. **Same as FR 370 and SPAN 370.** **Prerequisite(s):** Junior or senior standing and approval of the department.

ITAL 399 1-3 hrs.
Independent Study
 For majors and minors in Italian who wish to supplement regular courses or undertake individual study projects. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

ITAL 411 3 OR 4 hrs.
Literary Forms in Early Renaissance
 The development of Epic Poetry (Pulci, Boiardo, Ariosto) within the literary, political, and social context (Machiavelli and Castiglione). 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ITAL 310 or consent of the instructor.

ITAL 412 3 OR 4 hrs.
Literary Forms in Late Renaissance and Baroque
 Representative literary works of the genres of the late sixteenth and seventeenth centuries: Epic poem of Tasso and poetry of Marino. The birth of the *Commedia dell'Arte* form. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ITAL 310 or consent of the instructor.

ITAL 421 3 OR 4 hrs.
Modern Italian Literature II
 From Romanticism to Decadentism: emphasis on the work of Leopardi and Manzoni; analysis of poems by Carducci, Pascoli, D'Annunzio, Gozzano. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ITAL 311 or consent of the instructor.

ITAL 422 3 OR 4 hrs.
Contemporary Italian Literature
 The novel from Verismo to Umberto Eco: readings from Verga, Svevo, Moravia, Calvino. Hermetic poetry: emphasis on Ungaretti, Montale, Sereni, Luzi. Theater: From Pirandello to Fo. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ITAL 322 or consent of the instructor.

ITAL 450 3 OR 4 hrs.
Divina Commedia I
 An in-depth study of the *Divine Comedy* against the philosophical and theological background of the Middle Ages. Covers Inferno and half of Purgatorio. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ITAL 310 or consent of the instructor.

ITAL 451 3 OR 4 hrs.
Divina Commedia II
 An in-depth study of the *Divine Comedy* against the philosophical and theological background of the Middle Ages. Covers Paradiso and half of Purgatorio. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ITAL 310 or consent of the instructor.

ITAL 461 6 hrs.
Educational Practice with Seminar I

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

ITAL 462 6 hrs.
Educational Practice with Seminar II

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in ITAL 461, and approval of the department.

ITAL 494 3 OR 4 hrs.
Special Topics

Topics will vary from term to term and may cover such areas as literary theory or culture. **Same as** FR 494 and SPAN 494. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. Taught in English. **Prerequisite(s):** Junior standing or above; and approval of the department.

Japanese

JPN 101 4 hrs.
Elementary Japanese I

Basic grammar. Conversation. Reading and writing in the two Japanese syllabaries. Introduction to selected Chinese characters. Four additional half hours each week in the language laboratory.

JPN 102 4 hrs.
Elementary Japanese II

Continuation of JPN 101. Four additional half hours each week in the language laboratory.
Prerequisite(s): JPN 101.

JPN 103 4 hrs.
Intermediate Japanese I

Completion of basic grammar. Practice in conversation. Reading and writing in the two Japanese syllabaries and in selected Chinese characters. Four additional half hours each week in the language laboratory.
Prerequisite(s): JPN 102 or the equivalent.

JPN 104 4 hrs.
Intermediate Japanese II

Reading and writing of elementary prose using the two Japanese syllabaries. Reading and writing in selected Chinese characters. Four additional half hours each week in the language laboratory.
Prerequisite(s): JPN 103 or the equivalent.

JPN 196 1–4 hrs.
Independent Study

Individual study under faculty direction for qualified students with special interests and needs. May be repeated to a maximum of 8 hrs. Students may register in more than one section per term.
Prerequisite(s): Consent of the instructor.

JPN 200 3 hrs.
Advanced Spoken Japanese

Emphasis on advanced oral and aural proficiency. Expression of cultural and personal topics using formal and informal language.
Prerequisite(s): JPN 104; or consent of the instructor.

JPN 215 3 hrs.
Japanese Language and Culture

Survey of the development of cultural traits and values throughout Japanese history, and the basic characteristics of Japanese grammar. Focus on the way in which grammar and vocabulary use reflect those traits and values. **Same as** LING 215. *World Cultures course.*

Jewish Studies

JST 101 3 hrs.
Introduction to Jewish Studies: Literature and Society

Introduction to major themes, issues, writers, and contexts of modern Jewish literature. Primary focus on the connections between these literary texts and contemporary Jewish existence. *Individual and Society, and U.S. Society course.*

JST 102 3 hrs.
Introduction to Jewish Studies: Religion and Culture

Overview of Jewish socioeconomic and political structures in historical context. Primary focus on contemporary social issues, such as immigration, assimilation, intermarriage, and anti-Semitism. *Individual and Society, and U.S. Society course.*

JST 103 3 hrs.
Israel Studies: Narratives of a Complex Society

Introduction to major themes, issues, writers, and contexts of the founding, establishment, and conflicts of the modern state of Israel. *Past, and World Cultures course.*

JST 115 3 hrs.
Understanding the Bible as Literature

A broad overview of various literary genres in the Bible such as origin narrative, historical narrative, poetry, wisdom literature, prophetic/apocalyptic literature, parable, and epistle. **Same as** ENGL 115 and RELS 115. *Creative Arts, Past, and World Cultures course.*

JST 116 3 hrs.
Jewish American Literature of the 20th Century

Introduction to ways of analyzing literature within the specific thematic and cultural lens of

Judaism, focusing on major works of literature in a variety of genres throughout the twentieth century. **Same as** ENGL 116.

JST 117 3 hrs.
Understanding the Holocaust

Holocaust of European Jewry as the result of anti-Semitic ideology and the development of modern German political forces; implementation of the Final Solution. **Same as** HIST 117. *Individual and Society, and Past course.*

JST 122 3 hrs.
Minority Perspectives in the Germanic Context

Investigation of the challenges and/or opportunities of multicultural societies by examining in a sociohistorical context texts created by members of Europe's ethnic, religious, and national minorities. **Same as** GER 122. No credit toward a major or minor program offered by the Department of Germanic Studies. Lectures, discussion, and readings in English. *Creative Arts, and World Cultures course.*

JST 123 3 hrs.
Introduction to Yiddish Culture and Literature

Yiddish culture in Europe and the U.S. in sociohistorical context. Focus on the role of Yiddish in conceptions of secular, cultural, religious, national Jewish identities. **Same as** GER 123. No graduation credit toward a major or minor program offered by the Department of Germanic Studies. Lectures, discussion, and readings in English. *Creative Arts, and World Cultures course.*

JST 124 3 hrs.
Hebrew Bible

A study of the Five Books of Moses (a.k.a. Torah or Pentateuch) within the contexts of the ancient Near East and biblical literature. **Same as** CL 124 and RELS 124. Taught in English. *Past course.*

JST 125 3 hrs.
Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature and Film

Literature and films on European Jewish responses to anti-Semitism and persecution in a historical context to reveal the condition of post-Enlightenment German-speaking Jewish and Yiddish-speaking societies. **Same as** GER 125. No credit toward a major or minor program offered by the Department of Germanic Studies. Taught in English. *Past, and World Cultures course.*

JST 203 3 hrs.
Israel Film: Aspects of History, Life, and Culture

Exploration of major themes related to life in Israel via its national cinema. Historical, social, and cultural aspects of Israeli society are examined through film. *World Cultures course.*

JST 225 3 hrs.
Topics in Muslim-Jewish Relations

Muslim-Jewish interactions from the rise of Islam until contemporary times, the relationship between Biblical and Qur'anic materials, the Jewish and Islamic interpretive tradition and the legal systems of the two religious traditions. **Same as** CL 225 and RELS 225.

JST 235 3 hrs.
Introduction to Jewish Thought I

Introduces students to the fundamental Jewish texts, theology, and thought of the Rabbinic period (100CE–900 CE). Topics include: ethics, authority, sexuality, exegesis, and law. **Same as** CL 235 and RELS 235.

Prerequisite(s): Sophomore standing or above.

JST 240 3 hrs.
Philosophy and Revelation: Jewish and Christian Perspectives

Introduction to philosophical ways of addressing the claim that a book (the Bible, the Qur'an) comes from God. Texts by Immanuel Kant, Moses Mendelssohn, and Søren Kierkegaard, among others. Previously listed as JST 141. **Same as** RELS 240 and PHIL 240. **Prerequisite(s):** Two courses in philosophy or consent of the instructor. *Individual and Society, and World Cultures course.*

JST 242 3 hrs.
The History of Jewish Biblical Interpretation

Jewish interpretation of the Hebrew bible. A survey of the span of Jewish history and the wide range of cultural contexts that have impacted the understanding of the Torah. **Same as** CL 242 and RELS 242. *Past course.*

JST 243 3 hrs.
Politics and Government of the Middle East

Contemporary Middle East political institutions, culture, processes, and conflicts. Emphasis on interaction of traditional and modern forces, such as Islam, nationalism, political elites, ideologies, states. **Same as** POLS 243. **Prerequisite(s):** POLS 130 or POLS 190; or consent of the instructor. *World Cultures course.*

JST 254 3 hrs.
Prophets in Judaism and Islam

A cross-cultural survey of prophets. Texts include the Hebrew Bible, the Qur'an and Islamic and Jewish exegetical material. **Same as** CL 254 and RELS 254. *Past course.*

JST 294 3 hrs.
Topics in Jewish Studies

How Jews became a modern ethnic group, how their experiences compare with other ethnic groups, and how their experiences in modern times vary from nation to nation. May be repeated to a maximum of 6 hrs.

JST 311 3 hrs.
Gender and Sexuality in Early Christianity and Judaism
Examination of the root of contemporary perspectives on gender and sexuality in the early traditions of Judaism and Christianity including the Bible, the Epic of Gilgamesh, the Church Fathers, the Talmud, and legends of the saints. **Same as** GWS 311 and RELS 311.

JST 394 3 hrs.
Topics in Jewish Studies
Selected topics in Jewish culture and history. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

JST 478 3 OR 4 hrs.
The Bible as Literature
Literary analysis of the English Bible (including the Apocrypha) in its historical and religious contexts; study of the King James Version and successive revisions of it. **Same as** ENGL 478 and RELS 478. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or consent of the instructor.

JST 494 3 OR 4 hrs.
Topics in Jewish Studies
Selected topics in Jewish studies. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 6 hours if topics vary. **Prerequisite(s):** JST 101 or JST 102 or consent of the instructor.

Kinesiology

KN 100 2 hrs.
Kinesiology and Nutrition: First-year Seminar
Core course emphasizing the tools necessary for academic success in the transition from high school or a community college to the university level. Careers, professional organizations, resources, and issues that impact the field are also presented. Satisfactory/Unsatisfactory grading only.

KN 101 2–4 hrs.
Practicum in Kinesiology
This course will provide students with the opportunity to visit multiple job sites related to their career objectives and interests. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 4 hrs. Fieldwork required. Students must provide their own transportation to and from practicum sites. **Prerequisite(s):** KN 100 or consent of the instructor.

KN 130 3 hrs.
Stress Management
Introduction to stress and its effects on health, with experiential application of coping strategies and relaxation techniques. Addresses conventional and innovative approaches, with a special emphasis on the role of exercise.

KN 136 1 hr.
Weight Training I
Introduction to weight training. Muscle physiology; training principles, fundamentals, and practice; types and systems of strength training.

KN 137 1 hr.
Aerobic Conditioning I
Evaluation of each student's level of cardiovascular fitness, followed by participation in an individualized exercise program. Variable training modes. Discussion on fitness-related topics.

KN 194 1–3 hrs.
Special Topics in Kinesiology
Participation and study in selected activities in kinesiology. May be repeated if topics vary. Students may register in more than one section per term.

KN 200 3 hrs.
Statistical Methods in Kinesiology and Nutrition
An introduction to statistics and the scientific method, including the application of selected statistical treatments to gain minimal competence to review and interpret results from research published in the area of kinesiology and nutrition. **Prerequisite(s):** MATH 121.

KN 240 3 hrs.
Instructional Techniques in Fitness
Development of instructional techniques for a variety of activities related to health promotion. Course includes planning and teaching techniques for developing programs in fitness using a variety of exercise modalities. **Prerequisite(s):** KN 251; or consent of the instructor.

KN 243 3 hrs.
Basic Fitness Assessment
This introductory-level course deals with screening and assessing fitness components necessary to assess posture, body composition, strength, flexibility, and cardio-respiratory endurance. Extensive use of instrumentation. **Prerequisite(s):** Sophomore standing or above.

KN 251 5 hrs.
Human Physiological Anatomy I
The structure and function of mammalian cells and tissues and human skeletal, muscular, and nervous systems are discussed. Integrating the functions of the various systems is emphasized. **Prerequisite(s):** BIOS 100 or consent of the instructor.

KN 252 5 hrs.
Human Physiological Anatomy II
The structure and function of the human endocrine, circulatory, respiratory, digestive, sensory, and reproductive systems are discussed. Integrating the functions of the various systems is emphasized. **Prerequisite(s):** KN 251 or consent of the instructor.

KN 253 4 hrs.
Human Anatomy and Physiology I
The structure and function of mammalian cells and tissues and human skeletal, muscular and nervous systems are discussed. Integrating the functions of the various systems is emphasized. Credit is not given for KN 253 if the student has credit for KN 251. Extensive computer use required. **Prerequisite(s):** BIOS 100 or consent of the instructor.

KN 254 4 hrs.
Human Anatomy and Physiology II
The structure and function of the human endocrine, circulatory, respiratory, digestive, sensory, and reproductive systems. Emphasis on integrating the functions of the various systems. Credit is not given for KN 254 if the student has credit for KN 252. Extensive computer use required. **Prerequisite(s):** KN 253; or KN 251.

KN 261 3 hrs.
Applied Musculoskeletal Anatomy
Designed to provide a foundational knowledge base regarding the structure of the human musculoskeletal system as it relates to movement and function. **Prerequisite(s):** KN 251.

KN 294 1–3 hrs.
Special Topics in Kinesiology
Selected topics in kinesiology. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

KN 300 3 hrs.
Literature Review in Kinesiology
Review of current literature topics in kinesiology. Critical evaluation of methodology, results, discussion, and the significance to the scientific community. **Prerequisite(s):** KN 200 or PSCH 242; and junior standing or above; or consent of the instructor.

KN 330 3 hrs.
Women's Health-Related Fitness
The integration of social and physiological sciences to explore the relationship between women's health status and physical activity/exercise participation. **Prerequisite(s):** KN 352 and junior standing or above; or consent of the instructor.

KN 331 3 hrs.
Sport and Exercise Injury Management
Fundamental management of exercise and sport related injuries and conditions. **Prerequisite(s):** KN 252 and KN 261; and junior standing or above.

KN 335 3 hrs.
Exercise Psychology
Presents the psychological basis for exercise motivation, behavior and outcomes. Focus on application of theoretical models of

exercise adherence and psychological strategies to improve participation in regular exercise. **Prerequisite(s):** PSCH 100.

KN 340 2 hrs.
Aquatic Fitness Leadership
Methods and techniques of water-based activities for healthy or special needs populations in the water. Students will work with equipment used in the water to enhance fitness levels: cardiovascular, muscular strength and endurance. **Prerequisite(s):** KN 240.

KN 343 3 hrs.
Advanced Fitness Assessment
This laboratory-based course is designed to provide a variety of experiences in conducting advanced assessment techniques in health and fitness. **Prerequisite(s):** KN 243 and KN 345 and KN 352 and junior standing or above.

KN 345 3 hrs.
Exercise Programming
Introduction to the theory of exercise program design for various populations as well as for individual needs. Application of principles to all domains of exercise; cardiovascular, muscular strength and endurance, and flexibility. **Prerequisite(s):** KN 240 and KN 243 and KN 352 and junior standing or above; or approval of the department.

KN 348 3 hrs.
Modifications in Exercise Programming
This course examines the criteria for exercise and fitness participation and the modifications necessary to benefit people with limiting physical conditions. **Prerequisite(s):** KN 345 and junior standing or above.

KN 350 1–3 hrs.
Cadaver Dissection I
Cadaver dissection using the regional approach. Dissection of the musculoskeletal system, spinal cord and peripheral nervous system. **Prerequisite(s):** Grade of B or better in KN 252 or consent of the instructor.

KN 351 1–3 hrs.
Cadaver Dissection II
Cadaver dissection using the regional approach method. Dissection of the brain, cardiovascular, respiratory, digestive, urinary and reproductive systems. **Prerequisite(s):** Grade of B or better in KN 252 or consent of instructor.

KN 352 4 hrs.
Physiology of Exercise
The physiological responses associated with acute and chronic physical exercise; muscular, circulatory, respiratory, and nervous systems. **Prerequisite(s):** KN 252.

KN 361 3 hrs.
Biomechanics: Introduction to the Human Machine
 Introduces the nonengineering/physics student to the science of mechanics with particular emphasis on the application of mechanics to the analysis of normal and pathological human and animal movement.
Prerequisite(s): MATH 121 and KN 261, or consent of the instructor.

KN 372 3 hrs.
Motor Control and Learning
 Introduction to basic principles regarding the acquisition and control of human movements.
Prerequisite(s): PSCH 100 and KN 252.

KN 393 6–8 hrs.
Undergraduate Internship in Kinesiology
 This course will provide students with a working experience at a professional job site where they can apply the knowledge, skills, and abilities they have learned in the program. Fieldwork required. Students must provide their own transportation to and from internship sites. **Prerequisite(s):** Open only to seniors, approval of the department, and completion of all required courses in the Exercise and Fitness Concentration.

KN 394 3 hrs.
Special Topics in Kinesiology
 Selected topics in kinesiology. Flexible course structure designed to accommodate relevant topics beyond the scope of the current course offerings. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** KN 100; and sophomore standing or above; and consent of the instructor.

KN 396 1–3 hrs.
Independent Study in Kinesiology
 Selected topics in kinesiology for individual study. May be repeated to a maximum of 6 hrs.
Prerequisite(s): Junior standing or above; and consent of the instructor. Approval of student project by the KN 396 instructor and the supervising instructor.

KN 398 3 hrs.
Senior Research Seminar
 An in-depth research analysis for the development of a research proposal in the student's area of interest. Review current literature, investigate various research methodologies, review the relevant research policies, and develop a proposed project. Fieldwork may be required. Students successfully completing KN 398 and maintaining a cumulative GPA of 3.25 are eligible to take KN 399 and complete their senior project.
Prerequisite(s): Senior standing or above and a grade point average of 3.25 or higher and approval of the department.

KN 399 3 hrs.
Senior Research Project
 The implementation of the proposal developed in KN 398. Data collection, analysis, and interpretation will provide the basis for the written project. The project will be presented in an open forum to faculty and other students. **Prerequisite(s):** KN 398, senior standing, and a cumulative grade point average of 3.25 or above.

KN 400 3 hrs.
Business Principles for the Fitness Professional
 Provides a survey of basic requisite business principles and the application of these principles for students pursuing careers in corporate and community fitness.
Prerequisite(s): KN 100; and junior standing or above.

KN 410 3 hrs.
Aging and the Neuromusculoskeletal System
 Introduction to aging with a focus on its impact on the physical structure and function of the neural, muscular, and skeletal systems; the mechanics through which the trajectory of aging can be potentially modified.
Prerequisite(s): KN 252; and junior standing or above.

KN 435 3 hrs.
Psychology and Physical Activity
 Analysis and application of psychological concepts related to process and outcomes of sport and exercise programs.

KN 438 3 hrs.
Exercise Adherence
 Exercise behavior as it relates to habitual physical activity. Encompasses health outcomes, exercise adherence factors, intervention, strategies, and exercise settings.

KN 441 3 hrs.
Muscle Physiology
 Examination of skeletal muscle function during physical activity and adaptations of skeletal muscle that occur with exercise training, inactivity, and aging.
Prerequisite(s): KN 352 and junior standing or above; or consent of the instructor.

KN 442 3 hrs.
Principles of ECG Interpretation
 Introduction to the basic principles and interpretation of the electrocardiogram (ECG) as it relates to fitness programs involving the apparently healthy as well as cardiac rehabilitation patients.
Prerequisite(s): Grade of C or better in KN 352; and junior standing or above; or consent of the instructor.

KN 452 3 hrs.
Advanced Exercise Physiology
 Review of research in exercise physiology on topics currently addressed in the research literature. The first half of the semester will address factors affecting performance. The second half will

address health and disease factors.
Prerequisite(s): KN 352; and junior standing or above and one college-level course in chemistry.

KN 460 3 hrs.
Neuromechanical Basis of Human Movement
 Biomechanics of single and multi-joint systems, and its role in neural control of movement. Mechanisms of acute adaptations, including warm-up, fatigue and potentiation, and chronic adaptations arising from reduced use or training. **Prerequisite(s):** KN 252 and junior standing or above; or consent of the instructor.

KN 465 3 hrs.
Biomechanics of the Neuromusculoskeletal Systems
 Introduces the nonengineering/physics student to the biomechanics of the neural, muscular, and skeletal systems. The course focuses on normal structure-function of tissues and joints, injury and prevention.
Prerequisite(s): KN 361 or one year of college physics; or consent of the instructor.

KN 472 3 hrs.
Movement Neuroscience
 Overview of the human nervous system. Emphasis is placed on the basic functional anatomical and physiological concepts relevant to the organization and execution of movement.
Prerequisite(s): KN 251 and KN 252 and KN 352 and KN 372; and junior standing or above; or consent of the instructor.

KN 475 3 hrs.
Movement Disorders
 Examines basic and applied understanding of the neural changes in motor function in disease and disorders of movement. This will include peripheral and central motor deficits.
Prerequisite(s): KN 352 and KN 372; and junior standing or above.

KN 481 1–3 hrs.
Workshop in Kinesiology
 Intensified study of selected activities, topics, processes, or areas in kinesiology. Topic will be announced. May be repeated if topics vary. Students may register in more than one section per term.

KN 489 1–3 hrs.
Seminars in Kinesiology
 Weekly seminars devoted to research in kinesiology and related fields, followed by a one-hour discussion. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Junior standing or above.

KN 496 1–3 hrs.
Special Projects in Kinesiology
 Independent research on special projects. **Prerequisite(s):** Approval by graduate faculty member and graduate director.

Latin

LAT 101 4 hrs.
Elementary Latin I
 Fundamentals of the Latin language. Grammar and reading. For students who have no credit in Latin. One additional hour of computer-assisted instruction each week.

LAT 102 4 hrs.
Elementary Latin II
 Continues LAT 101. Grammar and reading. From reduced use or training. **Prerequisite(s):** KN 252 and junior standing or above; or consent of the instructor.

LAT 103 4 hrs.
Intermediate Latin I
 Introduction to Roman historians and oratory. Selections from Cicero, Sallust, Livy, and other Latin prose writers. Review of forms and grammar.
Prerequisite(s): LAT 102 or the equivalent.

LAT 104 4 hrs.
Intermediate Latin II
 Completes study of Latin at intermediate level. Latin poetry as well as prose and grammar.
Prerequisite(s): LAT 103 or the equivalent.

LAT 299 3 hrs.
Independent Reading
 Individual study under faculty direction. For students qualified by preparation and interest. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** LAT 104 or the equivalent.

LAT 499 3 OR 4 hrs.
Independent Reading
 Individual study under faculty direction. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 4 hours in Latin at the 200-level or the equivalent.

Latin American and Latino Studies

LALS 101 3 hrs.
Introduction to Latin American Studies
 Introduction to the major concepts, issues, and debates in the field of Latin American studies. Overview of history, cultures, and issues of race, ethnicity, gender, and class in Latin America. *World Cultures course.*

LALS 102 3 hrs.
Introduction to Latino Studies
 Introduction to the major concepts, issues, and debates in the field of U.S. Latina/o Studies. Overview of the history, cultures, and issues of race, ethnicity, gender, and class among Latinos in the United States. *U.S. Society, and World Cultures course.*

LALS 103 3 hrs.
Introduction to Latino Urban Studies
 Demographic, economic, political, cultural, and social dimensions of Latino communities in the United States. Includes Chicanos/Mexicanos Puerto Ricans, Cubans, and Central and South Americans. *U.S. Society course.*

LALS 104 3 hrs.
Introduction to Puerto Rican Studies
 Analysis of contemporary cultural, political, social, and economic issues of Puerto Rico: the political status of Puerto Rico, problems of cultural identity, migration, and economic dependence. *World Cultures course.*

LALS 105 3 hrs.
Introduction to Mexican Studies
 Introduction to major issues in the formation of modern Mexico (conquest, Revolution of 1910) and to major literary works which depict and interpret the Mexican and Mexico. *World Cultures course.*

LALS 108 3 hrs.
Indigenous Culture Change in Latin America
 Overview of Latin American indigenous societies from the pre-Columbian era to the present, using archaeological, historical, and anthropological findings to analyze the changes and adaptations of native cultures from Latin America. *World Cultures course.*

LALS 109 3 hrs.
Introduction to Latin American and Latino Cultural Studies
 Examination of the cultural and artistic productions of U.S. Latinos and/or Latin Americans through historical processes of mainstreaming, transculturation, and hybridity. **Prerequisite(s):** Open only to freshmen and sophomores or consent of the instructor. *U.S. Society, and World Cultures course.*

LALS 127 3 hrs.
Latin American Music
 Survey class that introduces students to the rich repertoire of music in Latin America. It explores the history of genres, their development, instruments, and representative artists in their geographical, social, and cultural contexts. **Same as** MUS 127. *Creative Arts, and World Cultures course.*

LALS 130 3 hrs.
Introduction to Comparative Politics
 Comparative study of political institutions, political culture, and political processes in selected major countries of the world. **Same as** POLS 130. *Individual and Society, and World Cultures course.*

LALS 161 3 hrs.
Introduction to Latin American History
 Introduction to major themes in Latin American history from pre-Colombian society and the European conquest to the present. **Same as** HIST 161. *Past, and World Cultures course.*

LALS 192 3 hrs.
From the Convent to the Streets: Latin American Women Writers in Translation
 Introduction to literature by Latin American women from the seventeenth century to the present. Focus on the role literature has played in the negotiation of gender identities in the private and the public spheres. **Same as** GWS 192 and SPAN 192. No credit toward any major or minor program in Spanish. Taught in English. *Individual and Society, and World Cultures course.*

LALS 200 1 hour.
Expository Writing on Latin American and Latino Topics
 Perfecting writing and expository skills in English. Must be taken concurrently with the first or second 200-level Latin American and Latino Studies course taken after declaration of the major. For Latin American and Latino Studies majors only.

LALS 217 3 hrs.
Human Geography of Latin America including the Caribbean Region
 Culture, settlement, political and economic development problems in Latin America, with special attention to Puerto Rico, the Caribbean Region, and Mexico. **Same as** GEOG 203. *Individual and Society, and World Cultures course.*

LALS 225 3 hrs.
Racial and Ethnic Groups
 Sociological and social-psychological analysis of racial, religious, and other ethnic groups; consideration of historical and current social problems arising from their relationships in society. **Same as** AAST 225 and SOC 225. **Prerequisite(s):** SOC 100; or consent of the instructor. *Individual and Society, and U.S. Society course.*

LALS 227 3 hrs.
Spain: 1469 to 1808
 The political, socioeconomic, and cultural development of Spain from the reign of Ferdinand and Isabella to the War of Independence. **Same as** HIST 227. *Individual and Society, and Past course.*

LALS 228 3 hrs.
Spain since 1808
 Loss of the colonies, liquidation of the Ancient Regime, national integration, sociopolitical polarization, the Civil War, and the Franco regime. **Same as** HIST 228. *Individual and Society, and Past course.*

LALS 229 3 hrs.
Sociology of Latinos
 Examines social, political, and economic issues affecting Latino groups. While focusing on the process of racialization, the course also examines immigration, language rights, gender and sexuality, labor market, media, and youth. **Same as** SOC 229. **Prerequisite(s):** SOC 100 or LALS 102 or SOC 105 or LALS 103; or consent of the instructor. *Individual and Society, and U.S. Society course.*

LALS 233 3 hrs.
Latinos in Chicago
 Development and dynamics of Chicago's Mexican, Puerto Rican, Cuban, Central and South American communities: settlement, demographics, economics, culture, social institutions, and political participation. **Prerequisite(s):** LALS 102 or consent of the instructor.

LALS 239 3 hrs.
Pre-Columbian Art of South America
 The art and architecture of the Andean, southern Central American, and Caribbean cultures from 3000 BC to the sixteenth century, including Chavin, Moche, Inca, Taino, and gold-working cultures of northern South America and lower Central America. **Same as** AH 273. **Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor. *World Cultures course.*

LALS 240 3 hrs.
Pre-Columbian Art of Mesoamerica
 The art and architecture of pre-hispanic peoples of Mexico and northern Central America, including Olmec, Teotihuacan, Maya, Zapotec, and Aztec cultures. **Same as** AH 274. **Prerequisite(s):** Three hours of art history at the 100-level or consent of the instructor. *World Cultures course.*

LALS 242 3 hrs.
Government and Politics of Latin America
 An examination of government and politics in selected Latin American countries. Comparative and historical analysis of dictatorship, democracies, political institutions, and parties. **Same as** POLS 242. **Prerequisite(s):** Any 100-level course in Latin American and Latino studies or political science.

LALS 251 3 hrs.
History of Race Relations in America
 An examination of American racial thought and racial discrimination to determine how the content and function of both have changed over time. **Same as** AAST 200 and HIST 251.

LALS 255 3 hrs.
South American Indians
 Social and cultural practices of the native peoples of the Amazonian tropical forest and the Andes. **Same as** ANTH 275. *Individual and Society, and World Cultures course.*

LALS 256 3 hrs.
European-Indigenous Interaction in Latin America
 Responses of indigenous societies in Latin America to colonization by people from the Old World. The historical and social circumstances of contact and culture change will be covered. **Same as** ANTH 256. *World Cultures course.*

LALS 257 3 hrs.
Archaeology of North America
 Introduction to the prehistoric cultures of North America from earliest times until the arrival of Europeans. **Same as** ANTH 226. **Prerequisite(s):** ANTH 102 or consent of the instructor.

LALS 258 3 hrs.
Ancient Civilizations of Mexico and Central America
 Analysis and interpretation of the archaeological evidence on the process of development of native civilization in the Mesoamerican area from the beginnings of agricultural settlement to the eve of the Spanish conquest. **Same as** ANTH 227 and GEOG 207. **Prerequisite(s):** ANTH 102; or sophomore standing or above; or consent of the instructor.

LALS 259 3 hrs.
Ancient Civilizations of South America
 Analysis of the developmental process and social institutions of indigenous civilizations of South America. Emphasis on origins of sedentary life, evolution of cities, and dynamics of the native Andean states. **Same as** ANTH 228. **Prerequisite(s):** ANTH 102; or sophomore standing or above; or consent of the instructor.

LALS 261 3 hrs.
Latin America to 1850
 A survey of the pre-Columbian and early national periods. **Same as HIST 261.** *Past, and World Cultures course.*

LALS 262 3 hrs.
Latin America since 1850
 Latin American socioeconomic, political, and cultural development since 1850 with emphasis on major countries and regions. **Same as HIST 262.** *Past, and World Cultures course.*

LALS 263 3 hrs.
Latin American Colonial Art
 A survey of Latin American art and architecture from European contact to independence. **Same as AH 263.** **Prerequisite(s):** Three hours of art history at the 100-level, or consent of the instructor. *Creative Arts, and World Cultures course.*

LALS 265 3 hrs.
Mexico: 1400 to 1850
 Social, economic, political, and cultural development of Mexican society from pre-Hispanic roots through Spanish conquest to independence and its aftermath. **Same as HIST 265.** *Past, and World Cultures course.*

LALS 266 3 hrs.
Mexico since 1850
 Revolution and evolution in the making of modern Mexican society. **Same as HIST 266.** *Past, and World Cultures course.*

LALS 270 3 hrs.
Ethnography of Mesoamerica
 Survey of the contemporary indigenous cultures of Mesoamerica, studied against their preconquest history and in their development since the Spanish conquest. **Same as ANTH 277.** *Individual and Society, and World Cultures course.*

LALS 272 3 hrs.
Brazil: A Multiethnic Society
 The diverse political, economic, artistic, and folkloric themes of Brazilian life are traced in such national festivals as Carnaval and Sao Joao, and folk religions such as Candomble. **Same as ANTH 278.** *Individual and Society, and World Cultures course.*

LALS 275 3 hrs.
Gender in Latin America
 Latin American women in historical perspective from pre-Columbian and Iberian societies to the present. **Same as GWS 275 and POLS 275.** *World Cultures course.*

LALS 276 3 hrs.
Latinas in the United States
 Socioeconomic conditions and cultural experiences of Latinas in the U.S. Historical and contemporary views of labor, health, education, family, identity formation, and leadership. **Same as GWS 276 and SOC 226.**

LALS 277 3 hrs.
Issues of Race, Class, and Gender among Latinos
 Institutional, cultural, and psychological components of race, class, and gender relations.

Institutional inequality, questions of assimilation and identity, attitudes, and effects of inequality on community. **Prerequisite(s):** LALS 102.

LALS 278 3 hrs.
Latin American/Latino Film Studies
 Latin American and U.S. Latino film as expressing and impacting socioeconomic, political, ideological, and literary systems, modes of elite and popular culture, everyday life. **Same as SPAN 278.** **Prerequisite(s):** LALS 101 or LALS 102 or LALS 109.

LALS 283 3 hrs.
Latinos and Politics
 Latino politics and politicians in the context of the American political system. The political system, Latino participation, experience, and research on political processes. **Same as POLS 209.** *U.S. Society course.*

LALS 286 3 hrs.
Issues in Latino Identity
 Examines one or more topics of central importance to U.S. Latino populations. Topics may be related to such issues as youth, migration, family, religion, or cultural production. **Prerequisite(s):** LALS 102.

LALS 288 3 hrs.
History of Modern Puerto Rico
 Survey of political and socioeconomic history from 1868 to the present. **Same as HIST 288.**

LALS 290 3 hrs.
Mexican American History
 The political, social, economic, and cultural development of the Mexican people in the U.S. from colonial times until the present. **Same as HIST 290.**

LALS 295 3 hrs.
Latino Literary Studies
 Major trends, genres, works, themes, and writers related to Latino history and culture, mainstream and minority U.S., Latin American and third world literatures. **Same as ENGL 295 and SPAN 295.** *U.S. Society course.*

LALS 299 3-6 hrs.
Independent Study
 Individual reading or research project and paper in Latin American or U.S. Latino Studies, with instructor's consent and supervision. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** A 2.50 grade point average. Open to undergraduate students with consent of the appropriate instructor and the Latin American and Latino studies director.

LALS 301 3 hrs.
Research Methods in Latin America and Latino Studies
 An examination of various research methods used in Latin American and Latino studies. Qualitative research methods used in the humanities and social sciences with emphasis on how to formulate ideas, develop them,

and carry out a research project. **Prerequisite(s):** Two 200-level LALS courses; LALS major or minor or consent of the instructor; junior standing or above or consent of the instructor.

LALS 302 3 hrs.
Research Workshop in Latin American and Latino Studies
 Workshop where students will engage in individual research projects related to Latin American and/or Latino studies. **Prerequisite(s):** LALS 301, junior standing or above, and consent of the instructor.

LALS 348 3 hrs.
Seminar: Political Problems of Developing Societies
 Selected aspects of the politics and countries of Asia, Africa, and Latin America. **Same as POLS 348.** **Prerequisite(s):** POLS 200 and POLS 130; or consent of the instructor.

LALS 350 3 hrs.
Latinos and Latin Americans in U.S. Public Discourse
 The U.S. public images of Latinos and Latin Americans. **Prerequisite(s):** Two 200-level LALS courses; junior standing or above or consent of the instructor.

LALS 380 3 hrs.
Social Movements in Latin America
 The different ways in which different groups have used nontraditional means to change the social and political circumstances that have conditioned their lives. **Prerequisite(s):** Two 200-level courses; junior standing or above or consent of the instructor.

LALS 382 3 hrs.
Race and Citizenship in the Americas
 The relationship between citizenship and racial ideologies in the Americas. Comparison of the diverse racial and social experiences of U.S. Latinos with other populations in the Americas. **Prerequisite(s):** Two 200-level LALS courses; junior standing or above or consent of the instructor.

LALS 385 3 hrs.
Latino Social Movements in the United States
 Social movements and public action by Latinos in the United States. Includes farmworkers organizing, unionization efforts, nationalist movements, feminism, struggles, and community debates. **Prerequisite(s):** LALS 102.

LALS 391 3 hrs.
Seminar in Latin American Studies
 Diverse aspects of modern Latin American society, politics, culture, and economics from the wars of independence to contemporary times. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Two 200-level LALS courses; junior standing or above or consent of the instructor.

LALS 395 3 hrs.
Seminar in Latino Studies
 Diverse aspects of the U.S. Latino experience at more theoretical and advanced levels. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Two 200-level LALS courses; junior standing or above or consent of the instructor.

LALS 403 3 OR 4 hrs.
Interdisciplinary Research Methods in Latin American and Latino Studies
 Examination of research methods in social sciences and current trends in Latin American and Latino studies. Emphasis on critical analysis of research methods, use of analytical approaches for particular kinds of investigation, and hands on application to case studies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** LALS 301 and LALS 302; or graduate standing. **Recommended background:** Credit or concurrent registration in LALS 501.

LALS 409 3 OR 4 hrs.
Ancient Maya Writing, Language, and Culture
 Recent trends in Maya epigraphy, information gained from Maya hieroglyphs, linguistics, and historical ethnographies are applied to anthropological analyses of past lifeways. **Same as ANTH 409.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

LALS 423 3 OR 4 hrs.
Andean Prehistory
 An overview of the cultural evolution of the Andean region from the arrival of the first inhabitants to the development of the Inca empire. **Same as ANTH 423.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 228 or ANTH 269 or consent of the instructor.

LALS 427 3 OR 4 hrs.
Studies in Language Policy and Cultural Identity
 Examines the development, articulation, and effects of language policies on identity formation and culture. Focuses on the United States and the Spanish language, although other countries and languages are included. **Same as SPAN 427.** 3 undergraduate hrs. 4 graduate hrs. Taught in English. **Prerequisite(s):** Junior standing or above.

LALS 461 3 OR 4 hrs.
Topics in Latin American History
 Specific topics are announced each term. **Same as HIST 461.** 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history, Latin American and Latino studies, or consent of the instructor.

LALS 475 3 OR 4 hrs. **Indians of the Andes and the Amazon**

Intensive research in theoretical and ethnographic problems in South American Indian social structures and cultures. Special attention will be given Levi-Strauss' ideas on the formulation of cultural theory in South America. **Same as** ANTH 475. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ANTH 213 or consent of the instructor.

LALS 491 3 OR 4 hrs. **Interdisciplinary Seminar in Latin American Studies.**

Specific topics as announced each semester. In-depth study of selected topics such as: process of state formation, education, populism, the family, democratization, industrialization, and ideological currents. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Any two 200-level Latin American and Latino studies courses or consent of the instructor.

LALS 495 3 OR 4 hrs. **Interdisciplinary Seminar in Latino Studies**

In-depth study of Latino communities and current issues from an interdisciplinary perspective, with emphasis on the learning and use of investigative methodologies. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Any two 200-level Latin American and Latino studies courses or consent of the instructor.

LALS 497 3 OR 4 hrs. **Community Research Internship**

Work in community-based organizations and cultural institutions to develop experiential knowledge about social, political, and cultural issues facing Latinos and Latin Americans. Placements introduce issues of ethnicity, identity, and transnationalism. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor. Concurrent registration in LALS 498. **Recommended background:** LALS 403.

LALS 498 3 OR 4 hrs. **Community Research**

Community-based internship and development of a research proposal. Students are introduced to policy papers, research memos, and research grant proposals, and are expected to develop their own research proposals. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor. Concurrent registration in LALS 497. **Recommended background:** LALS 403.

LALS 499 1-4 hrs.
Advanced Independent Study
Individual advanced reading or research project in Latin American or U.S. Latino studies, with instructor's consent and supervision. May be repeated to a

maximum of 8 hrs. Students may register in more than one section per term. **Prerequisite(s):** Open, with consent of the instructor, to graduate students and Latin American and Latino Studies majors with at least a 3.00 grade point average. Students in other programs or with lower than a 3.00 grade point average are admitted at the instructor's discretion only.

Liberal Arts and Sciences

LAS 100 1 hour. **Freshman Seminar: Introduction to University Study**

Introduction to strategies of intellectual inquiry through the posing and solving of problems characteristic of university disciplines. Familiarization with academic life and environment at UIC. Topics vary. Meets during the first 10 weeks of the term. **Prerequisite(s):** Open only to freshmen.

LAS 110 1 hour. **Success in the City**

Strategies for academic success with focus on campus and community resources. Understanding the relationship between UIC and the diversity of Chicago is highlighted. Satisfactory/Unsatisfactory grading only. Field trips outside of class hours required; lunches may need to be purchased. Class will meet first 10 weeks of term. Open to LAS freshmen only.

LAS 289 0 hrs. **Cooperative Education: Off Campus**

Offers students the opportunity to couple academic learning with career-related experience in an off-campus placement. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Declaration of a major, a cumulative grade point average of 2.50, completion of 40 hours of course work, and approval of the major department and the LAS Cooperative Education Office.

LAS 299 0-18 hrs. **Liberal Arts and Sciences Study Abroad**

Provides credit for foreign study. Student's proposal for study abroad must have prior approval of the major department and the College of Liberal Arts and Sciences office. Final determination of credit is made on the student's completion of the work. May be repeated. A maximum of 36 hours per academic year is allowed, for a total of 48 hours, all of which must be earned within one calendar year. **Prerequisite(s):** Approval of the student's major department and the college office, and the Study Abroad Office.

LAS 320 2 hrs.
Introduction to Legal Analysis
Introduction to legal analysis and effective legal writing through the

preparation of a legal memorandum, judicial opinion, and other written assignments. Meets at Chicago-Kent College of Law. **Prerequisite(s):** Application to the College of Liberal Arts and Sciences and Chicago-Kent College of Law Accelerated Degree Program or junior standing; 3.5 grade point average; English 160 and 161 with grade of C or better; and consent of instructor.

LAS 490 0-18 hrs. **International Student Exchange Program**

The Student Exchange Program enables the reciprocal exchange of students between UIC and colleges or universities in other countries. There are a variety of programs tailored to meet the needs of both graduate and undergraduate students. May be repeated for a maximum of 36 hours per academic year or for a total of 48 hours, all of which must be earned within one calendar year. Determination of the number of credits to be granted is part of the proposal approval process. Students from other UIC colleges and schools are eligible for the program. For more information, visit the Web site at <http://www.uic.edu/depts/oia/resources-student/studentexchange.html>. **Prerequisite(s):** Junior standing or above and approval of the student's major department, the LAS College Office and the Office of International Affairs.

LAS 494 3 OR 4 hrs. **Topics in Cultural Studies**

An interdisciplinary approach to a current cultural debate. Topics will vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. Taught at the Field Museum.

LAS 495 6 hrs. **The Newberry Library Undergraduate Seminar**

Seminar with a topic related to the holdings of the Newberry Library. Classes held in Newberry Library. Topics vary. May be repeated if topics vary. Previously listed as LAS 395. Students are required to conduct research at the Newberry Library beyond designated class hrs. Pretour of the Newberry is recommended. **Prerequisite(s):** Consent of UIC's Newberry Library seminar coordinator.

Linguistics

LING 150 3 hrs. **Introduction to the Study of Language**

The nature of human language and its grammatical, social, and biological aspects are covered. *Individual and Society course.*

LING 160 3 hrs. **Language and Society**

Language and its social context: linguistic variation in the community; types of linguistic interaction; language as a reflection of its social origins. *Individual and Society, and U.S. Society course.*

LING 170 3 hrs. **Languages of the World**

A survey of the world's languages: their cultural origins, relationships, similarities, and differences. *Individual and Society, and World Cultures course.*

LING 201 3 hrs. **Classical Etymology in the Life Sciences**

The structure and formation of technical terms used in the health sciences, based on roots and elements from Greek and Latin. **Same as** CL 201. **Prerequisite(s):** Any 100-level biological sciences sequence.

LING 215 3 hrs. **Japanese Language and Culture**

Survey of the development of cultural traits and values throughout Japanese history, and the basic characteristics of Japanese grammar. Focus on the way in which grammar and vocabulary use reflect those traits and values. **Same as** JPN 215. *World Cultures course.*

LING 260 3 hrs. **Language Acquisition, Language Contact, and Bilingualism**

The social and psychological aspects of three major areas of language acquisition and use will be addressed: child language acquisition, adult second language acquisition, and bilingualism/language contact. **Prerequisite(s):** Sophomore standing or above. **Recommended background:** LING 150 or LING 160 or LING 161 or a similar course.

LING 402 3 OR 4 hrs. **Trial Interaction**

Language use, culture, and law in the trial process. Analysis of qualitative methods applied to legal processes and change. **Same as** CLJ 402. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CLJ 261 and CLJ 350; or consent of the instructor.

LING 405 3 OR 4 hrs. **Introduction to General Linguistics**

Linguistics, the scientific study of language as knowledge, structure, and use, involves phonetics, phonology, morphology, syntax, semantics, and pragmatics. Introduction to linguistics explores these disciplines. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing.

LING 415 3 OR 4 hrs. **Linguistic Structures I**

Introduction to key concepts in the field, including descriptive and prescriptive grammars, competence and performance, and human language as a system; articulatory phonetics; phonology; morphology. 3 undergraduate hrs. 4 graduate hrs.

LING 425 3 OR 4 hrs.
Linguistic Structures II
Fundamentals of semantics and syntax within the broad frameworks of generative and functional linguistics, including key concepts such as sense reference, utterance, sentence, form and function. 3 undergraduate hrs. 4 graduate hrs.

LING 459 3 OR 4 hrs.
Topics in Linguistics
Topics vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

LING 474 3 hrs.
Cognitive Psychology of Language
Provides students with a survey of methods, theory, and research in language and discourse processing. **Same as** COMM 454 and PSCH 454. **Prerequisite(s):** Graduate standing or consent of the instructor.

LING 480 3 OR 4 hrs.
Sociolinguistics
The study of language structure and use involving socially-informed pragmatics, ethnography of communication, sociolinguistic variation and dialectology, and issues of bilingualism. **Same as** ANTH 480. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** LING 405 or junior standing and consent of the instructor.

LING 483 3 OR 4 hrs.
Methodology of TESOL
Methods of teaching listening, speaking, reading, and writing to speakers of English as a second or foreign language. **Same as** CI 483. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing and consent of the instructor.

LING 487 3 OR 4 hrs.
Computer-Assisted Language Learning
An introduction to computer assisted language learning (CALL): the use of computer technology in second language reading and research. The effectiveness of CALL technology is assessed based on SLA theory and research studies. **Same as** GER 487 and SPAN 487. 3 undergraduate hrs. 4 graduate hrs. Taught in English. Extensive computer use required. **Prerequisite(s):** LING 483 or CI 483 or GER 448 or FR 448 or SPAN 448 or GER 449 or FR 449 or SPAN 449; or SPAN 502 or FR 502 or the equivalent; and senior standing or above.

LING 496 1–4 hrs.
Independent Study
Students are assigned to this course at the discretion of the department. Independent study in an area of linguistics not normally covered by regular course offerings. Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. A maximum of 6 hours is

allowed for undergraduate students, and 8 hours of credit for graduate students. **Prerequisite(s):** 9 hours of linguistics and approval of the head of the department.

Lithuanian

LITH 101 4 hrs.
Elementary Lithuanian I
Phonetics, introductory grammar, and reading. Four additional half hours each week in the language laboratory. For students who have had no formal work in Lithuanian.

LITH 102 4 hrs.
Elementary Lithuanian II
Continues LITH 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** LITH 101 or the equivalent.

LITH 103 4 hrs.
Intermediate Lithuanian I
Continues LITH 102. **Prerequisite(s):** LITH 102 or the equivalent.

LITH 104 4 hrs.
Intermediate Lithuanian II
Continues LITH 103. **Prerequisite(s):** LITH 103 or the equivalent.

LITH 115 3 hrs.
Lithuanian Culture
A thematic study of Lithuanian culture from antiquity to the present in an historical and political context. Knowledge of Lithuanian is not required. *World Cultures course.*

LITH 130 3 hrs.
Lithuanian Prose Fiction in International Context
Analysis of Lithuanian prose fiction with reference to its major influences from Europe, North and South America; the development of international style. Taught in English. *Creative Arts, and World Cultures course.*

LITH 221 3 hrs.
Lithuanian Literature I
Reading and analysis of the works of selected nineteenth- and twentieth-century authors. The evolution of Lithuanian literature up to 1940. Taught in English.

LITH 222 3 hrs.
Lithuanian Literature II
Reading and analysis of the works of selected authors from 1940 to the present. **Prerequisite(s):** LITH 221.

LITH 230 3 hrs.
Lithuanian Literature Abroad
Lithuanian writers in exile: themes, trends in development, comparison with writers in Soviet Lithuania; influences of the new environment, writing in English. Taught in English.

LITH 399 1–3 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Junior standing, consent of the instructor and the head of the department.

LITH 410 3 OR 4 hrs.
Structure of Lithuanian
Synchronic analysis of the structure of Lithuanian; emphasis on discourse analysis of oral and written texts. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** LITH 405 or 18 hours of Lithuanian or the equivalent.

LITH 425 3 OR 4 hrs.
Translation of Lithuanian Texts
Problems of translating Lithuanian texts; workshop in translating Lithuanian works into English. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** LITH 302 or consent of the instructor.

LITH 499 1–4 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hrs. Graduate students may register for more than one section per term; undergraduates may only register for one section per term. **Prerequisite(s):** Senior or graduate standing, consent of the instructor and the head of the department.

Management

MGMT 340 3 hrs.
Introduction to Organizations
Important organization and management concepts and applications. Their relevance to individual and organizational goal attainment. Emphasizes organizational structure, systems, processes, and change, national and global. **Prerequisite(s):** ENGL 161 and MATH 160.

MGMT 350 3 hrs.
Business and Its External Environment
Concerns the political, economic, social, legal, regulatory, and international environment of business and the ethics and social responsibility of business actions. **Prerequisite(s):** ENGL 161 and MATH 160.

MGMT 445 3 hrs.
Organizational Theory
Emphasis on organizational theories and models to analyze and improve functioning and performance of organizations. Structure, technology, environmental adaptation, and managerial control systems. **Prerequisite(s):** MGMT 340 and junior standing.

MGMT 447 3 OR 4 hrs.
Organizations
Characteristics of business, government, and not-for-profit organizations; approaches used to study organizations; theoretical and empirical analysis of organizational processes. **Same as** SOC 447. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 241 or MGMT 340 or SOC 244; and junior standing or above and an additional 200 or 300-level elective in sociology; or consent of the instructor.

MGMT 452 3 hrs.
Organizational Behavior
Emphasis on understanding and managing people at work. Analysis of individual, group, and organization topics, including leadership, motivation, attitudes, group dynamics, and organizational culture. **Prerequisite(s):** Junior standing and MGMT 340.

MGMT 453 3 hrs.
Human Resource Management
Examination of the activities involved in attracting, retaining, and motivating employees. Topics include planning, selection, compensation, performance appraisal, succession, and legal issues. **Prerequisite(s):** MGMT 340 and MGMT 350 and junior standing.

MGMT 454 3 hrs.
Labor-Management Relations
Labor unions and their impact on business firms and society. Labor-management relationships and collective bargaining practices. Public policy, union structure, and bargaining theory. **Prerequisite(s):** MGMT 340 and MGMT 350 and junior standing.

MGMT 460 3 hrs.
Business, Society, and the Global Economy
Managing in a free enterprise system. Market, regulatory, ethical, and cultural norms. Internationalization of business; urban problems of business; landmark and contemporary case analyses. **Prerequisite(s):** MGMT 340 and MGMT 350.

MGMT 463 3 hrs.
Negotiation and Conflict Resolution
Strategies and techniques for successful agreement negotiation and business conflict resolution. Includes applications to classic situations, such as collective bargaining, interpersonal relations, and stakeholder concerns. **Prerequisite(s):** MGMT 340.

MGMT 465 3 hrs.
Compensation and Reward Systems
Examination of compensation and reward systems designed to enhance employee motivation and performance. Topics include pay structure design, incentive systems, and benefits. **Prerequisite(s):** MGMT 453 and MGMT 454.

MGMT 466 3 hrs.
Managerial Effectiveness through Diversity
Management of diverse work forces. Discrimination, affirmative action, career development, socialization, and social change policies; historical, psychological, sociological, legal, and managerial viewpoints. **Prerequisite(s):** MGMT 340.

MGMT 467 3 hrs.
Impact of Technological Change

Examines the impact of technological change upon the business environment and the managerial process. Emphasis on alternative futures and the planning necessary to attain desired ends.

Prerequisite(s): MGMT 340 and MGMT 350.

MGMT 470 3 hrs.
Career Planning and Development

Individual and organizational perspectives in career planning. Self-direction, networking, support facilities, and corporate management systems are considered. **Prerequisite(s):** MGMT 340 or the equivalent and junior standing.

MGMT 471 3 hrs.
Organizational Design

Strategies for promoting the creativity, flexibility, and productivity of the organization and its management personnel. Readings and case studies from the public and private sectors.

Prerequisite(s): MGMT 340 and MGMT 452, or consent of the instructor.

MGMT 480 3 hrs.
Transportation Systems Management

Provides a fundamental knowledge of problems and practices encountered in the management of transportation systems. Includes impact of public policy; capital facilities; industry structure; costs; operations pricing and environmental relationships. **Prerequisite(s):** MGMT 340 and MGMT 350, or consent of the instructor.

MGMT 481 3 hrs.
Managerial Logistics

Management of activities governing flow of materials and products through stages of production and distribution. Includes design of logistical systems and use of mathematical techniques.

Prerequisite(s): IDS 355 or consent of the instructor.

MGMT 485 3 hrs.
Business Ethics

Leading theories of ethics and moral choice. Analysis of ethical problems in business. Guidelines for ethical decision making. Case studies in business ethics.

Prerequisite(s): MGMT 340 and MGMT 350.

MGMT 494 3 hrs.
Special Topics in Management

Exploration of areas not covered in existing course offerings or study of selected topics in greater depth. Subject matter will vary from semester to semester.

Prerequisite(s): Senior standing and 9 hours of 400-level management courses, or consent of the instructor.

MGMT 495 4 hrs.
Competitive Strategy

Multidisciplinary analysis of organization strategy and policy, using case method and/or business simulation.

Assignments involve extensive library research and oral and written reports.

Prerequisite(s): Senior standing in the College of Business Administration and completion of all other CBA Core courses, or consent of the instructor.

MGMT 499 1–3 hrs.
Independent Study in Management

Independent study of an approved topic in management. Student must prepare a written report under the guidance of the instructor. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the department head.

Marketing

MKTG 360 3 hrs.
Introduction to Marketing

The role of marketing in business and society. The marketing decision process in domestic and international settings. Required of all students in the College of Business Administration.

Prerequisite(s): ENGL 161 and MATH 160.

MKTG 452 3 hrs.
Principles of Retailing

The theory and practice of making retailing decisions regarding pricing, product, place, and promotion, and the development of strategy based on market competition and trends. **Prerequisite(s):** MKTG 360.

MKTG 460 3 hrs.
Marketing Analytics

Introduction to data-centered analysis for critical aspects of marketing, such as sales forecasting, profitability analysis, market segmentation, promotion budgeting, and database marketing. **Prerequisite(s):** MKTG 360 and IDS 270.

MKTG 461 3 hrs.
Consumer Market Behavior

Understanding consumer decision processes; steps in decision making, including need recognition, perception, cognition, and attitude formation; effect of environmental social, psychological, and individual difference factors on consumer decision making. **Prerequisite(s):** MKTG 360 or consent of the instructor.

MKTG 462 3 hrs.
Marketing Research

An investigation of the gathering, analyses, and interpretation of information used in solving marketing problems. Both qualitative and quantitative methods are employed in developing an analytical framework.

Prerequisite(s): MKTG 360 and IDS 270.

MKTG 463 3 hrs.
Marketing Channels and E-Commerce

Develop an integrated distribution system; relationship to firm's marketing structure (logistics); evaluation of decisions on sources, plant and warehouse

location, domestic and international outlets. Analysis by marketing channels and e-commerce role in distribution.

Prerequisite(s): MKTG 360.

Business administration students must have declared a major, or have received consent of the instructor.

MKTG 465 3 hrs.
Strategic Marketing Planning and Management

Development of marketing plans for strategic and tactical programs to achieve the firm's marketing objectives. **Prerequisite(s):** 15 hours of marketing.

MKTG 466 3 hrs.
Comparative Marketing Systems

Treats the topic of domestic marketing systems in other countries, their structures and processes, in a framework of comparative cultural, political, economic, and social systems. **Prerequisite(s):** MKTG 360 or consent of the instructor. Business administration students must have declared a major.

MKTG 469 3 hrs.
Global Marketing

The strategic and tactical marketing of goods and services to countries beyond domestic or current markets. Distinct economic, sociocultural, and political-legal-regulatory environments are considered. **Prerequisite(s):** MKTG 360 and BA 200; or consent of the instructor.

MKTG 471 3 hrs.
Services Marketing

An exploration of the special challenges of services marketing, including analyzing and developing solutions for new services, services quality, design and delivery of services, and services recovery. **Prerequisite(s):** MKTG 360.

MKTG 473 3 hrs.
The Personal Selling Effort in Marketing

Analysis of selling strategies and tactics in different situations; problems of managing sales force. Cultural differences in selling techniques as well as ethical concerns will be discussed. **Prerequisite(s):** MKTG 461 or consent of the instructor.

MKTG 474 3 hrs.
Advertising and Sales Promotion

The management, planning, creation, evaluation, and use of advertising and sales promotion. Evaluation and critique of an ad campaign. **Prerequisite(s):** MKTG 461 or consent of the instructor.

MKTG 475 3 hrs.
Product Management

Development and review of new and existing products during their life cycles; the evolution of products and services from a creative idea to their withdrawal from the market. **Prerequisite(s):** MKTG 462 or consent of the instructor.

MKTG 476 3 hrs.
Business-to-Business (B2B) Marketing

Unique concepts and strategies applied when businesses market to other organizations and institutions. Derived demand, systems selling, bid pricing, national account programs, and using distributors. **Prerequisite(s):** MKTG 360.

MKTG 494 3 hrs.
Special Topics in Marketing

Intensive study of selected problems. Reading assignments from scholarly and professional journals; emphasis on covering relatively few areas in great depth.

Prerequisite(s): Business administration students must have declared a major.

MKTG 499 3 hrs.
Independent Study in Marketing

Topic and research methodology is to be determined by consultation with the instructor. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** Major in marketing. Consent of the head of the department and the instructor must be obtained prior to registration.

Maternal-Child Nursing

NUMC 353 2 hrs.
Nursing Dimensions of Human Sexuality

Human sexuality across life cycle; exploration of physiological, psychological, and social-cultural factors influencing sexuality; and health/illness behaviors. **Prerequisite(s):** NUSC 225 or NUSC 242; or consent of the instructor.

Mathematical Computer Science

MCS 260 4 hrs.
Introduction to Computer Science

Introduction to computers, the C language, data types, statements and expressions, selection and repetition, functions and parameters, input/output, arrays, strings and string library functions, pointers, structures. **Prerequisite(s):** Credit or concurrent registration in MATH 180. *Natural World—No Lab course.*

MCS 275 4 hrs.
Programming Tools and File Management

Bit manipulation, screen and file input/output, separate compilation and linking, creating and using libraries, the ANSI C library, make utilities, interactive debuggers, introduction to C++ classes. **Prerequisite(s):** Grade of C or better in MATH 180, and grade of C or better in MCS 260 or grade of C or better in CS 102.

MCS 294 1–4 hrs.
Special Topics in Computer Science

Course content is announced prior to each term in which it is given. May be repeated.

Prerequisite(s): Approval of the department.

MCS 320 3 hrs.
Introduction to Symbolic Computation

Introduction to computer algebra systems (MAPLE), symbolic computation, and the mathematical algorithms employed in such computation, with examples and applications to topics in undergraduate mathematics.

Prerequisite(s): Grade of C or better in MATH 210; and grade of C or better in MCS 260 or grade of C or better in CS 102 or grade of C or better in CS 108.

MCS 360 4 hrs.
Introduction to Data Structures

Pointers and dynamic memory allocation in C/C++, recursion, stacks, queues, heaps, binary and multiway trees, graphs, hash tables. Sorting and searching algorithms. **Prerequisite(s):** Grade of C or better in MCS 260 and grade of C or better in MCS 275.

MCS 361 3 hrs.
Discrete Mathematics

Discrete mathematical structures used in computer science: sets, functions and relations; induction, recursive definitions and relations, methods of proof, quantifiers; counting; graphs and trees; algorithms. Previously listed as MCS 261. **Prerequisite(s):** Grade of C or better in MATH 215; and grade of C or better in MCS 260 or grade of C or better in CS 102.

MCS 394 2–4 hrs.
Special Topics in Computer Science

Course content is announced prior to each term in which it is given. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MCS 401 3 OR 4 hrs.
Computer Algorithms I

Design and analysis of computer algorithms. Divide-and-conquer, dynamic programming, greedy method, backtracking. Algorithms for sorting, searching, graph computations, pattern matching, NP-complete problems. **Same as** CS 401. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in MCS 360; or grade of C or better in CS 202.

MCS 411 3 OR 4 hrs.
Compiler Design

Language translation: lexical analysis, parsing schemes, symbol table management, syntax and semantic error detection, and code generation. Development of fully-functional compiler. **Same as** CS 473. 3 undergraduate hrs.

4 graduate hrs. **Prerequisite(s):** Grade of C or better in CS 301 or grade of C or better in MCS 441; and grade of C or better in CS 202 or grade of C or better in MCS 360; and grade of C or better in CS 266.

MCS 415 3 OR 4 hrs.
Programming Language Design

Definition, design, and implementation of programming languages. Syntactic and semantic description; variable bindings, control and data structures, parsing, code generation, optimization; exception handling; data abstraction. **Same as** CS 476. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MCS 360 or CS 340.

MCS 421 3 OR 4 hrs.
Combinatorics

The pigeonhole principle, permutations and combinations, binomial coefficients, inclusion exclusion principle, recurrence relations and generating functions, special counting sequences, Polya theory of counting. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 215; and grade of C or better in MATH 310 or grade of C or better in MATH 320; or consent of the instructor.

MCS 423 3 OR 4 hrs.
Graph Theory

Basic concepts of graph theory including Eulerian and hamiltonian cycles, trees, colorings, connectivity, shortest paths, minimum spanning trees, network flows, bipartite matching, planar graphs. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in MATH 215; and grade of C or better in MATH 310 or grade of C or better in MATH 320; or consent of the instructor.

MCS 425 3 OR 4 hrs.
Codes and Cryptography

Mathematics of communications theory, basic information theory necessary to understand both coding theory and cryptography, basic ideas and highlights for both coding theory and cryptography, including public-key cryptosystems. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 215; and grade of C or better in MATH 310 or grade of C or better in MATH 320; or consent of the instructor.

MCS 441 3 OR 4 hrs.
Theory of Computation I

Introduction to formal languages; relations between grammars and automata; elements of the theory of computable functions. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 215.

MCS 451 3 OR 4 hrs.
Object-Oriented Programming in C++

C++ as an object-oriented language, classes and member func-

tions, access control, class scope, constructors, destructors, overloading, conversions, streams, derived classes, polymorphism through virtual functions, templates, class libraries. 3 undergraduate hrs. 4 graduate hrs. Credit is not given for MCS 451 if the student has credit for CS 474. Extensive computer use required. **Prerequisite(s):** Grade of C or better in MCS 360 or the equivalent or consent of the instructor.

MCS 471 3 OR 4 hrs.
Numerical Analysis

Introduction to numerical analysis; floating point arithmetic, computational linear algebra, iterative solution to nonlinear equations, interpolation, numerical integration, numerical solution of ODEs, computer subroutine packages. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MCS 275 or grade of C or better in CS 102 or grade of C or better in CS 108; or consent of instructor.

MCS 472 3 OR 4 hrs.
Introduction to Industrial Math and Computation

Technical writing and oral presentations in preparation for industrial projects. Topics include quality control, operations research, cost-benefit analysis, differential equations, using scientific software. Extensive computer use required. **Prerequisite(s):** Grade of C or better in MCS 471 or consent of the instructor. **Recommended background:** Designed for students with a desire to explore mathematics via practical field-work.

MCS 481 3 OR 4 hrs.
Computational Geometry

Algorithmic problems on sets of points, rectangles, intervals, arcs, chords, polygons. Counting, reporting, location, intersection, pairing; static and dynamic data structures. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MCS 401 or consent of the instructor.

MCS 494 3 OR 4 hrs.
Special Topics in Computer Science

Topics in mathematical computer science, such as symbolic computation, automated reasoning, cryptography or geometric algorithms. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term.

Prerequisite(s): Approval of the department.

MCS 496 1–4 hrs.
Independent Study

Reading course supervised by a faculty member. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the instructor and the department.

Mathematics**MATH 070 3 hrs.**
Elementary Mathematics

Rational operations and arithmetic, fundamental operations of algebra, linear equations and polynomials, graphing. Satisfactory/Unsatisfactory grading only. Not open to students with credit in MATH 090, MATH 092 or a mathematics course at or above the 100-level. No graduation credit.

Prerequisite(s): Eligibility determined by performance on the department placement test.

MATH 075 2 hrs.
Beginning Algebra

Linear equations and inequalities, functions, linear functions, slope, exponents, polynomials, quadratic equations, rational expressions, rational equations, and applications. Satisfactory/Unsatisfactory grading only. Not open to students with credit in MATH 070, 090, or a mathematics course at or above the 100-level. No graduation credit. **Prerequisite(s):** Appropriate score on the department placement test.

MATH 090 5 hrs.
Intermediate Algebra

Linear equations, rational expressions, quadratic equations, graphing, exponentials and logarithms, systems of linear equations. Satisfactory/Unsatisfactory grading only. Not open to students with credit in MATH 092 or a mathematics course at or above the 100-level. No graduation credit. **Prerequisite(s):** MATH 070 or MATH 075, or appropriate performance on the UIC mathematics test.

MATH 092 5 hrs.
Intermediate Algebra with Cooperative Preparatory Chemistry

Linear equations, quadratic equations, rational expressions, exponentials and logarithms, factoring, graphing, and systems of linear equations; chemical applications used throughout the course. Satisfactory/Unsatisfactory grading only. Not open to students with credit in MATH 090, CHEM 101, or a mathematics course at or above the 100-level. No graduation credit. **Prerequisite(s):** MATH 070 or MATH 075 or appropriate performance on the UIC mathematics placement test. Must enroll concurrently in CHEM 102.

MATH 118 5 hrs.

Mathematical Reasoning
Elementary topics from algebra applied to descriptive statistics of data, scatter plots, correlation, linear regression, probability, random samples, sampling distributions, experimental designs. Graphing calculator used. No credit given if the student has credit in MATH 150 or 160 or 165 or 180, or the equivalent. No credit given if the student has credit in MATH 121 with a grade of C or better. No graduation credit for architecture, business administration, or engineering students. The only mathematics department course for which MATH 118 serves as a prerequisite is MATH 123. It may serve as a prerequisite for statistics courses in the social sciences. It does not replace MATH 090 as a prerequisite for any other mathematics department course. **Prerequisite(s):** MATH 070, or MATH 075, or appropriate performance on the UIC mathematics placement test.

MATH 121 5 hrs.

Precalculus Mathematics
Logarithms, radicals, graphing of rational functions, complex numbers, trigonometry, DeMoivre's formula, theory of equations, sequences, systems of linear equations. No credit for students who have credit in MATH 165, MATH 180, or MATH 205. No graduation credit for architecture, business administration, or engineering students. **Prerequisite(s):** MATH 090 or MATH 092 or appropriate performance on the UIC mathematics placement test.

MATH 122 1 hour.

Emerging Scholars Workshop for Precalculus Mathematics
Intensive math workshop for students enrolled in MATH 121. Students work together in groups to solve challenging problems. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Admission to the Emerging Scholars Program. Must enroll concurrently in MATH 121.

MATH 123 5 hrs.

Quantitative Reasoning
Choice of models for real-world problems, using elementary functions, linear equations, and graphs. Statistical data analysis, confidence intervals, estimation, testing. Graphing calculator and PC applications. No credit given if the student has credit in MATH 150 or 160 or 165 or 180, or the equivalent. No credit given if the student has credit in MATH 121 with a grade of C or better. No graduation credit for architecture, business administration, or engineering students. **Prerequisite(s):** Grade of C or better in MATH 118.

MATH 140 4 hrs.

Arithmetic and Algebraic Structures
Introduction to conceptual foundations of mathematics. Topics include measurement, numeration, number theory, set theory,

equations in one variable. Use of full purpose calculator throughout. **Prerequisite(s):** MATH 090 or MATH 092 or appropriate performance on the UIC mathematics placement test.

MATH 141 4 hrs.

Algebraic and Geometric Structures
Area, perimeter, volume, surface area of plane and solid figures; integers, real and rational numbers; trigonometry and extended solution of general polygons; probability. Full purpose calculators used. Designed for students in the BA in Elementary Education program. **Prerequisite(s):** Grade of C or better in MATH 140.

MATH 145 4 hrs.

Effective Thinking from Mathematical Ideas
Investigates diverse mathematical concepts and highlights effective methods of reasoning relevant to real life. Topics include reasoning about numbers, infinity, the fourth dimension, topological space, chaos and fractals, and analyzing chance. **Prerequisite(s):** MATH 090 or MATH 092 or appropriate performance on the UIC mathematics placement test or consent of the instructor.

MATH 150 3 hrs.

Finite Mathematics
Logic, sets, counting techniques, probability, vectors and matrices, computer programming. Credit is not given for MATH 150 if the student has credit for MATH 160. **Prerequisite(s):** MATH 090 or MATH 092 or Grade of C or better in MATH 121 or appropriate performance on the UIC mathematics placement test. *Natural World—No Lab course.*

MATH 160 5 hrs.

Finite Mathematics for Business
Introduction to probability, statistics, and matrices, with emphasis on business applications. Credit is not given for MATH 160 if the student has credit for MATH 150. **Prerequisite(s):** MATH 090 or MATH 092 or a grade of C or better in MATH 121 or appropriate performance on the UIC mathematics placement test or a MATH ACT subscore of 27. *Natural World—No Lab course.*

MATH 165 5 hrs.

Calculus for Business
Introduction to differential and integral calculus of algebraic, exponential, and logarithmic functions and techniques of partial derivatives and optimization. Emphasis on business applications. Credit is not given for MATH 165 if the student has credit for MATH 180. **Prerequisite(s):** MATH 090 or MATH 092 or grade of C or better in MATH 121 or appropriate performance on the UIC mathematics placement test or a MATH ACT subscore of 27. *Natural World—No Lab course.*

MATH 179 1 hour.

Emerging Scholars Workshop for Calculus I
Intensive math workshop for students enrolled in MATH 180. Students work together in groups to solve challenging problems. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Admission to the Emerging Scholars Program. Must enroll concurrently in MATH 180.

MATH 180 5 hrs.

Calculus I
Differentiation, curve sketching, maximum-minimum problems, related rates, mean-value theorem, antiderivative, Riemann integral, logarithm, and exponential functions. Credit is not given for MATH 180 if the student has credit for MATH 165. **Prerequisite(s):** Grade of C or better in MATH 121 or appropriate performance on the department placement test or a MATH ACT subscore of 28. *Natural World—No Lab course.*

MATH 181 5 hrs.

Calculus II
Techniques of integration, arc length, solids of revolution, applications, polar coordinates, parametric equations, infinite sequences and series, power series. **Prerequisite(s):** Grade of C or better in MATH 180. *Natural World—No Lab course.*

MATH 182 1 hour.

Emerging Scholars Workshop for Calculus II
Intensive math workshop for students enrolled in MATH 181. Students work together in groups to solve challenging problems. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Admission to the Emerging Scholars Program. Must enroll concurrently in MATH 181.

MATH 194 1–4 hrs.

Special Topics in Mathematics
Course content is announced prior to each term in which it is given. May be repeated. **Prerequisite(s):** Approval of the department.

MATH 205 5 hrs.

Advanced Mathematics for Business
Introduction to integral calculus and its applications; probability, random variables, distributions (using calculus); linear algebra and applications; optimization. Credit is not given for MATH 205 for majors in Mathematics and Computer Science, Mathematics, and Teaching of Mathematics. **Prerequisite(s):** Grade of C or better in MATH 160; and grade of C or better in MATH 165 or grade of C or better in MATH 180. For students in the College of Business Administration; others by approval of the department.

MATH 210 3 hrs.

Calculus III
Vectors in the plane and space, vector valued functions, functions of several variables, partial

differentiation, maximum-minimum problems, double and triple integrals, applications, Green's theorem. **Prerequisite(s):** Grade of C or better in MATH 181. *Natural World—No Lab course.*

MATH 211 1 hour.

Emerging Scholars Workshop for Calculus III
Intensive math workshop for students enrolled in MATH 210. Students work together in groups to solve challenging problems. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Admission to the Emerging Scholars Program. Must enroll concurrently in MATH 210.

MATH 215 3 hrs.

Introduction to Advanced Mathematics
Introduction to methods of proofs used in different fields in mathematics. **Prerequisite(s):** Grade of C or better in MATH 181 and approval of the department.

MATH 220 3 hrs.

Introduction to Differential Equations
Techniques and applications of differential equations. First order equations: separable and linear. Linear second order equations, Laplace transforms, and series solutions. Graphical and numerical methods. Fourier series and partial differential equations. **Prerequisite(s):** Grade of C or better in MATH 210.

MATH 294 1–4 hrs.

Special Topics in Mathematics
Course content is announced prior to each term in which it is given. May be repeated. **Prerequisite(s):** Approval of the department.

MATH 300 1 hour.

Writing for Mathematics
Fulfills Writing-in-the-Discipline requirement. **Prerequisite(s):** ENGL 161 or the equivalent, and a grade of C or better in MATH 210. Students must have declared a major in the Department of Mathematics, Statistics, and Computer Science.

MATH 310 3 hrs.

Applied Linear Algebra
Matrices, Gaussian elimination, vector spaces, LU-decomposition, orthogonality, Gram-Schmidt process, determinants, inner products, eigenvalue problems, applications to differential equations and Markov processes. Credit is not given for MATH 310 if the student has credit for MATH 320. **Prerequisite(s):** Grade of C or better in MATH 210.

MATH 313 3 hrs.

Analysis I
The real number system, limits, continuous functions, differentiability, the Riemann integral. **Prerequisite(s):** Grade of C or better in MATH 215 or consent of the instructor.

MATH 320 3 hrs.**Linear Algebra I**

Linear equations, Gaussian elimination, matrices, vector spaces, linear transformations, determinants, eigenvalues, and eigenvectors. Credit is not given for MATH 320 if the student has credit for MATH 310.

Prerequisite(s): Concurrent registration in MATH 215.

MATH 330 3 hrs.**Abstract Algebra I**

Sets, properties of integers, groups, rings, fields.

Prerequisite(s): Grade of C or better in MATH 215.

MATH 394 2–4 hrs.**Special Topics in Mathematics**

Course content is announced prior to each term in which it is given. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MATH 410 3 OR 4 hrs.**Advanced Calculus I**

Functions of several variables, differentials, theorems of partial differentiation. Calculus of vector fields, line and surface integrals, conservative fields, Stokes's and divergence theorems. Cartesian tensors. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 210.

MATH 411 3 OR 4 hrs.**Advanced Calculus II**

Implicit and inverse function theorems, transformations, Jacobians. Point-set theory. Sequences, infinite series, convergence tests, uniform convergence. Improper integrals, gamma and beta functions, Laplace transform. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 410.

MATH 414 3 OR 4 hrs.**Analysis II**

Sequences and series of functions. Uniform convergence. Taylor's theorem. Topology of metric spaces, with emphasis on the real numbers. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 313.

MATH 417 3 OR 4 hrs.**Complex Analysis with Applications**

Complex numbers, analytic functions, complex integration, Taylor and Laurent series, residue calculus, branch cuts, conformal mapping, argument principle, Rouché's theorem, Poisson integral formula, analytic continuation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade C or better in MATH 210.

MATH 419 3 OR 4 hrs.**Models in Applied Mathematics**

Introduction to mathematical modeling; scaling, graphical methods, optimization, computer simulation, stability, differential equation models, elementary

numerical methods, applications in biology, chemistry, engineering, and physics. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in MATH 220 and grade of C or better in MCS 260.

MATH 425 3 OR 4 hrs.**Linear Algebra II**

Canonical forms of a linear transformation, inner product spaces, spectral theorem, principal axis theorem, quadratic forms, special topics such as linear programming. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 320.

MATH 430 3 OR 4 hrs.**Formal Logic I**

First order logic, syntax and semantics, completeness-incompleteness. 3 undergraduate hrs. 4 graduate hrs. Credit is not given for MATH 430 if the student has credit for PHIL 416.

Prerequisite(s): Grade of C or better in CS 202 or grade of C or better in MCS 261 or grade of C or better in MATH 215.

MATH 431 3 OR 4 hrs.**Abstract Algebra II**

Further topics in abstract algebra: Sylow Theorems, Galois Theory, finitely generated modules over a principal ideal domain. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 320 and grade of C or better in MATH 330.

MATH 435 3 OR 4 hrs.**Foundations of Number Theory**

Primes, divisibility, congruences, Chinese remainder theorem, primitive roots, quadratic residues, quadratic reciprocity, and Jacobi symbols. The Euclidean algorithm and strategies of computer programming. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 215.

MATH 436 3 OR 4 hrs.**Number Theory for Applications**

Primality testing methods of Lehmer, Rumely, Cohen-Lenstra, Atkin. Factorization methods of Gauss, Pollard, Shanks, Lenstra, and quadratic sieve. Computer algorithms involving libraries and nested subroutines. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 435.

MATH 442 3 OR 4 hrs.**Differential Geometry of Curves and Surfaces**

Frenet formulas, isoperimetric inequality, local theory of surfaces, Gaussian and mean curvature, geodesics, parallelism, and the Gauss-Bonnet theorem. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 320.

MATH 445 3 OR 4 hrs.**Introduction to Topology I**

Elements of metric spaces and topological spaces including product and quotient spaces,

compactness, connectedness, and completeness. Examples from Euclidean space and function spaces. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 313.

MATH 446 3 OR 4 hrs.**Introduction to Topology II**

Topics in topology chosen from the following: advanced point set topology, piecewise linear topology, fundamental group and knots, differential topology, applications to physics and biology. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 445.

MATH 480 3 OR 4 hrs.**Applied Differential Equations**

Linear first-order systems.

Numerical methods. Nonlinear differential equations and stability. Introduction to partial differential equations. Sturm-Liouville theory. Boundary value problems and Green's functions. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in MATH 220.

MATH 481 3 OR 4 hrs.**Applied Partial Differential Equations**

Initial value and boundary value problems for second order linear equations. Eigenfunction expansions and Sturm-Liouville theory. Green's functions. Fourier transform. Characteristics. Laplace transform. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 220.

MATH 494 3 OR 4 hrs.**Special Topics in Mathematics**

Course content is announced prior to each term in which it is given. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MATH 496 1–4 hrs.**Independent Study**

Reading course supervised by a faculty member. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the instructor and the department.

Mathematics Teaching**MTHT 400 3 OR 4 hrs.****Methods of Teaching Secondary Mathematics I**

Philosophies, issues, techniques, and styles of teaching high school mathematics. Implications of psychological models. Mathematics in the evolving curriculum. Preparation of lessons. 3 undergraduate hrs. 4 graduate hrs. To be taken in the year prior to student teaching.

Prerequisite(s): Grade of C or better in MTHT 410, enrollment in BS or MS in the Teaching of Mathematics program

in Secondary Mathematics Education, and a 2.50 grade point average in mathematics courses at the level of calculus or above.

MTHT 401 3 OR 4 hrs.**Methods of Teaching Secondary Mathematics II**

Philosophies, issues, techniques, and styles of teaching high school mathematics. Preparation of diverse lessons. Supervised teaching experience. 3 undergraduate hrs. 4 graduate hrs. To be taken in year prior to student teaching.

Prerequisite(s): Grade of C or better in MATH 210 and enrollment in the BS or MS in the Teaching of Mathematics program in Secondary Mathematics Education; and a 2.50 grade point average in mathematics courses at the level of calculus or above.

MTHT 411 3 OR 4 hrs.**Advanced Euclidean Geometry**

Axioms for Euclidean geometry are developed based upon reflections. Further concepts in Euclidean geometry which arise from these axioms are explored. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 215.

MTHT 420 3 OR 4 hrs.**Computers in Secondary School Mathematics**

An overview of techniques, topics and tools for teaching secondary level mathematics using computers. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 210.

MTHT 430 3 OR 4 hrs.**Mathematical Analysis for Teachers I**

Basic properties of numbers, functions, graphs, limits, differentiation, continuity, completeness of the system of real numbers. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in MATH 210 and Grade of C or better in MATH 215.

MTHT 435 3 OR 4 hrs.**Abstract Algebra**

Sets, properties of integers, groups, rings, fields. Focus on concepts applicable to high school teaching. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 210 and MATH 215.

MTHT 438 6 hrs.**Educational Practice with Seminar I**

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** 2.50 grade point average in mathematics courses at the level of calculus or above, successful completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

MTHT 439 6 hrs.
Educational Practice with Seminar II

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Credit or concurrent registration in MTHT 438; and approval of the department and a 2.50 grade point average in mathematics courses at the level of calculus or above and successful completion of 100 clock hours of pre-student teaching field experiences.

MTHT 450 3 OR 4 hrs.
Concepts and Methods in Elementary and Middle School Mathematics I

Advanced analysis of concept development and teaching methods. Sorting, classifying, counting, number tracks, addition, subtraction, group, place value, length, area, and alternative teaching strategies. 3 undergraduate hrs. 4 graduate hrs. For elementary school teachers. **Prerequisite(s):** Graduate standing and admission to the MS in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

MTHT 460 3 OR 4 hrs.
Geometric Measurement and Numerical Methods

Classical problems of length, area and volume, including numerical trigonometry, are explored using a scientific calculator. 3 undergraduate hrs. 4 graduate hrs. Do not purchase a calculator for the course until after the first day of class. **Prerequisite(s):** Admission to the MS in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

MTHT 465 3 OR 4 hrs.
Teaching Algebra for Understanding

Manipulatives and other representations of mathematical concepts used for teaching algebra to middle grade students. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Admission to the MS in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

MTHT 466 4 hrs.
Introduction to Calculus and the Graphing Calculator

Problem solving using derivatives, differentials, and their applications followed by integrals and their applications. Maximum minimum problems solved directly by graphing, then by derivatives. **Prerequisite(s):** Admission to the Mathematics Education Concentrators Program or consent of the instructor.

MTHT 467 4 hrs.
Introduction to Number Theory with Application

Classical topics of elementary number theory and how they pertain to teaching the upper grades. Primes, GCF, LCM, divisibility, floor and ceiling functions, Gaussian Residue, lattices. **Prerequisite(s):** Admission to the Mathematics Education Concentrators Program or consent of the instructor.

MTHT 468 4 hrs.
Geometry with Applications for Middle Grade Teachers

Plane and solid figures and their properties. Polygons and polyhedra. Euler's formula. Volume versus surface area. Spatial visualization; two-dimensional representations of three-dimensional figures. **Prerequisite(s):** Admission to the Mathematics Education Concentrators Program or consent of the instructor.

MTHT 470 3 OR 4 hrs.
Teaching Mathematics with Science: An Activity Approach I

Introduction to basic variables (length, area, volume, mass, time) and the Scientific Method (picture, table, graph, questions). Extensive use of TIMS project curriculum. 3 undergraduate hrs. 4 graduate hrs. For elementary school teachers. **Prerequisite(s):** Admission to the MS in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

MTHT 480 3 OR 4 hrs.
Microcomputers in Elementary School Mathematics I

Introduction to microcomputers and their use in elementary school mathematics. Basic microcomputer functions, educational software programs, pedagogical and curricular implications, and implementation questions. 3 undergraduate hrs. 4 graduate hrs. For elementary school teachers. **Prerequisite(s):** Admission to the MS in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

MTHT 490 1–5 hrs.
Topics in Teaching Secondary Mathematics

Course content is announced prior to each term in which it is given. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Prerequisites may vary according to topic.

MTHT 491 1–5 hrs.
Topics in Teaching Elementary/Junior High School Mathematics

Course content is announced prior to each term in which it is given. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Prerequisites may vary according to topic.

MTHT 496 1–4 hrs.
Independent Study

Reading course supervised by a faculty member. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the instructor and the department.

Mechanical Engineering

ME 205 3 hrs.
Introduction to Thermodynamics

Principles of energy transport and work; properties of substances and equations of state; first and second laws of thermodynamics; applications to mechanical cycles and systems. **Prerequisite(s):** PHYS 142.

ME 210 3 hrs.
Engineering Dynamics

Dynamics of particles and rigid bodies. Introduction to Linear Algebra. Kinematics in different coordinate systems, coordinate transformations. Kinetics: Newton's second law, work energy relations, impulse-momentum relations, impact problems. **Prerequisite(s):** CME 201.

ME 211 4 hrs.
Fluid Mechanics I

Fluid properties. Dimensional analysis. Statics and kinematics. Conservation equations. Inviscid and incompressible flows. Bernoulli's equation. Integral momentum theorems. Viscous flows. Boundary layer theories. Compressible Flows. **Prerequisite(s):** PHYS 141 and MATH 220.

ME 212 3 hrs.
Fundamentals of Fluid Mechanics

Fluid properties. Dimensional analysis. Statics and kinematics. Conservation equations. Inviscid and incompressible flows, Bernoulli's equation. Integral momentum theorems. Viscous flows. Turbulent flows. Boundary layer theory. Credit is not given for ME 212 if the student has credit for ME 211. **Prerequisite(s):** PHYS 141; and MATH 220.

ME 250 3 hrs.
Engineering Graphics and Design

Principles of multiview projection. Related industrial standards, applications to all engineering disciplines. Computer-aided design. Computer programming, graphics. **Prerequisite(s):** Eligibility to register for ENGL 160 and credit or concurrent registration in CS 102 or CS 107 or CS 108.

ME 261 2 hrs.
Materials for Manufacturing

Introductory-level course in materials engineering to familiarize students with relationships between processing, structure and properties of materials used to manufacture devices. **Same as** CME 261. Credit is not given for

CME 261/ME 261 if the student has credit for CME 260.

Prerequisite(s): CHEM 112 and MATH 181 and PHYS 141.

ME 293 1–4 hrs.
Special Problems

Special problems, readings or research under close supervision of a faculty member in the area of engineering graphics. May be repeated. **Prerequisite(s):** Consent of the instructor.

ME 308 3 hrs.
Mechanical Vibrations

Free and forced vibrations of damped linear single and multiple degree of freedom systems. Approximate methods, instrumentation, and applications. **Same as** CME 359. **Prerequisite(s):** ME 210 and MATH 220.

ME 312 3 hrs.
Dynamic Systems and Control

Dynamics of linear systems. Modeling of mechanical, electrical, fluid, and thermal systems. Analysis and design of feedback control systems. Analytical, computer and experimental solution methods. Time and frequency domain techniques. **Same as** IE 312. **Prerequisite(s):** MATH 220 and PHYS 142; and sophomore standing or above; or approval of the department.

ME 318 3 hrs.
Fluid Mechanics II

Conservation equations for fluid mechanics, inviscid ideal flows, viscous flow solutions of Navier-Stokes equations, pipe flows and boundary flows, compressible flow, computer solutions and applications. **Prerequisite(s):** ME 211.

ME 320 4 hrs.
Mechanisms and Dynamics of Machinery

Kinematic analysis and synthesis of mechanisms; linkages, cams, spur gears, gear trains. Dynamic forces in machines; bearing reactions, balancing, flywheel design, friction, efficiency. **Prerequisite(s):** ME 210.

ME 321 4 hrs.
Heat Transfer

Modes of heat transfer, material properties, one- and two-dimensional conduction. Extended surfaces. Forced and free convection. Heat exchangers. Radiation. Shape factors. Laboratories in conduction, convection, and radiation. **Prerequisite(s):** ME 205 and ME 211.

ME 325 3 hrs.
Intermediate Thermodynamics

In-depth study of thermodynamic principles, thermodynamics of state, vapor and gas power cycles, refrigeration cycles, thermodynamics of nonreacting and reacting mixtures, internal combustion engines, and thermodynamics of equilibrium. **Prerequisite(s):** ME 205 and credit or concurrent registration in ME 211.

ME 341 3 hrs.
Experimental Methods in Mechanical Engineering

Introduction to the theory and practice of experimental methods, measurement techniques, instrumentation, data acquisition and data analysis in mechanical and thermal-fluid systems. Experiments and reports.

Prerequisite(s): CME 203 and ME 211; and credit or concurrent registration in ME 308.

ME 370 3 hrs.
Design of Machine Components

Applications of mathematics, materials science and strength of materials to machine component design; includes fasteners, springs, gears, bearings, chains, clutches and shafts.

Prerequisite(s): CME 203 and ME 320.

ME 380 3 hrs.
Manufacturing Process Principles

Introduction to basic manufacturing processes such as casting, bulk deformation, sheet metal forming, metal cutting. Interaction between materials, design and manufacturing method. Economics of manufacturing. **Same as** IE 380.

Prerequisite(s): CME 203.

ME 392 1–3 hrs.
Undergraduate Research

Research under close supervision of a faculty member. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Consent of the head of the department.

ME 396 4 hrs.
Senior Design I

Systematic approach to the design process. Creative problem solving. Design methodology and engineering principles applied to open-ended design problems with inherent breadth and innovation. **Same as** IE 396.

Prerequisite(s): Senior standing; completion of all core courses and consent of the instructor.

ME 401 3 OR 4 hrs.
Applied Stress Analysis I

Complex bending and torsion, curved flexural members, energy methods in design, theories of failure. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CME 203.

ME 408 3 OR 4 hrs.
Intermediate Vibration Theory

Free and forced vibrations of multi-degree of freedom linear systems. Lagrangian dynamics, matrix, approximate and numerical methods. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): ME 308.

ME 409 3 OR 4 hrs.
Advanced Kinematics I

Kinematic synthesis of planar linkages. Higher-order, precision point and approximate synthesis. Unified treatment of position, function, and path-angle problems. Consideration of branching and rotatability. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): ME 320.

ME 410 3 OR 4 hrs.
Automation and Robotics Applications

Basic pneumatic and hydraulic systems. Design of sequential control circuits and ladder diagrams. Robot kinematics and dynamics. Robot design.

Trajectory planning. Applications and demonstrations. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 210.

ME 411 0–4 hrs.
Mechatronics I

Elements of mechatronic systems, sensors, actuators, microcontrollers, modeling, hardware in the loop simulations, real-time software, electromechanical systems laboratory experiments.

Same as IE 411. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required.

Prerequisite(s): Senior standing or above; or approval of the department.

ME 412 3 OR 4 hrs.
Dynamic Systems Analysis I

Classical control theory, concept of feedback, laplace transform, transfer functions, control system characteristics, root locus, frequency response, compensator design. **Same as** IE 412. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 308.

ME 413 3 OR 4 hrs.
Dynamics of Mechanical Systems

Degrees of freedom, generalized coordinates, principle of virtual work. D'Alembert's Principle, Lagrange's Equation, Hamilton's Principle. Equations of motion and Newton-Euler equations for rigid bodies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 320.

ME 414 3 OR 4 hrs.
Theory of Gearing and Applications

Classification of gear drives. Geometry of plane and spatial gears. Analysis and synthesis of gears with approximate meshing. Applications to spur, helical, worm and bevel gear drives. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 320.

ME 415 3 OR 4 hrs.
Propulsion Theory

Thermodynamics and fluid mechanics of air-breathing engines, performance of rockets; chemical and nuclear rockets. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 419 or the equivalent.

ME 417 3 OR 4 hrs.
Intermediate Fluid Mechanics

Development of conservation equations for Newtonian-fluids; continuity, Navier-Stokes and energy equations. Some exact and approximate solutions of highly viscous, viscous and inviscid flows. Boundary layer flows, jets and wakes. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 321.

ME 419 3 OR 4 hrs.
Compressible Flow Theory

Conservation laws, one-dimensional flows. Normal and oblique shock waves, Prandtl-Meyer expansion, flow over airfoils.

Applications to nozzles, shock-tubes, wind-tunnels. Flow with friction and heat addition or loss. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 321.

ME 421 3 OR 4 hrs.
Intermediate Heat Transfer

Topics in conduction, convection and radiation with emphasis on exact solutions: extended surfaces, internal and external flows, surface radiation, combined modes of heat transfer and selected topics. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): ME 321 or consent of the instructor.

ME 422 3 OR 4 hrs.
Heating, Ventilation, and Air Conditioning

Refrigeration systems and heat-pump, mass transfer in humidification, solar heat transfer in buildings, heating and cooling loads, air-conditioning computer project. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 321.

ME 423 3 OR 4 hrs.
Heat Exchangers

Classification; heat transfer and pressure drop analysis, flow distribution, transient performance, surface selection and geometrical properties, codes and standards. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 211 and ME 321.

ME 424 3 OR 4 hrs.
Energy Management Solutions for Industry: Theory and Practice

Emphasis on real-world applications including: understanding utility billing and identifying costs; identifying and quantifying energy savings opportunities at industrial facilities; determining investment payback scenarios and considerations. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. Fieldwork required. Extensive use of Microsoft Excel. **Prerequisite(s):** Junior standing or above.

ME 425 3 OR 4 hrs.
Second Law Analysis in Energy Engineering

Fundamentals: lost available work. Entropy generation minimization, optimal thermal design of: heat transfer augmentation devices, thermal energy storage, cryogenics, heat exchangers, thermal insulations, solar collectors. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 321.

ME 426 3 OR 4 hrs.
Applied Combustion

Topics in combustion, providing both a theoretical and applied understanding of combustion processes as they relate to furnaces. Internal and external combustion engines; pollutant formation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 325.

ME 427 3 OR 4 hrs.
Solar Engineering

Applications; solar geometry and intensities; applied heat transfer topics; flat plate and concentrating collectors; energy storage; analysis of heating and cooling systems. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 321 or consent of the instructor.

ME 428 3 OR 4 hrs.
Numerical Methods in Mechanical Engineering

Introduction to numerical solution methods for problems in mechanical engineering. Example problems include heat transfer, fluid mechanics, thermodynamics, mechanical vibrations, dynamics, stress analysis, and other related problems. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): CS 108 and senior standing.

ME 429 3 OR 4 hrs.
Internal Combustion Engines

Introduction to engine types, characteristics and performance. Combustion processes in spark and compression ignition engines; combustion abnormalities. Analysis of intake, exhaust and fuel system. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): ME 325.

ME 433 3 OR 4 hrs.
Nonequilibrium Thermal Processes

Molecular engineering. Nonequilibrium statistical mechanics. Distribution functions. Molecular excitation and de-excitation. Ionization and dissociation. Laser engineering. Nonequilibrium chemical kinetics. Surface processes. Chemisorption and physisorption. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ME 325 or consent of the instructor.

ME 441 0–4 hrs.
Optical Methods in Mechanical Engineering

Optical measurement techniques in solid mechanics and thermal-fluid engineering. Fundamentals of optics. Use of holography, interferometry, LDV, lasers, light scattering, diffraction, and other relevant techniques. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Senior standing or consent of the instructor.

ME 444 3 OR 4 hrs.
Interdisciplinary Product Development I

Cross-functional teams (w/students from AD 420/423 and MKTG 594) research and develop new product concepts. Focus on the identification of technologically appropriate product design problems. **Same as** IE 444. 3 undergraduate hrs. 4 graduate hrs. Year-long (with IE/ME 445) project course.

Prerequisite(s): Senior standing or above; and consent of the instructor.

ME 445 4 hrs.
Interdisciplinary Product Development 2

Cross-functional teams (w/students from AD 420 and MKTG 594) research and develop new product concepts. Focus on solutions to the opportunities identified in IE/ME 444 to functional prototypes. Serves as a replacement for IE/ME 396. **Same as** IE 445. Year-long (with IE/ME 444) project course.

Prerequisite(s): IE 444 or ME 444; and senior standing or above; and consent of the instructor.

ME 447 0–4 hrs.
Introduction to Computer-Aided Design

Conventional and computer-assisted methods in design. Geometry manipulation. Computer-aided modeling with curves, surfaces, and solids. Design with finite-element analysis. PRO/Engineer and PRO/Mechanica. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** MATH 220 and ME 250.

ME 449 0–5 hrs.
Microdevices and Micromachining Technology
Microfabrication techniques for microsensors, microstructures, and microdevices. Selected examples of physical/chemical sensors and actuators. Simulation experiments. Laboratory. **Same as** ECE 449. 4 undergraduate hrs. 5 graduate hrs. Previously listed as EECs 449. **Prerequisite(s):** ECE 347.

ME 450 4 hrs.
Air Pollution Engineering
Environmental aspects of combustion processes, pollutant formation. Control of pollutants and particulates. Air quality control. Fundamentals of combustion. **Same as** CHE 450. **Prerequisite(s):** ME 321 or consent of the instructor.

ME 464 0–4 hrs.
Virtual Automation
Fundamentals of manufacturing and automation modeling using CAD/CAM and computer-integrated manufacturing methods; concepts of virtual manufacturing; industrial robots and automated factory models within virtual environments. **Same as** IE 464. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CS 107 or CS 108.

ME 468 3 OR 4 hrs.
Virtual Manufacturing
Virtual reality applications in manufacturing systems design, manufacturing applications of networked virtual reality, virtual reality modeling of occupational safety engineering. **Same as** IE 468. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** CS 107 or CS 108.

ME 494 3 OR 4 hrs.
Special Topics in Mechanical Engineering
Particular topics vary from term to term depending on the interests of the students and the spe-

cialties of the instructor. 3 undergraduate hrs. 4 graduate hrs. May be repeated. **Prerequisite(s):** Consent of the instructor.

ME 499 0 hrs.
Professional Development Seminar

Students are provided general information about their role as UIC Mechanical Engineering alumni in society and the role of the University in their future careers. Students provide evaluations of their educational experience in the MIE department. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Open only to seniors; and approval of the department. Must be taken in the student's last semester of study.

Medicinal Chemistry and Pharmacognosy

PMMP 365 2 hrs.
Contemporary Pharmacognosy
Importance of plants in American Healthcare and as a potential source of new drugs. **Prerequisite(s):** Enrollment in the Doctor of Pharmacy program.

PMMP 380 1–3 hrs.
Undergraduate Research in Medicinal Chemistry and Pharmacognosy
Investigation, under the direction of one or more faculty members, of a problem of limited scope. May require literature research related to the research project. May be repeated. A maximum of 6 hours of credit is allowed per department. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Minimum cumulative grade point average of 2.50 and consent of the instructor, department head, and Associate dean for student affairs.

PMMP 381 1 hour.
Professional Development Seminar I
Weekly seminar series for second professional year pharmacy students. Discusses educational issues related to the second professional year. Students create/update Curriculum Vitae; explore various pharmacy career opportunities. Credit is not given for PMMP 381 if the student has credit for BPS 381 or PMAD 381 or PMPR 371. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMMP 382 1 hour.
Professional Development Seminar II
Weekly seminar series for second year pharmacy students. Discusses educational issues related to the second professional year. Students create/update Curriculum Vitae; explore pharmacy career opportunities through exposure to distin-

guished guests. Credit is not given for PMMP 382 if the student has credit for BPS 382 or PMAD 382. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMMP 383 1 hour.
Professional Development Seminar III
Weekly seminar series for third professional year pharmacy students. Discusses relevant educational and professional issues. Update CV/Resume and Portfolio. Explore pharmacy career opportunities with invited guests. Credit is not given for PMMP 383 if the student has credit for BPS 383 or PMAD 383. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMMP 384 1 hour.
Professional Development Seminar IV
Weekly seminar series for Third-year pharmacy students. Discusses with advisees relevant educational and professional issues. Update Curriculum Vitae or Resume and Portfolio. Explore pharmacy career opportunities with invited guests. Credit is not given for PMMP 384 if the student has credit for BPS 384 or PMAD 384. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMMP 385 1–3 hrs.
Special Topics in Medicinal Chemistry and Pharmacognosy
Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for one offering only. **Prerequisite(s):** Good academic standing and consent of the instructor.

PMMP 390 1–2 hrs.
Special Projects in Medicinal Chemistry and Pharmacognosy
Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. May be repeated. A maximum of 4 hours of 390 credit is allowed in all departments. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Consent of the instructor, department head, and Associate dean for student affairs.

PMMP 395 1 hour.
Biophysical Chemistry of Water
The properties of water, its fundamental structure, behavior as a solvent, and importance in biological systems. **Prerequisite(s):** PHYB 301; or consent of the instructor and good academic standing.

PMMP 412 2 hrs.
Pharmaceutical Applications of Genomics and Bioinformatics
Introduction to genomics and bioinformatics for advanced pharmacy students. Principles of gene expression, DNA sequencing in bacterial and human genomes, with emphasis on diagnostic and therapeutic applications. **Same as** MDCH 412. **Prerequisite(s):** PHAR 331 or consent of the instructor. For graduate students: one or two semesters of basic molecular biology and/or biochemistry with a grade of B or better.

PMMP 460 3 hrs.
Organic Medicinal Chemistry I
Organic reactions in terms of their mechanisms and utility in the field of medicinal chemistry, particularly in the synthesis of medicinal agents. Upper division elective taught simultaneously with MDCH 560, however, does not meet the prerequisite requirement of the medicinal chemistry graduate program. **Prerequisite(s):** One year of organic chemistry with laboratory.

Microbiology and Immunology

MIM 326 3 hrs.
Introduction to Medical Microbiology
Introduction to the fundamental aspects of bacterial, fungal, and viral pathogenesis, therapy, control and prevention of infectious diseases. This is one of the recommended courses for pre-nursing at UIC. **Prerequisite(s):** BIOS 100 and CHEM 112 or the equivalent.

MIM 425 3 hrs.
Fundamentals of Immunology and Microbiology
Mechanisms of host defense; antigens, immunoglobulins and their reactions; antibody synthesis, regulation and the cellular immune response; bacterial and viral structure and function; mechanisms of pathogenesis. **Prerequisite(s):** Consent of the instructor or registration in the College of Medicine.

MIM 426 3 hrs.
Microorganisms as Agents of Human Disease
Fundamental aspects of bacterial, fungal and viral pathogenesis, therapy, control and prevention of infectious diseases. **Prerequisite(s):** Consent of the instructor.

Military Science

MILS 101 1 hour.
U.S. Defense Establishment
Authority relationships and structural aspects of the defense establishment; role of the U.S. Army as an instrument of national power. A practical laboratory is required.

MILS 102 1 hour.
Customs and Traditions of the Military

Fundamentals, principles, and traits of leadership; discussion and practical application of communication and counseling techniques. A practical laboratory is required.

MILS 111 1 hour.
Introduction to the Military Physical Fitness Training Program

Intended as an introduction to Army physical fitness. The students will gradually improve their level of physical fitness over the course of a semester. May be repeated to a maximum of 2 hrs.

MILS 121 1 hour.
Intermediate Military Physical Fitness Training Program

Intended as a continuation of MILS 111. May be repeated to a maximum of 2 hrs.

MILS 131 1 hour.
Design and Implementation of a Military Physical Fitness Training Program

Intended for juniors participating in ROTC. Students are responsible for designing and implementing a military physical fitness training program. May be repeated to a maximum of 2 hrs. Requires concurrent registration in MILS 301 or MILS 302.

MILS 141 1 hour.
Evaluation of a Military Physical Fitness Training Program

Intended for seniors participating in ROTC. Students are responsible for evaluating the effectiveness of a military physical fitness training program. May be repeated to a maximum of 2 hrs. Requires concurrent registration in MILS 311 or MILS 312.

MILS 199 1–3 hrs.
Military Topics

Research and study of selected topics. A practical laboratory is required. May be repeated to a maximum of 4 hours if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MILS 201 2 hrs.
Fundamentals of Leadership, Organization, and Planning

Techniques in conducting military briefings, writing in Army style, and issuing oral orders. Review "Code of Conduct" and ethical obligations. A practical laboratory is required.

MILS 202 2 hrs.
Leadership Dynamics

Role of intermediate supervisors in military operations; introduction to professional ethics and characteristics of the Army officer corps. A practical laboratory is required.

MILS 217 3 hrs.
Introduction to United States Military History

Analytical study of American military history, doctrine, strategy, and tactics from their origin through the present. Emphasis on leadership, strategy, the principles of war, and growth of the military in the US. **Same as** HIST 217. Previously listed as MILS 107.

MILS 301 3 hrs.
Military Operations and Tactics

Introduction to the principles of war; practical exercises in small unit leadership, combined arms operations. A practical laboratory is required. **Prerequisite(s):** MILS 101 and MILS 102 and MILS 201 and MILS 202 and approval of the department.

MILS 302 3 hrs.
Organizational Leaders

Study of group processes, motivation, communications, socialization, organizational effectiveness, and the impact of leader behavior. A practical laboratory is required. **Prerequisite(s):** MILS 101 and MILS 102 and MILS 201 and MILS 202 or the equivalent courses and approval of the department.

MILS 311 3 hrs.
Military Law

Nature, structure, powers, and procedures of the Uniform Code of Military Justice. A practical laboratory is required. **Prerequisite(s):** MILS 301 and MILS 302 and approval of the department.

MILS 312 3 hrs.
Training and Resource Management

Nature of command and staff relationships; theory and application of U.S. Army training management doctrine. A practical laboratory is required. **Prerequisite(s):** MILS 301 and MILS 302 and approval of the department.

MILS 394 1–3 hrs.
Advanced Military Topics

Study of advanced topics in military science. A practical laboratory is required. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MILS 399 1–3 hrs.
Advanced Independent Research

Intensive research and study of selected topics. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. A practical laboratory may be required. **Prerequisite(s):** Approval of the department.

Modern Greek

GKM 101 4 hrs.
Elementary Modern Greek I

Fundamentals of standard modern Greek at the beginning level, including pronunciation, grammar, reading, conversation, and composition.

GKM 102 4 hrs.
Elementary Modern Greek II

Continues study of standard modern Greek grammar, reading, conversation, and composition. **Prerequisite(s):** GKM 101.

GKM 103 4 hrs.
Intermediate Modern Greek I

Introduces complex grammatical constructions. Improves speaking and writing ability. Develops oral composition of standard modern Greek. Greek used for conversation, English for explanation. **Prerequisite(s):** GKM 102 or the equivalent.

GKM 104 4 hrs.
Intermediate Modern Greek II

Further develops writing, speaking, and comprehension. Focuses on idiomatic expressions. Lectures often conducted in Modern Greek. **Prerequisite(s):** GKM 103 or the equivalent.

GKM 105 3 hrs.
Modern Greek Culture

Introduction to a variety of aspects of modern Greek culture, including basic information about the country. Readings consist partly of secondary literature (i.e., non-literary texts) and partly of relevant examples of Modern Greek literature. Taught in English. *World Cultures course.*

GKM 201 3 hrs.
Introduction to Katharevousa

An introduction to Katharevousa, the official language of modern Greece until 1976. **Prerequisite(s):** GKM 101 and 102 and 103 and 104; or demonstrated fluency in spoken Modern Greek.

GKM 203 3 hrs.
Modern Greek Authors in Translation

Basic introduction to the literary output of Modern Greece, looking at its historical and literary background, sampling some of the main poets and novelists (particularly of the 19th and 20th centuries), also with a look at Greek-American writing. Taught in English. **Prerequisite(s):** Sophomore standing or above. *World Cultures course.*

GKM 209 3 hrs.

The Byzantine Empire
The East Roman Empire from its creation by Diocletian and Constantine to its conquest by the Ottoman Turks. **Same as** HIST 209.

GKM 285 3 hrs.
Cultural History of Modern Greece: 1453 to the Present
Survey of the cultural history of modern Greece, from the end of

the Byzantine Empire in 1453 to the end of the present. Taught in English. **Same as** HIST 285. *Past course.*

GKM 286 3 hrs.
Modern Greek Cities: Historical-Ethnographic Survey

This course is designed as an historical and ethnographic survey of the communities and culture of Modern Greek urban centers, from the early modern period to the present. Taught in English. **Same as** HIST 286. *Past course.*

GKM 298 3 hrs.
Topics in Modern Greek Studies

Selected topics at an intermediate level in Modern Greek Studies. May be repeated. Students may register for more than one section per term. Taught in English. **Prerequisite(s):** Consent of the instructor. **Recommended background:** GKM 105.

GKM 299 1–4 hrs.
Independent Study

An individual study under faculty direction in which a student can examine various aspects of Modern Greek culture and language through readings and papers. May be repeated. Students may register for more than one section per term. **Prerequisite(s):** Consent of the instructor. **Recommended background:** GKM 105.

Moving Image Arts

MOVI 102 3 hrs.
Introduction to Film

Representative selections from a variety of periods and forms. Development of analytical skills in the reading of film. **Same as** ENGL 102. *Creative Arts course.*

MOVI 200 3 hrs.
Communication Technologies

History, development, and social impact of communication technology: print, broadcast, cable, satellite, computer, Internet. Issues related to infrastructure, regulation, access, globalization, conveyance, and change. **Same as** COMM 200. **Prerequisite(s):** COMM 103 and sophomore standing or above and approval of the department. **Course Information:** **Registration restrictions:** For Moving Image Arts minors must obtain approval of the Department of Communication.

MOVI 232 3 hrs.
History of Film I: 1890 to World War II

History of film from its beginnings in the 1890s up to World War II. **Same as** AH 232 and ENGL 232.

MOVI 233 3 hrs.
History of Film II: World War II to the Present

History of film from World War II to contemporary movements in world cinema. **Same as** AH 233 and ENGL 233.

MOVI 234 3 hrs.
History of Television
 A critical history of television. **Same as** COMM 234 and ENGL 234. One additional hour each week for required screenings.

MOVI 302 3 hrs.
Studies in the Moving Image
 Study of a topic or movement in film and/or other media forms. **Same as** ENGL 302. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** ENGL 102 or consent of instructor.

MOVI 431 3 OR 4 hrs.
The History and Politics of Africa on Film
 Key moments and issues in African history through the eyes of African film and documentary makers. **Same as** AAST 431. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above.

Music

MUS 100 3 hrs.
Introduction to Music I
 Listening, understanding, and enjoying music. May not be taken for credit by music majors or minors. *Creative Arts course.*

MUS 101 3 hrs.
Music Theory I
 Notation of rhythm and pitch; scales, intervals, triads, and seventh chords; principles of voice leading and harmonic progression. Must enroll concurrently in MUS 103 and MUS 170.

MUS 102 3 hrs.
Music Theory II
 Nonchord tones; cadences, phrases, and periods; introduction to Schenkerian analysis; inversions of triads and seventh chords. **Prerequisite(s):** MUS 101. Must enroll concurrently in MUS 104 and MUS 171.

MUS 103 1 hour.
Ear Training I
 The development of aural perception and sight-singing ability; material is correlated with MUS 101. Must enroll concurrently in MUS 101, and MUS 170.

MUS 104 1 hour.
Ear Training II
 The development of aural perception and sight-singing ability; material is correlated with MUS 102. **Prerequisite(s):** MUS 103 or the equivalent; and concurrent registration in MUS 102 and MUS 171.

MUS 107 3 hrs.
Fundamentals of Music Theory
 Notation, metrical organization and rhythmic structure, scales and key signatures, intervals, triads, ear training, and sight singing. For the general student. May not be taken for credit by music majors or minors. *Creative Arts course.*

MUS 110 0 hrs.
Convocation/Recital
 A weekly convocation presenting concerts by faculty, visiting artists, or students. Satisfactory/Unsatisfactory grading only.

MUS 111 0 hrs.
Master Class in Performance
 Three to six master classes are offered per semester. Students must attend at least half of those offered; students must perform in one class each year. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Enrollment in the Music Performance option. **Recommended background:** Three years of private lessons.

MUS 113 3 hrs.
Art Song
 A broad historical survey of the secular art song from the Middle Ages to the present, with greatest emphasis placed on the German, French, Italian, and English song repertory of the 18th and 19th centuries. *Creative Arts course.*

MUS 114 3 hrs.
Jazz History
 A nontechnical survey of the history and development of jazz from its West African roots to contemporary styles. *Creative Arts, and Past course.*

MUS 115 3 hrs.
Opera
 Historical survey tracing the growth and development of opera from its beginnings to the present. *Creative Arts course.*

MUS 117 3 hrs.
Music for Symphony Orchestra
 Music for symphony orchestra from Haydn to Bartok: symphony, overture and tone poem. *Creative Arts course.*

MUS 119 3 hrs.
Music for the Piano
 A survey of three centuries of keyboard music, from the Baroque to the present. *Creative Arts course.*

MUS 120 3 hrs.
Jazz Improvisation I
 A study of the techniques and methods of jazz improvisation. Nonmusic majors must pass theory/ear-training pre-test. **Prerequisite(s):** Grade of B or better or concurrent registration in MUS 101 and Grade of B or better or concurrent registration in MUS 103. Requires concurrent registration in MUS 153, MUS 159 or MUS 160. **Recommended background:** Previous performance in jazz big band or small ensemble.

MUS 127 3 hrs.
Latin American Music
 Survey class that introduces students to the rich repertoire of music in Latin America. It explores the history of genres, their development, instruments and representative artists in their geographical, social, and cultural contexts. **Same as** LALS 127. *Creative Arts, and World Cultures course.*

MUS 150 1 hour.
Vocal Jazz Ensemble
 Study/performance of jazz ensemble techniques and the performance of standard vocal jazz repertoire. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** Basic music reading skills and an audition required. **Recommended background:** Previous choir experience.

MUS 151 1 hour.
Concert Band
 Introduction to varied band and wind ensemble literature. Regular band and wind ensemble literature. Regular performances during the school year. May be repeated to a maximum of 8 hrs. Occasional field trips. **Prerequisite(s):** Audition and/or consent of the instructor.

MUS 152 1 hour.
Instrumental Ensembles
 Performance of chamber ensemble literature of varied types. May be repeated to a maximum of 8 hrs. Students may register in more than one section per term. Occasional concerts on and off campus. **Prerequisite(s):** Audition and consent of the instructor.

MUS 153 1 hour.
University Choir
 Student performance of choral literature of all musical periods. May be repeated to a maximum of 8 hrs. Occasional concerts off-campus. **Prerequisite(s):** Audition required.

MUS 154 1 hour.
Chamber Choir
 Study/performance of choral literature for 16 to 24 voices. May be repeated to a maximum of 8 hrs. Occasional concerts off-campus. **Prerequisite(s):** Audition required.

MUS 155 1 hour.
Women's Choral Ensemble
 Study/performance of choral literature of all musical periods. May be repeated to a maximum of 8 hrs. Occasional concerts off-campus. **Prerequisite(s):** Basic music-reading skills and an audition required.

MUS 156 1 hour.
Pep Band
 Performs at home basketball and hockey games. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** Consent of instructor. Must enroll concurrently in MUS 151.

MUS 157 1 hour.
String Ensemble
 Introduction to string ensemble literature. Regular performances on campus; occasional field trip concert. Open to orchestral string players and harp. May be repeated to a maximum of 8 hrs. Field trip required at a nominal fee. **Prerequisite(s):** Audition and/or consent of the instructor. **Recommended background:** Three years of private lessons and/or high school orchestra experience.

MUS 159 1 hour.
Jazz Ensemble
 Practical experience in the preparation and public performance of big band and small ensemble jazz. May be repeated to a maximum of 8 hrs. Field trips may be required. **Prerequisite(s):** Audition or consent of the instructor.

MUS 160 1 hour.
Small Jazz Ensemble
 Various instrumental ensembles focusing on performance techniques within the historical development of the American jazz ensemble. Performances at various events across the UIC campus and the greater Chicago community. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** Audition or consent of the instructor. **Recommended background:** Minimum three years private instruction on student's preferred instrument.

MUS 170 2 hrs.
Keyboard Skills I
 Development of basic keyboard skills including sight reading, transposition, improvisation, and ensemble playing. **Prerequisite(s):** Concurrent registration in MUS 101 and 103, or approval of the department.

MUS 171 2 hrs.
Keyboard Skills II
 Continues MUS 170. **Prerequisite(s):** Grade of C or better in MUS 170; Concurrent registration in MUS 102 and MUS 104.

MUS 180 2 hrs.
Private Instrumental Lessons
 Applied music instruction in woodwinds, brass, percussion, piano, guitar, or organ. May be repeated to a maximum of 16 hrs. **Prerequisite(s):** Audition prior to initial registration and approval of the department.

MUS 182 2 hrs.
Private Voice Lessons
 Applied music instruction in voice. May be repeated to a maximum of 16 hrs. **Prerequisite(s):** Approval of the department and admission to the music major and successful completion of an audition. **Recommended background:** Previous music and vocal study.

MUS 190 1 hour.
Class Voice
 Group instruction in singing. May be repeated to a maximum of 8 hrs. **Prerequisite(s):** Consent of the instructor and concurrent registration in MUS 153 or MUS 155. May not be taken concurrently with MUS 180.

MUS 201 3 hrs.
Theory of Music III
 Continues MUS 102. Chromatic harmony of the eighteenth and nineteenth centuries. Study of two- and three-part forms. **Prerequisite(s):** Grade of C or better in MUS 102 and grade of C or better in MUS 104 or the equivalents.

MUS 202 3 hrs.
Theory of Music IV
 Continues MUS 201. Harmony in the late nineteenth century; introduction to twentieth-century practices. **Prerequisite(s):** Grade of C or better in MUS 201 and grade of C or better in MUS 203, or the equivalents.

MUS 203 1 hour.
Ear Training III
 Aural perception and sight singing. **Prerequisite(s):** Grade of C or better in MUS 104 or the equivalent; and concurrent registration in MUS 201.

MUS 204 1 hour.
Ear Training IV
 Advanced aural perception and sight singing. **Prerequisite(s):** Grade of C or better in MUS 203. Must enroll concurrently in MUS 202.

MUS 220 3 hrs.
Jazz Aesthetics
 A technical study of the factors and topics that permeate and surround the study, development, and production of jazz. **Prerequisite(s):** Sophomore standing or above; Grade of B or better in MUS 102 and Grade of B or better in MUS 104 and Grade of B or better in MUS 114. Requires concurrent registration in MUS 150, MUS 159 or MUS 160. **Recommended background:** Jazz ensemble performance, or individual jazz interest.

MUS 221 3 hrs.
Jazz Improvisation II
 Continues the study of the technique and methods of jazz improvisation. **Prerequisite(s):** Grade of B or better in MUS 102 and grade of B or better in MUS 104 and grade of B or better in MUS 171; and grade of C or better in MUS 120; and sophomore standing or above; or approval of the department.

MUS 222 1 hour.
Musical Notation and Copying
 A study of the art of music notation and score preparation using Finale software. **Prerequisite(s):** Grade of C or better in MUS 201 and sophomore standing or above; or consent of the instructor.

MUS 227 3 hrs.
Music Cultures of the World
 Examination of music throughout the world from an ethnomusicological perspective. Emphasis on classical, tribal, and folk musics; music as a cultural phenomenon. *Creative Arts, and World Cultures course.*

MUS 230 3 hrs.
Music History I
 Principal styles and composers from the Middle Ages through the Renaissance. **Prerequisite(s):** Grade of C or better in MUS 102 and grade of C or better in MUS 104 or the equivalents. Music Majors may have only one grade of D among MUS 230, MUS 231, and MUS 232.

MUS 231 3 hrs.
Music History II
 Principal styles and composers from the baroque period through the classical period. **Prerequisite(s):** MUS 230; and a grade of C or better in MUS 202 and MUS 204, or the equivalents. Music Majors may have only one grade of D among MUS 230, MUS 231, and MUS 232.

MUS 232 3 hrs.
Music History III
 Composers and the development of musical styles of the nineteenth and twentieth centuries, with emphasis on innovations of the latter half of the twentieth century. **Prerequisite(s):** Grade of C or better in MUS 202 and grade of C or better in MUS 204 or the equivalents; and MUS 231. Music Majors may have only one grade of D among MUS 230, MUS 231, and MUS 232.

MUS 270 2 hrs.
Keyboard Skills III
 Continues MUS 171. **Prerequisite(s):** Grade of C or better in MUS 171 and concurrent registration in MUS 201 and MUS 203 or approval of the department.

MUS 271 2 hrs.
Keyboard Skills IV
 Advanced keyboard skills, including keyboard harmony, improvisation, accompanying, and score reading. **Prerequisite(s):** Grade of C or better in MUS 270 and concurrent registration in MUS 202 and MUS 204 or approval of the department.

MUS 280 3 hrs.
Advanced Private Instrumental Lessons
 Private instruction at an advanced level in woodwinds, brass, percussion, or piano, culminating in a jury exam. May be repeated to a maximum of 12 hrs. **Prerequisite(s):** Four semesters of MUS 180 and approval of the department. Students must receive a grade of B or better in order to repeat this course.

MUS 282 3 hrs.
Advanced Private Voice Lessons
 Advanced applied music instruction in voice. May be repeated to a maximum of 12 hrs. **Prerequisite(s):** Approval of the department and admission to the music major and successful completion of four terms of MUS 182. Students must receive a grade of B or better in order to repeat this course. **Recommended background:** Performance experience beyond regular UIC studies.

MUS 298 3 hrs.
Selected Topics in Music
 Study in specialized areas of music history, music theory, jazz, and ethnomusicology. May be repeated to a maximum of 12 hrs. **Prerequisite(s):** Consent of the instructor.

MUS 299 1–4 hrs.
Independent Study
 Projects and topics for individual investigation. Course number may be used for student-initiated courses. May be repeated to a maximum of 16 hrs. Students may register in more than one section per term. **Prerequisite(s):** MUS 202 and MUS 204 and approval of the department.

MUS 300 3 hrs.
Counterpoint
 Written exercises and study of contrapuntal techniques in a variety of styles. **Prerequisite(s):** Grade of C or better in MUS 202 and grade of C or better in MUS 204; or approval of the department. Music major may have only one grade of D in 300-level course work.

MUS 301 3 hrs.
Analytic Techniques
 Analysis of representative works in a variety of genres from the seventeenth through the twentieth centuries. **Prerequisite(s):** Grade of C or better in MUS 300. Music majors may have only one grade of D in 300-level course work.

MUS 302 3 hrs.
Composition I
 Class and individual instruction in the basic techniques of twentieth-century composition. Practice in the use of twentieth-century musical materials. **Prerequisite(s):** Grade of C or better in MUS 202 and grade of C or better in MUS 204 or approval of the department. Music majors may have only one grade of D in 300-level course work.

MUS 303 3 hrs.
Composition II
 Continues instruction in the techniques and materials of twentieth-century composition. **Prerequisite(s):** Grade of C or better in MUS 302. Music majors may have only one grade of D in 300-level course work.

MUS 304 3 hrs.
Conducting
 Basic techniques; body position; beat patterns; use of baton; division of beats; starting and stopping; the left hand; dynamics; fermatas; ensemble application; score preparation; memorization. **Prerequisite(s):** Grade of C or better in MUS 202 and grade of C or better in MUS 204 or approval of the department. Music majors may have only one grade of D in 300-level course work.

MUS 306 3 hrs.
Orchestration and Arranging I
 The acoustical properties, musical characteristics, and scoring problems of string, woodwind, and brass instruments. Scoring for string, woodwind, and brass ensembles. **Prerequisite(s):** Grade of C or better MUS 202 and grade of C or better in MUS 204 or approval of the department. Music majors may have only one grade of D in 300-level course work.

MUS 307 3 hrs.
Orchestration and Arranging II
 The acoustical properties, musical characteristics, and scoring problems of percussion, keyboard, and electronic instruments. Scoring for mixed ensembles, band, orchestra, jazz, and commercial groups. **Prerequisite(s):** Grade of C or better in MUS 306. Music majors may have only one grade of D in 300-level course work.

MUS 310 3 hrs.
Jazz Theory and Keyboard I
 Introductory course designed to acquaint students with rhythmic, melodic, harmonic, and structural aspects of jazz. **Prerequisite(s):** Grade of C or better in MUS 202, and Grade of C or better in MUS 204, and Grade of B or better in MUS 271; and junior standing or above; or approval of the department. Majors may have only one D in 300-level courses.

MUS 311 3 hrs.
Jazz Theory and Keyboard II
 Advanced course to continue exploration of rhythmic, melodic, harmonic, and structural aspects of jazz. **Prerequisite(s):** Grade of C or better in MUS 310. Majors may have only one D in 300-level courses.

MUS 312 3 hrs.
Jazz Arranging I
 Concentration on developing compositional and orchestration/arranging skills in various jazz and commercial styles. **Prerequisite(s):** Grade of C or better in MUS 306; and junior standing or above; or approval of the department. Majors may have only one D in 300-level courses.

MUS 313 3 hrs.
Jazz Arranging II
 Advanced course for developing compositional and orchestration/arranging skills in various jazz and commercial styles. **Prerequisite(s):** Grade of C or better in MUS 312; or approval of the department. Majors may have only one D in 300-level courses.

MUS 320 1–3 hrs.
Music Proseminar
 Selected topics for intensive study in specialized areas of music history or music theory. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Senior standing with major in music and consent of the instructor.

MUS 391 0–16 hrs.
Study Abroad in Music
Study abroad within an approved foreign exchange program or department-sponsored program. May be repeated with approval. Approval to repeat course granted by the department.
Prerequisite(s): Approval of the department.

MUS 490 1–4 hrs.
Music Education: Special Topics
An investigation of various topics in music education pertinent to practicing music teachers. May be repeated. **Prerequisite(s):** Senior standing or above.

Native American Studies

NAST 112 3 hrs.
Introduction to Native American Literatures
An introduction to the oral and written literatures of American Indians. **Same as** ENGL 112. *Creative Arts, and U.S. Society course.*

NAST 113 3 hrs.
Native American Studies: Sovereignty
Overview of native and non-native perspectives of American Indian sovereignty in historical context. Primary focus on spiritual, political, ethnic, and legislative aspects of sovereignty. *Past, U.S. Society, and World Cultures course.*

NAST 115 3 hrs.
Introduction to North American Indian History
The history of North American Indians from before contact with Europeans through the late twentieth century. The interactions between Europeans and American Indians in ways that foreground the experiences and perspectives of indigenous peoples. **Same as** HIST 115. *Past, U.S. Society, and World Cultures course.*

NAST 260 3 hrs.
American Indians in Popular Culture: Native Americans in Print, Film and Electronic Media
Considers the history of representations of American Indian people, in print, performance, film and electronic media, and over the course of the 19th and 20th centuries. **Same as** HIST 260. **Prerequisite(s):** Sophomore standing or above; and approval of the department.
Recommended background: Grade of B or better or concurrent registration in HIST 115 or grade of B or better or concurrent registration in NAST 115. *Creative Arts, and U.S. Society course.*

NAST 271 3 hrs.
Native American Art
Survey of the arts of the indigenous peoples of the United States and Canada. **Same as** AH 271. **Prerequisite(s):** 3 hours of art history at the 100-level or consent of the instructor. *World Cultures course.*

NAST 415 3 OR 4 hrs.
American Indian Ethnohistory
Introduction to ethnohistory, an interdisciplinary approach to researching, conceptualizing, and writing American Indian history. The course is organized topically and centers on classic and current monographs and articles. **Same as** HIST 415. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above and consent of the instructor.
Recommended background: Courses in cultural anthropology, American Indian anthropology, American Indian literature.

NAST 471 3 OR 4 hrs.
Topics in Native American Literatures
The history and development of literature by and about American Indians. Content varies. **Same as** ENGL 471. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time. **Prerequisite(s):** Senior standing or above and 6 hours of English, African American studies, or Latin American studies or consent of the instructor.

Natural Sciences

NATS 101 4 hrs.
Physical World
A multidisciplinary course that relates biological and chemical systems to the physical sciences. The epistemology, history, and philosophy of science; exploring the phenomena of sound and light; the physical earth; earth's place in the universe. **Prerequisite(s):** High school algebra and trigonometry. *Natural World—With Lab course.*

NATS 102 4 hrs.
Chemical World
A multidisciplinary course that relates biological and physical systems to chemistry. The sociology of science; chemical composition and change; the chemistry of life; chemistry and society. Credit is not given for NATS 102 if the student has credit for CHEM 100. **Prerequisite(s):** High school algebra and trigonometry. *Natural World—With Lab course.*

NATS 103 4 hrs.
Biological World
A multidisciplinary course that relates physical and chemical systems to biology. Systems and the movement of matter, energy, and information; cells and organisms; unity within diversity of life; genetics; evolution. Credit is not given for NATS 103 if the student has credit for BIOS 100. **Prerequisite(s):** High school algebra and trigonometry. *Natural World—With Lab course.*

NATS 104 1 hour.
Project-Based Seminar in Natural Science
Students select and design a multidisciplinary investigation that results in the presentation and exhibition of the project. **Prerequisite(s):** Student must have passed at least two of the following: NATS 101, NATS 102, NATS 103 or the equivalent and must be concurrently registered in NATS 101 or NATS 102 or NATS 103.

Naval Science

NS 101 2 hrs.
Introduction to Naval Science
Introduction to sea power and the naval service. Includes an overview of officer and enlisted rank and rating structures, training, promotion and military courtesy. **Prerequisite(s):** Consent of the instructor.

NS 200 3 hrs.
Naval Ships Systems
The types, structure and purpose of naval ships. Includes nuclear, gas turbine, and steam propulsion systems, auxiliary systems, interior communications and damage control. **Prerequisite(s):** Consent of the instructor.

NS 201 3 hrs.
Naval Weapons Systems
Introduction to the theory and principles of naval weapons systems. Covers type of weapons, capabilities and limitations and theory of operation. **Prerequisite(s):** Consent of the instructor.

NS 202 3 hrs.
Sea Power and Maritime Affairs
Concept of sea power and its effect on history, naval strategies of past and present, the role of U.S. sea power from the Revolutionary War to the present. **Prerequisite(s):** Consent of the instructor.

NS 294 1–3 hrs.
Topics in Naval Science
Study of topics in naval science. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

NS 301 3 hrs.
Navigation
Ship navigation. Covers areas of piloting, celestial and electronic means of shipboard navigation. **Prerequisite(s):** Consent of the instructor.

NS 302 3 hrs.
Naval Operations
Ship operations and movement. Covers maneuvering, seamanship, communications, and command and control. **Prerequisite(s):** Consent of the instructor.

NS 310 3 hrs.
Evolution of Warfare
Survey of all military history thereby providing a very basic understanding of the art and concepts of warfare from the beginning of recorded time to the present. **Prerequisite(s):** Consent of the instructor.

NS 320 3 hrs.
Amphibious Warfare
Historical survey of the evolution of amphibious warfare in the twentieth century. **Prerequisite(s):** Consent of the instructor.

NS 351 3 hrs.
Naval Leadership and Ethics
Responsibilities of the junior naval officer and division officer. Professional responsibilities that the junior officer will have after commissioning will be covered. **Prerequisite(s):** Consent of the instructor.

NS 360 0 hrs.
Leadership Seminar
Application of the study of organizational behavior and management to naval science. Case studies. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Concurrent registration in MGMT 340 and approval of the department.

NS 394 1–3 hrs.
Advanced Topics in Naval Science
Study of advanced topics in naval science. May be repeated if topics vary. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

NS 399 1–3 hrs.
Independent Study in Naval Science
Independent study of an area within naval science under the direction of a faculty member. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor and approval of the department.

Neuroscience

NEUS 483 4 hrs.
Neuroanatomy
Organization of the nervous system, with an emphasis on mammals. **Same as** BIOS 483 and PSCH 483. Animals used in instruction. **Prerequisite(s):** BIOS 272 or BIOS 286 or BIOS 325 or PSCH 262; or consent of the instructor.

Nursing Sciences

NUSC 202 3 hrs.
Concepts and Processes of Professional Nursing
 Introduction to the history and framework of nursing practice. Emphasis on basic curricular concepts and processes of professional nursing. **Prerequisite(s):** Junior standing or above; or consent of the instructor.

NUSC 210 3 hrs.
Health Assessment
 Introduction to assessment of physical and psychosocial health across the life span. Includes physical assessment techniques, interviewing skills and introduction to medical terminology and health risk assessment. **Prerequisite(s):** Credit or concurrent registration in NUSC 202 or credit or concurrent registration in NUSC 242; and junior standing or above; or consent of the instructor.

NUSC 215 4 hrs.
Pathophysiology and Applied Pharmacology I
 Presents clinical pathophysiological mechanisms across the life span integrating pharmacological principles and therapies required for nursing practice. Provides learning strategies for this content. **Prerequisite(s):** CHEM 130 and KN 254 or the equivalent; or consent of the instructor.

NUSC 217 3 hrs.
Pathophysiology and Applied Pharmacology II
 Presents clinical pathophysiological mechanisms across the life span integrating pharmacological principles and therapies required for nursing practice. Provides learning strategies for this content. **Prerequisite(s):** NUSC 215; or consent of the instructor.

NUSC 225 0–6 hrs.
Introduction to Clinical Concepts and Processes
 Applies nursing process, communication and teaching/learning to individuals. Includes mobility, comfort, safety, infection, protection, fatigue, sleep, oxygenation, and elimination. Clinical application in various settings. Students in the traditional BSN program are required to register for 6 credit hours; students in the RN to BSN program are required to register for 5 credit hrs. **Prerequisite(s):** Credit or concurrent registration in NUSC 210 and credit or concurrent registration in NUSC 215; or consent of the instructor.

NUSC 242 4 hrs.
Concepts and Processes for Contemporary Nursing Practice
 Introduces RN/BSN student to contemporary concepts for professional nursing practice in healthcare systems with emphasis on the nursing paradigm, health promotion, and continuity of care. **Prerequisite(s):** Credit or concurrent registration in NUSC 210; or consent of the instructor.

NUSC 250 3 hrs.
Human Development Across the Life Span
 Survey of biological, psychological and social influences on human development from conception to death. Emphasis is on current research and its application to societal issues.

NUSC 310 2 hrs.
Exploring Complementary/Alternative Practices
 Explores philosophical, historical, cultural and clinical aspects of complementary/alternative practices. Providing wholistic nursing care by incorporating complementary/alternative practices will be emphasized. **Prerequisite(s):** NUSC 217 and NUSC 225; or consent of the instructor.

NUSC 312 2 hrs.
Ethical-Legal Issues in Nursing
 Analysis of ethical-legal issues in nursing practice across the life span. Examines legal concerns and ethical decision making for nurses in diverse roles and practice settings.

NUSC 313 2 hrs.
Nursing Perspectives on Health Policy and Politics
 Health policy issues are analyzed from political, socioeconomic, and ethical perspectives and their relation to policy process and healthcare delivery.

NUSC 315 2 hrs.
Fluid and Electrolyte Alterations
 Exploration of fluid and electrolyte alterations across the life span. Comprehensive analysis of fluid and electrolyte balance regulatory processes and nursing care in clients with a variety of conditions. **Prerequisite(s):** NUSC 225 and NUSC 217; or consent of the instructor.

NUSC 316 2–3 hrs.
Nursing Informatics
 Exploration of information system concepts in healthcare delivery and nursing practice. Emphasis on application of systems concepts in addressing healthcare delivery issues. **Prerequisite(s):** NUSC 225 or equivalent; or consent of the instructor.

NUSC 317 2 hrs.
Introduction to Critical Care Nursing
 An introduction to critical care nursing, focusing primarily on cardiac and respiratory conditions, hemodynamic monitoring, EKG interpretation, and mechanical ventilation. Observational clinical experience in intensive care settings. **Prerequisite(s):** NUSC 335 or consent of the instructor.

NUSC 320 2 hrs.
Death and Dying
 Focuses on biopsychosocial and spiritual issues that arise for the patient, significant others, and the nurse clinician during the process of dying and death itself.

NUSC 322 4 hrs.
Introduction to Nursing Research and Statistics for Evidence-Based Practice
 Basic concepts of research emphasizing relationship between research and nursing practice. Includes basic statistical measures, hypothesis testing, and interpretation of nursing research for application and practice. **Prerequisite(s):** NUSC 217 and NUSC 225; or consent of the instructor.

NUSC 335 6 hrs.
Clinical Concepts and Processes in Adult Health
 Nursing concepts/processes concerning common adult health problems: oxygenation, information processing, regulation, immune response, elimination, metabolism, mobility, substance abuse, and perioperative. Clinical application in various settings. **Prerequisite(s):** NUSC 225 and credit or concurrent registration in NUSC 217; or consent of the instructor.

NUSC 345 5 hrs.
Clinical Concepts and Processes in Women's and Family Health
 Nursing care of women and families across the life span. Emphasizes health promotion from a community-based perspective. Socioeconomic, cultural, political, legal, and ethical influences on health behavior and outcomes are explored. **Prerequisite(s):** NUSC 225 and credit or concurrent registration in NUSC 217; or consent of the instructor.

NUSC 350 2 hrs.
History of Nursing
 Trends in nursing education and practice in terms of historical development of nursing. Focus on social, cultural, religious, political and education forces influencing the evolution of nursing. **Prerequisite(s):** NUSC 202; or consent of the instructor.

NUSC 355 5 hrs.
Clinical Concepts and Processes in Children's and Family Health
 Nursing care of the well, acutely and chronically ill infant and child using a family-focused approach with clinical application in various settings. **Prerequisite(s):** NUSC 225 and credit or concurrent registration in NUSC 217; or consent of the instructor.

NUSC 365 5 hrs.
Clinical Concepts and Processes in Mental Health
 Application and integration of biopsychosocial and cultural concepts and principles in the nursing process for individuals and groups in psychiatric settings. Clinical application in various settings. **Prerequisite(s):** NUSC 225 and credit or concurrent registration in NUSC 217; or consent of the instructor.

NUSC 375 3 hrs.
Concepts and Processes in Older Adult Health
 Application of concepts of gerontology, aging theories and care of the older adult, including health promotion and maintenance and rehabilitation. **Prerequisite(s):** NUSC 225; or consent of the instructor.

NUSC 385 5 hrs.
Clinical Concepts and Processes in Population-Focused Nursing
 Synthesis of theory, research, and practice related to population-focused nursing care, with emphasis on health promotion of aggregates. Clinical application with aggregates across the life span. **Prerequisite(s):** NUSC 345 and NUSC 355; or consent of the instructor.

NUSC 390 6 hrs.
Nursing Leadership and Management in Healthcare
 Appraisal and synthesis of theory, research and practice in the application of principles of nursing leadership and management. Clinical application will focus on the management of groups of clients and systems. **Prerequisite(s):** NUSC 335 and NUSC 345 and NUSC 355 and credit or concurrent registration in NUSC 365 and credit or concurrent registration in NUSC 385; or consent of the instructor.

NUSC 393 3 hrs.
Readings in Evidence-Based Practice
 Application of basic research concepts to the building of evidence-based practice in nursing. Emphasis will be on the critique of published research and utilization of research in clinical practice. **Prerequisite(s):** NUSC 322; and senior standing or above; or consent of the instructor.

NUSC 394 1–4 hrs.
Special Topics: Undergraduate
 Discusses selected topics of current interest. Offered according to sufficient student demand and instructor availability. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

NUSC 397 3 hrs.
Issues in Nursing Practice
 Analysis of social, economic, and policy issues affecting the practice of professional nursing with emphasis on strategies for advancing the profession. **Prerequisite(s):** Credit or concurrent registration in NUSC 390; or consent of the instructor.

NUSC 399 1–4 hrs.
Independent Study: Undergraduate
 Individually arranged study of a topic selected by the student under the guidance of an individual instructor. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

NUSC 438 3 hrs.**Infant Feeding: Historical, Societal, and Health Policy Issues**

Examines infant feeding practices from historical, contemporary, societal, and political dimensions. The importance of infant feeding in developing countries as well as legislation regarding infant feeding is also examined.

Prerequisite(s): Senior standing; or consent of the instructor.

NUSC 440 2 hrs.**Wholistic Health: Use of Self**

Comprehensive mind, body and spiritual healthcare. Spiritual assessment of self, individuals and families. Self as a therapeutic agent/health provider for wholistic healthcare. **Prerequisite(s):** Senior standing; or consent of the instructor.

NUSC 441 2 hrs.**Wholistic Health: Community Focus**

Community and congregational assessment. Health beliefs and practices of faith communities and their impact on healthcare services, communities, and systems to foster planned change. **Prerequisite(s):** Senior standing; or consent of the instructor.

NUSC 450 3 hrs.**Women and Mental Health Nursing**

Theories of female psychology; women's daily lives and mental health; gender differences in mental illness; strategies for improving women's mental health. **Same as** GWS 450 and NUWH 450. **Prerequisite(s):** Consent of the instructor. Students enrolled in the College of Liberal Arts and Sciences must have credit in PSCH 100 and either PSCH 270 or PSCH 315 or GWS 315.

NUSC 455 3 hrs.**Women's Health: A Primary Healthcare Approach**

Health promotion and disease prevention in women's health. Includes community experience with community women. Primary healthcare approaches examined. **Same as** CHSC 456 and NUWH 455. **Prerequisite(s):** Consent of the instructor.

NUSC 460 1-5 hrs.**Individualized Internship**

Intensive internship experience will consist of a practicum that will develop skills, competencies, and knowledge in a focused healthcare delivery setting. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Consent of the instructor.

NUSC 494 1-3 hrs.**Special Topics**

Discusses selected topics of current interest. Offered according to sufficient student demand and instructor availability. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

Pharmacy**PHAR 321 3 hrs.****Drug Delivery Systems I**

The roles of dosage forms and drug delivery systems in health-care. Pharmaceutical calculations included. **Prerequisite(s):** Acceptance into the Doctor of Pharmacy program.

PHAR 322 3 hrs.**Drug Delivery Systems II**

Continuation of PHAR 321. The roles of additional dosage forms and drug delivery systems in healthcare. **Prerequisite(s):** PHAR 321.

PHAR 323 3 hrs.**Drug Delivery Systems III**

The role of nonsterile and sterile dosage forms and drug delivery systems in healthcare. Pharmaceutical calculations for parenteral dosage forms included. **Prerequisite(s):** PHAR 322.

PHAR 324 3 hrs.**Contemporary Pharmacy Practice**

Students obtain experience in compounding dosage forms, dispensing medications, counseling patients, problem solving and administration of various dosage forms. **Prerequisite(s):** PHAR 323 and credit or concurrent registration in PHAR 355.

PHAR 331 5 hrs.**Fundamentals of Drug Action I**

Introduction to basic concepts of drug chemistry and biological targets. Chemistry of simple bimolecules, redox chemistry, stereochemistry. Biology of nucleic acids, proteins, and membranes. **Prerequisite(s):** One year of organic chemistry with laboratory and one year of general biology with laboratory.

PHAR 332 4 hrs.**Fundamentals of Drug Action II**

Continuation of PHAR 331. Includes drug-receptor interactions, drug design, mechanistic enzymology, and cellular chemistry and immunology. **Prerequisite(s):** PHAR 331.

PHAR 333 4 hrs.**Fundamentals of Drug Action III**

Continuation of PHAR 332. Topics of microbiology and virology, drug metabolism and chemical toxicology, basic clinical chemistry with laboratories. **Prerequisite(s):** PHAR 332.

PHAR 342 2 hrs.**Experiential I—IPPE**

Introduction to contemporary pharmacy practice including the Ashville Project, Cultural Competence, and controversial issues/topics in pharmacy practice. **Prerequisite(s):** PHAR 441 and a current pharmacy technician license in good standing.

PHAR 343 2 hrs.**Pharmacy Systems Management**

Personnel management and human resources issues in

professional pharmacy practice. Introduction to pharmacy operations management, the process of change management, and management of innovative changes in pharmacy practice. **Prerequisite(s):** Second year standing in the Doctor of Pharmacy program.

PHAR 344 2 hrs.**Social and Behavioral Pharmacy**

Application of behavioral science principles and theories in understanding patient and health professional behavior, and application of social issues involved in pharmacy practice. **Prerequisite(s):** Acceptance into the Doctor of Pharmacy program.

PHAR 346 2 hrs.**Pharmacy Services and Reimbursement**

Techniques in marketing of pharmaceutical care services and developing compensating mechanisms for pharmacy services, discussion of managed care principles, and healthcare financing issues. **Prerequisite(s):** PHAR 341.

PHAR 352 2 hrs.**Experiential II—IPPE**

Introduction to concepts and skills used by pharmacists to provide direct patient care. Development of skills required to gather information, conduct physical assessment, and document information relevant to therapeutic interventions. **Prerequisite(s):** PHAR 342 and PHYB 301 and PHYB 302 and a current pharmacy technician license in good standing.

PHAR 353 2 hrs.**Experiential III—IPPE**

Students are given information and participate in exercises that will enable them to develop the skills pharmacists need to gather, evaluate, document, and communicate information relevant to therapeutic interventions and overall patient care. **Prerequisite(s):** PHAR 352 and Third-year professional standing in the Doctor of Pharmacy Program.

PHAR 354 2 hrs.**Experiential IV—IPPE**

Students will participate in exercises enabling them to develop the skills a pharmacist needs; to gather, evaluate, document, and communicate information relevant to therapeutic interventions and overall patient care in special patient populations. **Prerequisite(s):** PHAR 353 and Third-year professional standing in the Doctor of Pharmacy Program.

PHAR 356 2 hrs.

Principles of Pharmacoeconomics and Drug Treatment Outcomes Basic and applied concepts of economic efficiency, pharmacoeconomics, decision models, and drug therapy outcome measures are presented with an emphasis

on the practical application of such principles. **Prerequisite(s):** Acceptance into the Doctor of Pharmacy program.

PHAR 357 4 hrs.**Experiential V—IPPE**

The primary setting for this course is a direct patient care setting where the students will apply their successfully completed didactic and previous early experiential course work to the patient care setting. **Prerequisite(s):** PHAR 342 and PHAR 344 and PHAR 352 and PHAR 353 and PHAR 354 and PHAR 365 and PHAR 401 and PHAR 402 and PHAR 403 and PHAR 404 and PHAR 405 and PHAR 406 and PHAR 407 and PHAR 408 and PHAR 455; or consent of the instructor and Third-year professional standing in the Doctor of Pharmacy program.

PHAR 365 3 hrs.**Nonprescription Pharmaceuticals and Herbal Medicinals**

A pharmacotherapeutics course discussing the use of nonprescription drugs, supplies, and herbal medicinals with emphasis on the pharmacist's role as communicator, educator, and advisor to patients. **Prerequisite(s):** Third-year professional standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 371 4 hrs.**Ambulatory Care—APPE**

Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in ambulatory care patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PHAR 372 4 hrs.**Community Practice—APPE**

Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in community practice. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PHAR 373 4 hrs.**Hospital Practice—APPE**

Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in hospital practice. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PHAR 374 4 hrs.
Medicine—APPE
Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in general medicine patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PHAR 400 3 hrs.
Pharmacokinetics
Concepts and principles in pharmacokinetics including theories and basis for drug receptor actions, drug absorption, distribution, excretion, and biotransformation. **Prerequisite(s):** Credit or concurrent registration in PHAR 322 and credit or concurrent registration in PHAR 332 and credit or concurrent registration in PHYB 302.

PHAR 401 3 hrs.
Principles of Drug Action and Therapeutics I
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the drug actions related to the disease states associated with the endocrine, renal, optical, and auditory systems. **Prerequisite(s):** PHYB 302 and PHAR 342 and PHAR 400 and second year standing in the Doctor of Pharmacy program.

PHAR 402 4 hrs.
Principles of Drug Action and Therapeutics II
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of the autonomic nervous system, cardiology, lipid disorders, and hypertension. **Prerequisite(s):** PHYB 302 and PHAR 342 and PHAR 400 and second year standing in the Doctor of Pharmacy program.

PHAR 403 3 hrs.
Principles of Drug Action and Therapeutics III
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the area of infectious disease. **Prerequisite(s):** PHAR 352 and PHAR 401 and PHAR 402 and second year standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 404 3 hrs.
Principles of Drug Action and Therapeutics IV
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of women's and men's health, respiratory disorders, diabetes, and pediatrics. **Prerequisite(s):** PHAR 352 and PHAR 401 and PHAR 402 and second year standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 405 3 hrs.
Principles of Drug Action and Therapeutics V
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of drug abuse, cerebrovascular diseases, Parkinson's, and epilepsy. **Prerequisite(s):** PHAR 353 and PHAR 401 and PHAR 402 and Third-year standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 406 3 hrs.
Principles of Drug Action and Therapeutics VI
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of pain management and psychiatric disorders. **Prerequisite(s):** PHAR 403 and PHAR 404 and Third-year standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 407 4 hrs.
Principles of Drug Action and Therapeutics VII
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of transplants, gastrointestinal disorders, body fluids, nutrition, and the impact of drug therapies on a geriatric person. **Prerequisite(s):** PHAR 353 and PHAR 401 and PHAR 402 and Third-year standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 408 3 hrs.
Principles of Drug Action and Therapeutics VIII
Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of bones and joints, hematological disorders, oncology. **Prerequisite(s):** PHAR 353 and PHAR 401 and PHAR 402 and Third-year standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 441 3 hrs.
Roles, Environments, and Communications
Selected factors that influence pharmacist's practice, societal, and professional expectations, and the importance of effective communications with a variety of patients and professional audiences. **Prerequisite(s):** Acceptance into the Doctor of Pharmacy program.

PHAR 445 3 hrs.
Pharmacy Law
Federal and state statutes and regulations pertaining to the licensing of pharmacists, the practice of pharmacy, and distribution of drugs. Case law and the ethical dilemmas relating to the pharmacists' standard of care are included. **Prerequisite(s):** PHAR 342.

PHAR 455 4 hrs.
Drug Information and Statistics
Overview of drug information resources and statistics used in healthcare research, including systematic approaches for critical evaluation of the literature and effective communication of information. **Prerequisite(s):** PHAR 341.

Pharmacy Administration

PMAD 380 1–3 hrs.
Undergraduate Research in Pharmacy Administration
Investigation, under the direction of one or more faculty members, of a problem of limited scope. May require literature research related to the research project. May be repeated. A maximum of 6 hours of credit is allowed per department. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Minimum cumulative grade point average of 2.50 and consent of the instructor, department head, and associate dean for student affairs.

PMAD 381 1 hour.
Professional Development Seminar I
Weekly seminar series for second professional year pharmacy students. Discusses educational issues related to the second professional year. Students create/update Curriculum Vitae; explore various pharmacy career opportunities. Credit is not given for PMAD 381 if the student has credit for BPS 381 or PMMP 381 or PMPR 371. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMAD 382 1 hour.
Professional Development Seminar II
Weekly seminar series for second year pharmacy students. Discusses educational issues related to the second professional year. Students create/update Curriculum Vitae; explore various pharmacy career opportunities. Credit is not given for PMAD 382 if the student has credit for BPS 382 or PMMP 382. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMAD 383 1 hour.
Professional Development Seminar III
Weekly seminar series for third professional year pharmacy students. Discusses relevant educational and professional issues. Update CV/resume and portfolio. Explore pharmacy career opportunities with invited guests. Credit is not given for PMAD 383 if the student has credit for BPS 383 or PMMP 383. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMAD 384 1 hour.
Professional Development Seminar IV
Weekly seminar series for Third-year pharmacy students. Discusses with advisees relevant educational and professional issues. Update CV/Resume and Portfolio. Explore pharmacy career opportunities with invited guests. Credit is not given for PMAD 384 if the student has credit for BPS 384 or PMMP 384. **Prerequisite(s):** Student must be listed as an advisee of the instructor.

PMAD 385 1–3 hrs.
Special Topics in Pharmacy Administration
A selected topic of current interest in pharmacy administration, or an experimental course, offered by faculty or a visiting lecturer. **Prerequisite(s):** Good standing and consent of the instructor.

PMAD 390 1–2 hrs.
Special Projects in Pharmacy Administration
Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. May be repeated. A maximum of 4 hours of 390 credit is allowed in all departments. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Consent of the instructor, department head, and associate dean for student affairs.

PMAD 421 3 hrs.
Pharmaceutical Marketing
Introduction to the field of marketing with specific emphasis on pharmaceuticals and the marketing of pharmacy services.

PMAD 470 3 hrs.
Managed Care Pharmacy
Professional development in managed care pharmacy to learn history, administrative and policy aspects, network with operational managers and leaders in field, visit managed care sites and observe activities of managed care pharmacists. **Prerequisite(s):** Third-year standing in the Doctor of Pharmacy program or second year standing in the Doctor of Pharmacy program with consent of the instructor, or graduate standing in pharmacy.

PMAD 482 3 hrs.
Professional Practice Management
Managerial functions of the pharmacist in all practice environments with emphasis on the planning, organizing, staffing, directing and controlling of resources.

PMAD 484 3 hrs.
Systematic Reviews and Meta-Analysis

The course will discuss the concepts, process, and statistical methods required to perform a systematic review or meta-analysis of a large body of empirical findings. Extensive computer use required. **Prerequisite(s):** EPID 400 or BSTT 400 and PHAR 355 or PMAD 502 or graduate or professional standing or consent of the instructor.

PMAD 494 1–3 hrs.
Special Topics in Pharmacy Administration

Topics will vary, including the ongoing analysis of contemporary issues associated with delivery, financing, and management of pharmaceutical products and professional services. May be repeated to a maximum of 6 hrs.

Pharmacy Practice**PMPR 325 2 hrs.**
Drugs and Society

Presents factual basis of drug use and abuse. Provides physiological and sociopsychological underpinnings of drug abuse. Evaluates social policies and regulatory issues surrounding drug abuse. **Same as** BPS 325. Extensive computer use required.

Prerequisite(s): Open only to first-year students in the Doctor of Pharmacy program.

PMPR 326 1 hour.
Topics for Professional Student Enrichment

Students will meet at the beginning of the semester with the course instructor to review and select topics from a schedule of topics. Topics chosen will reflect 15 hours of class time as well as written journals. **Prerequisite(s):** PHAR 341.

PMPR 330 1 hour.
Journal Club and Advanced Literature Analysis

A course designed to familiarize students with more advanced study design and statistical concepts commonly used in the medical literature. **Prerequisite(s):** P-3 standing and completion of PHAR 455.

PMPR 345 3 hrs.
Clinical Toxicology

Basic and applied concepts in clinical toxicology including general approach, poisoning prevention measures, retrieval and evaluation of toxicology literature, substance abuse issues, and practice site specific toxicology concerns. **Prerequisite(s):** Enrollment in the Doctor of Pharmacy program.

PMPR 355 1 hour.
Seminar in Pharmacy Research

A weekly 1-hour research seminar provided by the College of Pharmacy faculty who are currently conducting clinical and/or basic science research.

Prerequisite(s): Enrollment in the Doctor of Pharmacy Program.

PMPR 356 2 hrs.
The Role of the Pharmacist in Tobacco Cessation

An in-depth knowledge base in smoking cessation, skills for counseling, and detailed “how to” information on specific counseling techniques.

PMPR 357 1 hour.
Natural and Recombinant Plasma-Derived Therapeutics

Introduction to plasma-derived therapeutics including albumin, immune globulins, and factor products. Production, viral safety, and clinical applications will be covered. **Prerequisite(s):** P3 class standing.

PMPR 358 1 hour.
Pharmacotherapeutic Issues in Women's Health

Team taught case-based pharmacotherapeutic lecture course related to women's health. **Prerequisite(s):** P3 class standing or consent of the instructor.

PMPR 359 2 hrs.
Topics and Issues in Clinical Post-Graduate Training Programs

Increases PharmD students' knowledge and professionalization about post-graduate training. Students will “shadow” residents or fellows during non-class times, overnight and weekends while the resident or fellow is on call. Fieldwork required. **Prerequisite(s):** Second or Third-year standing in the Doctor of Pharmacy program with good academic standing.

PMPR 360 2 hrs.
Clinical Aspects of Drug Interactions, Metabolism, and Pharmacogenetics

Clinical perspective in interpreting drug interaction/metabolism and pharmacogenetic data from the literature; application of the information in practice. Hands-on opportunities to manage drug interactions using real-life cases. **Prerequisite(s):** Third-year standing in the Doctor of Pharmacy program or above; or consent of the instructor.

PMPR 361 2 hrs.
Introduction to Public Health: Concepts and Applications in Pharmacy

Introduces pharmacy students to major concepts in public health. Emphasizes an interdisciplinary team that focuses on the well-being of the population.

PMPR 363 2 hrs.
Primary Care Clinical Nutrition

Students will evaluate the clinical importance of nutritional intervention, and its practical applications for chronic disease prevention and management such as cancer, hypertension, hyperlipidemia, diabetes, and obesity.

PMPR 370 1 hour.
Pharmacy Grand Rounds

Case studies in drug therapy; review of relevant areas of drug treatment and research. Role of the pharmacist emphasized.

Weekly presentations. Mandatory attendance. Satisfactory/Unsatisfactory grading only. May not be repeated for credit. **Prerequisite(s):** Enrollment in the Doctor of Pharmacy program.

PMPR 371 1 hour.
Professional Development Seminar I

A weekly seminar series designed to draw select second year professional students together to discuss educational issues related to the second professional year. Credit is not given for PMPR 371 if the student has credit in BPS 381 or PMAD 381 or PMMP 381. **Prerequisite(s):** Completion of the first year of the Doctor of Pharmacy program; student must be listed as an advisee of the instructor.

PMPR 377 1 hour.
Professional Development for Pharmacists

Designed to develop the skills necessary for the professional development of future pharmacists: resume writing, interview preparation, written correspondence, and verbal presentation skills. **Prerequisite(s):** Enrollment in the Doctor of Pharmacy program.

PMPR 378 2 hrs.
Pediatric Therapeutics

Drug therapy of common pediatric disease states, emphasizing special pediatric considerations in the areas of pediatric infectious diseases, neurology, and psychiatry. **Prerequisite(s):** Completion of the second year of the Doctor of Pharmacy Program.

PMPR 380 1–3 hrs.
Undergraduate Research in Pharmacy Practice

Investigation, under the direction of one or more faculty members, of a problem of limited scope. May require literature research related to the research project. May be repeated. A maximum of 6 hours of credit is allowed per department. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Minimum cumulative grade point average of 2.50 and consent of the instructor, department head, and associate dean for student affairs.

PMPR 381 2 hrs.
Chronic Kidney Disease (CKD)—Interventions and Treatment

Identification and treatment of patients with chronic kidney disease utilizing a multifactorial approach to attain goals set by Kidney Disease Outcome Quality Initiatives (KDOQI) Guidelines, ADA Guidelines, JNCVII Guidelines and NCEPIII Guidelines. **Prerequisite(s):** PHAR 401.

PMPR 382 2 hrs.
Ethical Considerations in the Practice of Pharmacy

Students will review ethical principles, identify ethical dilemmas, analyze case studies, and engage in role playing. Individual and group written/oral presentations will be required. **Prerequisite(s):** PHAR 404.

PMPR 383 2 hrs.
Managed Care Pharmacy

Covers fundamental concepts in managed care pharmacy and provides a basic understanding of how managed care pharmacy impacts the healthcare system.

PMPR 384 4 hrs.
Advanced Ambulatory Care—APPE

Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states of patients and their treatment not covered in the core ambulatory care clerkship. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMPR 385 1–4 hrs.
Special Topics of Current Interest in Pharmacy Practice

Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for two offerings only. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Good academic standing and consent of the instructor.

PMPR 386 4 hrs.
Administrative—APPE

Clinical pharmacy experience in the management of hospital pharmacy department including purchasing, personnel management, drug utilization review, committees and accreditation approval process. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMPR 387 4 hrs.
Advanced Medicine—APPE

Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in general medicine patients not covered in the core medicine clerkship. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 388 4 hrs.
Advanced Specialty—APPE
 Clinical pharmacy experience in various specialty areas of practice, including pharmaceutical industry, government, associations, or other healthcare specialties. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 389 4 hrs.
Critical Care—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in critical care patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 390 1–2 hrs.
Special Projects in Pharmacy Practice
 Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. May be repeated. A maximum of 4 hours of 390 credit is allowed in all departments. A total of not more than 8 hours of 380 and 390 numbered courses in the college may be applied toward the 12 hours of PharmD professional electives. **Prerequisite(s):** Consent of the instructor, department head, and associate dean for student affairs.

PMMPR 391 4 hrs.
Drug Information—APPE
 Clinical pharmacy experience in a drug information center providing written and verbal communication of drug information to healthcare professionals, patients, and the general public. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 392 4 hrs.
Geriatric—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in geriatric patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 393 4 hrs.
Kinetics—APPE
 Clinical pharmacy experience in patient interviewing, pharmacokinetic monitoring, and drug therapy. Emphasis will be placed on disease states and the pharmacokinetic monitoring of patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 394 4 hrs.
Nutrition—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and nutrition therapy. Emphasis will be placed on disease states and their treatment requiring nutrition therapy. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 395 4 hrs.
Pediatric—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in pediatric patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 396 4 hrs.
Psychiatry—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in psychiatric patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 397 4 hrs.
Surgery—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring and drug therapy. Emphasis will be placed on disease states and their treatment in surgical patients. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 398 4 hrs.
Advanced Community Practice—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states of patients and their treatment in community practice not covered in the core community practice clerkship. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 399 4 hrs.
Home Health—APPE
 Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in home healthcare. **Prerequisite(s):** Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.

PMMPR 430 2 hrs.
Critical Care I
 Advanced pharmacotherapeutics course that will concentrate on the medical management and the pharmacotherapist's role in the management of the critically ill patient. **Prerequisite(s):** PHAR 402 and PHAR 403 and PHAR 404 and PHAR 405 and PHAR 406; and completion of the second year of the program. Must enroll concurrently in PHAR 407 and PHAR 408.

PMMPR 440 2 hrs.
Applied Pharmacokinetics
 An elective course demonstrating practical application of pharmacokinetic principles. Previously listed as PMMPR 340. Scientific calculator required. **Prerequisite(s):** PHAR 401, PHAR 402, PHAR 403, PHAR 404, PHAR 405, and PHAR 406 or consent of the instructor.

Philosophy

PHIL 100 3 hrs.
Introduction to Philosophy
 A survey of traditional problems concerning the existence and nature of God, freedom, justification, morality, etc. Readings from historical or contemporary philosophers. *Individual and Society course.*

PHIL 102 3 hrs.
Introductory Logic
 Sentential logic: representation of English using truth-functional connectives, decision methods, natural deduction techniques. Introduction to predicate logic: representation of English using quantifiers. Decision methods for monadic predicate logic.

PHIL 103 3 hrs.
Introduction to Ethics
 Surveys attempt to answer central questions of ethics: What acts are right? What things are good? How do we know this? *Individual and Society course.*

PHIL 104 3 hrs.
Introduction to Political Philosophy
 An introductory survey of topics in political philosophy that bear on U.S. society. Readings will usually be drawn from both classical and contemporary sources. *Individual and Society, and U.S. Society course.*

PHIL 105 3 hrs.
Science and Philosophy
 An exploration of central philosophical (and/or religious) issues as they arise in the sciences. Readings include both scientific (e.g. physics or biology) and philosophical works, and may be drawn from various periods. *Natural World—No Lab course.*

PHIL 107 3 hrs.
Understanding Art
 Introduction to the fundamental problems in understanding art; the historical background; the concept of the aesthetic; theories of art; intentionalistic criticism, metaphor, symbolism, expression; theories of evaluation.

PHIL 110 3 hrs.
Philosophy of Love and Sex
 A philosophical inquiry into traditional and contemporary views about love and sex. *Individual and Society course.*

PHIL 112 3 hrs.
Morality and the Law
 What must the law do if it is to protect our rights (such as free speech, privacy, equal treatment)? Why believe we have rights? *Individual and Society course.*

PHIL 115 3 hrs.
Death
 Philosophical examination of our attitudes towards death. Our attitudes towards mortality and immortality; definitions of death; treating others as persons; our attitudes towards life, quality of life issues, suicide, rights of the dying. *Individual and Society course.*

PHIL 116 3 hrs.
Medical Ethics
 Moral issues as they arise in medical contexts, including such topics as abortion, euthanasia, paternalism, allocation of medical resources, and psychiatric issues.

PHIL 120 3 hrs.
Introduction to Ancient Philosophy
 Introduction to issues and methods of philosophy through engagement with classic Greek and Roman texts (read in translation). *Same as CL 120. Individual and Society, and Past course.*

PHIL 122 3 hrs.
Philosophy of Consciousness
 A philosophical investigation into the nature and importance of consciousness as discussed in a variety of sources in philosophy, literature, and psychology.

PHIL 201 3 hrs.
Theory of Knowledge
 Basic issues concerning knowledge of the external world, other minds, scientific laws, and necessary truths. **Prerequisite(s):** One course in philosophy.

PHIL 202 3 hrs.
Philosophy of Psychology
 Theories and methods of scientific psychology: modes of explaining the structure of theories, the nature of mental states; implications of commonsense conceptions of the mind. **Prerequisite(s):** One course in philosophy; or junior or senior standing in the physical, biological, or social sciences; or consent of the instructor.

PHIL 203 3 hrs.
Metaphysics
 Philosophical issues concerning free will, causation, action, mind and body, identity over time, God, universals and particulars. Emphasis varies from term to term. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 204 3 hrs.
Introduction to the Philosophy of Science
 The nature of scientific observation, explanation, and theories; confirmation of laws and theories; the relation between the physical and social sciences. **Prerequisite(s):** One course in philosophy; or junior or senior standing in the physical, biological, or social sciences; or consent of the instructor.

PHIL 210 3 hrs.
Symbolic Logic
 Representation of English sentences using quantifiers and identity; quantificational natural deduction; interpretations. Optional topics include naive set theory; axiomatic systems; theory of descriptions; metatheory. **Prerequisite(s):** PHIL 102. **Recommended background:** Grade of B or better in PHIL 102.

PHIL 211 3 hrs.
Inductive Logic and Decision Making
 How to gamble and make other decisions rationally. The role of probability, decision rules, and statistics in real-life contexts. **Prerequisite(s):** PHIL 102 or PHIL 210.

PHIL 220 3 hrs.
Ancient Philosophy I: Plato and His Predecessors
 Introduction to Plato and his predecessors in the ancient period. **Same as** CL 220. It is recommended that PHIL 220/CL 220 and PHIL 221/CL 221 be taken as a sequence in successive terms. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 221 3 hrs.
Ancient Philosophy II: Aristotle and His Successors
 Introduction to Aristotle and his successors in the ancient period. **Same as** CL 221. It is recommended that PHIL 220/CL 220 and PHIL 221/CL 221 be taken as a sequence in successive terms. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 223 3 hrs.
History of Modern Philosophy I: Descartes and His Successors
 Introduction to Descartes and some of his successors in the early modern period. It is recommended that PHIL 223 and PHIL 224 be taken as a sequence in successive terms. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 224 3 hrs.
History of Modern Philosophy II: Kant and His Predecessors
 Introduction to Kant and some of his predecessors in the early modern period. It is recommended that PHIL 223 and PHIL 224 be taken as a sequence in successive terms. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 225 3 hrs.
Nineteenth-Century Philosophy
 A survey course of the works of major nineteenth century philosophers such as: Hegel, Marx, Nietzsche, Kierkegaard, and Schopenhauer. **Prerequisite(s):** One course in Philosophy or consent of the instructor. *Individual and Society course.*

PHIL 226 3 hrs.
Twentieth-Century Analytic Philosophy
 Historical introduction to the major issues and figures of twentieth-century philosophy in the analytic tradition. Readings from Frege, Russell, Wittgenstein, Quine, and others. **Prerequisite(s):** PHIL 102 or PHIL 210 or consent of the instructor.

PHIL 227 3 hrs.
Continental Philosophy I: Phenomenology and Existentialism
 Existential themes in dramas and fiction as well as selections from the works of such thinkers as Kierkegaard, Nietzsche, Husserl, Heidegger, Merleau-Ponty, Camus, and Sartre. **Prerequisite(s):** Junior standing or consent of the instructor.

PHIL 230 3 hrs.
Topics in Ethics and Political Philosophy
 Survey of major topics in ethical theory and political philosophy. Emphasis varies. **Prerequisite(s):** One course in philosophy or consent of the instructor. **Recommended background:** PHIL 103 or PHIL 109 or PHIL 112 or PHIL 116.

PHIL 232 3 hrs.
Sex Roles: Moral and Political Issues
 Philosophical inquiry into controversies surrounding the changing roles of men and women. **Same as** GWS 232.

PHIL 234 3 hrs.
Philosophy and Film
 A philosophical examination of film, dealing with aesthetic issues, or moral and political issues, or both. Screening accompanies discussion. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 240 3 hrs.
Philosophy and Revelation: Jewish and Christian Perspectives
 Introduction to philosophical ways of addressing the claim that a book (the Bible, the Qur'an) comes from God. Texts by Immanuel Kant, Moses Mendelssohn, and Søren Kierkegaard, among others. Previously listed as PHIL 141. **Same as** RELS 240 and JST 240. **Prerequisite(s):** Two courses in philosophy or consent of the instructor. *Individual and Society, and World Cultures course.*

PHIL 241 3 hrs.
Philosophy of Religion
 Philosophical inquiry into the grounds of faith and belief, the

nature of religious and mystical experience, and the existence and nature of God. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 299 3 hrs.
Seminar
 Selected topics. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 300 3 hrs.
Fundamentals of Philosophical Discourse
 An intensive course for philosophy majors aimed at introducing and developing skill in philosophical writing and oral presentation. Previously listed as PHIL 400. **Prerequisite(s):** Major in philosophy; and junior standing or above or approval of the department.

PHIL 310 3 hrs.
Aristotle and the Arabs
 Traces the major topics of ancient Greek philosophy, especially those of Aristotle, and their transformation into the philosophy developed in the Arabic classical period. **Same as** ARAB 310 and CL 310. **Prerequisite(s):** CL 221 or PHIL 221 or RELS 230.

PHIL 390 3 hrs.
Senior Thesis in Philosophy
 Students will work individually with a member of the faculty on a topic chosen by the student and approved by the faculty. **Prerequisite(s):** Open only to seniors; consent of the instructor and department.

PHIL 399 2-6 hrs.
Independent Study
 Independent study, under the supervision of a staff member, of a topic not covered in the regular curriculum. Offered at the request of the student and only at the discretion of the staff members concerned. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

PHIL 401 3 OR 4 hrs.
Theory of Knowledge
 Survey and analysis of key topics in epistemology, such as skepticism, the nature of propositional knowledge, justification, perception, memory, induction, other minds, naturalistic epistemology. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 201 or consent of the instructor.

PHIL 402 3 OR 4 hrs.
Topics in Philosophy of Mind
 Survey and analysis of one or more topics in philosophy of mind, such as the mind-body problem, philosophy of psychology, perception and sensation, intentional content, consciousness, and mental causation. 3 undergraduate hours; 4 graduate hrs. **Prerequisite(s):** PHIL 202. **Recommended background:** PHIL 102 or PHIL 210.

PHIL 403 3 OR 4 hrs.
Metaphysics
 Intensive treatment of one or more topics, such as free will, personal identity, causation, existence, substance and attribute, the nature of the mind. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 203 or PHIL 226 or PHIL 426 or consent of the instructor.

PHIL 404 3 OR 4 hrs.
Philosophy of Science
 Selected works on the aims and methods of science; the status of scientific theories, natural laws and theoretical entities; the nature of scientific explanation. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 102 or PHIL 210, and one 200-level course in philosophy; or consent of the instructor.

PHIL 406 3 OR 4 hrs.
Philosophy of Language
 Intensive treatment of one or more topics, such as meaning and reference, communication, the structure of language, language and thought, and the relation of language to reality. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 102 or one 200- or 400-level logic course or PHIL 226 or consent of the instructor.

PHIL 410 3 OR 4 hrs.
Introduction to Formal Logic
 Review of predicate logic and of introductory set theory. The concept of a formal system. Notions of completeness and soundness. Introduction to Gödel's first incompleteness theorem. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 210 or consent of the instructor.

PHIL 416 3 OR 4 hrs.
Metalogic I
 Metatheory for sentence and predicate logic. Completeness and compactness theorems and their applications. 3 undergraduate hrs. 4 graduate hrs. Students who have taken MATH 430 may not register for this course. Should be taken in sequence with PHIL 417. **Prerequisite(s):** PHIL 210 or consent of the instructor.

PHIL 417 3 OR 4 hrs.
Metalogic II
 Effective computability and recursive functions. Peano arithmetic. Arithmetization of syntax. Incompleteness and undecidability: Gödel's and Church's theorems. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 416 or consent of the instructor.

PHIL 420 3 OR 4 hrs.
Plato
 Careful reading of selected works. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** PHIL 220 or PHIL 221 or 3 courses in philosophy or consent of the instructor.

PHIL 421 3 OR 4 hrs.
Aristotle
Careful reading of selected works. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** PHIL 220 or PHIL 221 or 3 courses in philosophy or consent of the instructor.

PHIL 422 0–4 hrs.
Medieval Philosophy
Study of selected philosophers such as Augustine, Boethius, Averroes, Maimonides, Aquinas, William of Ockham, Buridan, Suarez. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 220 or PHIL 221 or PHIL 420 or PHIL 421 or consent of the instructor.

PHIL 423 3 OR 4 hrs.
Studies in Early Modern Philosophy
Careful reading of selected works of one or more philosophers, 1600 to 1750, such as Descartes, Hobbes, Spinoza, Leibniz, Locke, Berkeley, Hume, Reid and Rousseau. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** PHIL 223 or PHIL 224 or 3 courses in philosophy or consent of the instructor.

PHIL 424 3 OR 4 hrs.
Kant
Intensive study of Kant's metaphysics and theory of knowledge with main reading drawn from the *Critique of Pure Reason*. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 223 or PHIL 224 or 3 courses in philosophy or consent of the instructor.

PHIL 425 3 OR 4 hrs.
Studies in Nineteenth-Century Philosophy
Careful reading of one or more post-Kantian philosophers such as Hegel, Schelling, Fichte, Schopenhauer, Marx, J.S. Mill, Kierkegaard, Nietzsche. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor.

PHIL 426 3 OR 4 hrs.
Analysis and Logical Empiricism
Developments in twentieth century philosophy with roots in the study of logic and language, such as logical atomism, logical empiricism, and contemporary analytic philosophy. Topics vary. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 210 or PHIL 226 or consent of the instructor.

PHIL 427 3 OR 4 hrs.
Continental Philosophy II: European Thought since 1960
European thought since 1960: existential Marxism; critical theory; structuralism, poststructuralism and deconstruction. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 227 or consent of the instructor.

PHIL 428 3 OR 4 hrs.
Topics in Ancient Philosophy
Careful reading of related works by ancient philosophers, such as Plato and Aristotle. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** PHIL 220 or PHIL 221; and junior standing or above.

PHIL 429 3 OR 4 hrs.
Special Studies in the History of Philosophy
Advanced study of a historical school, period, or the development of a historical theme. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** One 200-level course in the history of philosophy or consent of the instructor.

PHIL 430 3 OR 4 hrs.
Ethics
Selected topics in moral philosophy, such as normative ethics, value theory or meta-ethics. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor. **Recommended background:** Credit in a course in moral, social, or political philosophy.

PHIL 431 3 OR 4 hrs.
Social/Political Philosophy
Selected topics in social and political philosophy. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor. **Recommended background:** Credit in a course in moral, social, or political philosophy.

PHIL 432 3 OR 4 hrs.
Topics in Ethics
Selected topics in ethics. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor. **Recommended background:** Credit in a course in moral, social, or political philosophy.

PHIL 433 3 OR 4 hrs.
Topics in Social/Political Philosophy
Selected topics in social and political philosophy. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor. **Recommended background:** Credit in a course in moral, social, or political philosophy.

PHIL 441 0–4 hrs.
Topics in Philosophy of Religion
Intensive study of one or more selected topics concerning the philosophical aspects of basic religious beliefs and concepts. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time with approval. Approval to repeat course granted by the department. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor. **Recommended background:** PHIL 241.

PHIL 484 3 hrs.
Neuroscience I
Neuroscience as an integrative discipline. Neuroanatomy of vertebrates, neural development, cellular neurobiology, action potential mechanisms, synaptic transmission and neuropharmacology. **Same as** BIOS 484 and PSCH 484. **Prerequisite(s):** BIOS 286 or PSCH 262.

PHIL 485 3 hrs.
Neuroscience II
Intergrative neuroscience, continuation of BIOS/PSCH/PHIL 484. Sensory and motor systems; learning, memory, and language. Pathology of nervous systems. Philosophical perspectives, and modeling. **Same as** BIOS 485 and PSCH 485. **Prerequisite(s):** BIOS 484.

Physics

PHYS 099 3 hrs.
Preparation for Elementary Physics Sequences
Provides smooth transition into PHYS 141. Overview of physics. Emphasis on word problems and applications of mathematics. Discussion of particle kinematics. Satisfactory/Unsatisfactory grading only. No graduation credit. Eligibility determined by performance on the department placement test or recommendation of the department. **Prerequisite(s):** High school algebra.

PHYS 104 1 hour.
Problem-Solving Workshop for Introductory Physics I
A workshop where groups of students work together to solve problems using computers. The problems are similar to, and sometimes more challenging than, those in PHYS 105. Satisfactory/Unsatisfactory grading only. PHYS 104 is the companion course for the PHYS 105 lecture. Must enroll concurrently in PHYS 105.

PHYS 105 4 hrs.
Introductory Physics I—Lecture
A noncalculus course. Kinematics; Newton's laws; momentum; work and energy; torque and angular momentum; rotational dynamics; gravitation; oscillations; waves physical; optics; relativity. Students may obtain one additional hour of credit by concurrently registering in PHYS 104. **Prerequisite(s):** High school algebra and trigonometry. Must enroll concurrently in PHYS 106. *Natural World—No Lab course.*

PHYS 106 1 hour.
Introductory Physics I—Laboratory
Noncalculus course. Kinematics; Newton's laws; simple harmonic motion; linear momentum; work and energy; torque and angular momentum; rotational dynamics; gravitation; waves, physical geometric optics; relativity. Students may obtain one additional hour of credit by concurrently registering in PHYS 104. **Prerequisite(s):** High school algebra and trigonometry. Must enroll concurrently in PHYS 105. *Natural World—With Lab course.*

PHYS 107 4 hrs.
Introductory Physics II—Lecture
A noncalculus course. Electrostatics; electric current; magnetism; Faraday's law; Maxwell's relations; electromagnetic radiation; geometric optics; quantum mechanics; the Heisenberg uncertainty principle; Bohr model; nuclear and particle physics. **Prerequisite(s):** PHYS 105 and PHYS 106. Must enroll concurrently in PHYS 108. *Natural World—No Lab course.*

PHYS 108 1 hour.
Introductory Physics II—Laboratory
Noncalculus course. Electrostatics; electric current; magnetism; Faraday's law; Maxwell's relations; electromagnetic radiation; introduction to quantum mechanics, the Heisenberg uncertainty principle; Bohr model; nuclear physics; particle physics. Natural Sciences CDC granted only upon successful completion of both PHYS 107 and PHYS 108. **Prerequisite(s):** PHYS 101; or PHYS 105 and PHYS 106. Must enroll concurrently in PHYS 107. *Natural World—With Lab course.*

PHYS 112 4 hrs.
Astronomy and the Universe
Astronomy in the context of the scientific process, history, and current events. Covers the Solar System, stars and galaxies and the origin and fate of the universe. Student may obtain one additional hour of credit by concurrently registering in Physics 122. *Natural World—With Lab course.*

PHYS 113 4 hrs.
Physics of Sports
Investigation of physical principles underlying various phenomena in sports. Examples are taken from baseball, basketball, track and field, swimming and other areas. **Prerequisite(s):** High school algebra. *Natural World—With Lab course.*

PHYS 115 4 hrs.
Physics of Sound and Music
Study of production, transmission, reception, and perception of musical sound both vocal and instrumental, both live and electronically reproduced. **Prerequisite(s):** High school algebra. *Natural World—With Lab course.*

PHYS 121 4 hrs.
Natural Sciences—The Physical Universe
Physical laws and the nature of matter in the evolving universe. Students may obtain one additional hour of credit by concurrently registering in PHYS 122. **Prerequisite(s):** Basic algebra. *Natural World—With Lab course.*

PHYS 122 1 hour.
Problem-Solving Workshop for Natural Sciences—The Physical Universe
A workshop where small groups of students work together to solve problems similar to, but more challenging than, the problems given in PHYS 112 or PHYS 121. Must enroll concurrently in PHYS 112 or PHYS 121.

PHYS 123 5 hrs.
Physics of the Environment
Investigation of the physical environment of humans and of environmental problems, using the language and methods of physics including a study of energy, climate, ozone, and industrial waste. **Prerequisite(s):** High school algebra. *Natural World—With Lab course.*

PHYS 141 4 hrs.
General Physics I (Mechanics)
Kinematics; Newton's laws of motion; linear momentum and impulse; work and kinetic energy; potential energy; rotational dynamics; simple harmonic motion; gravitation. Students may obtain one additional hour of credit by concurrently registering in PHYS 144. **Prerequisite(s):** Grade of C or better in MATH 180 or consent of the instructor. *Natural World—With Lab course.*

PHYS 142 4 hrs.
General Physics II (Electricity and Magnetism)
Electrostatics; electric currents; DC circuits; magnetic fields; magnetic media; electromagnetic induction; AC circuits; Maxwell's equations; electromagnetic waves; reflection and refraction; interference. **Prerequisite(s):** MATH 181; and grade of C or better in either Physics 141 or both Physics 105/106; or consent of the instructor. *Natural World—With Lab course.*

PHYS 144 1 hour.
Problem-Solving Workshop for General Physics I (Mechanics)
A workshop where small groups of students work together using computer simulations to solve problems similar to, but more challenging than, the ones given in PHYS 141. Satisfactory/Unsatisfactory grading only. Must enroll concurrently in PHYS 141.

PHYS 210 3 hrs.
Astrophysics
Quantitative study of stellar evolution from proto stars to red giants, white dwarfs, neutron stars, and black holes. Introduction to big bang cosmology. No calculus required. **Prerequisite(s):** PHYS 107 or PHYS 142 or consent of the instructor.

PHYS 215 4 hrs.
Mathematical Methods for Physicists
Applications of mathematical methods to physics problems. Vector calculus, linear algebra, ordinary differential equations of first and second Fourier series. Students may obtain one additional hour of credit by concurrently registering in PHYS 216. **Prerequisite(s):** Grade of C or better in MATH 210.

PHYS 216 1 hour.
Problem-Solving Workshop for Mathematical Methods for Physicists
A workshop where groups of students work together to solve mathematical physics problems using Maple. Satisfactory/Unsatisfactory grading only. Extensive computer use required. Taught in a computer lab. **Prerequisite(s):** Credit or concurrent registration in PHYS 215. Recommended to be taken concurrently with PHYS 215.

PHYS 244 3 hrs.
General Physics III (Modern Physics)
Special theory of relativity. Particle-wave duality. Uncertainty principle; Bohr model; introduction to quantum mechanics; Schrodinger equation; hydrogen atom; many-electron atoms. Introduction to nuclear and particle physics. **Prerequisite(s):** Grade of C or better in PHYS 107 and grade of C or better in PHYS 108; or grade of C or better in PHYS 142.

PHYS 245 4 hrs.
General Physics IV (Heat, Fluids, and Wave Phenomena)
Thermodynamic laws and processes; kinetic theory of gases; hydrostatics and fluid flow; general wave phenomena; acoustics; geometrical optics; physical optics. **Prerequisite(s):** PHYS 142.

PHYS 391 1 hour.
Physics Seminar
Preparation and presentation by students of talks on topics of current interest in physics. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 4 hrs. **Prerequisite(s):** Senior standing.

PHYS 392 2–4 hrs.
Physics Research
Research under the close supervision of a faculty member. **Prerequisite(s):** Approval of the department.

PHYS 393 2–4 hrs.
Special Problems
Special problems or reading in modern physics under individual arrangement with a faculty member. **Prerequisite(s):** Approval of the department.

PHYS 401 4 hrs.
Electromagnetism I
Vector calculus; electrostatic fields in vacuum; solution of electrostatic boundary-value problems; electrostatic fields in material media; electrostatic energy; electric currents. **Prerequisite(s):** PHYS 142 and PHYS 215.

PHYS 402 4 hrs.
Electromagnetism II
Magnetic fields of steady currents and magnetic materials; electromagnetic induction; magnetic energy; slowly-varying currents; AC circuits; Maxwell's equations; electromagnetic waves; bounded regions; special relativity. **Prerequisite(s):** PHYS 401.

PHYS 411 4 hrs.
Quantum Mechanics I
Wave particle duality; wave functions; Schrodinger equation; mathematical structure of quantum mechanics; operators and observables; matrix representation of operators; three-dimensional Schrodinger equation. **Prerequisite(s):** PHYS 215 and PHYS 244 and PHYS 245; or consent of the instructor.

PHYS 412 4 hrs.
Quantum Mechanics II
This is the second semester of a two-semester undergraduate level sequence on the concepts and methods of Quantum Mechanics and their applications. **Prerequisite(s):** PHYS 411.

PHYS 421 4 hrs.
Modern Physics: Atoms and Molecules
Hydrogenic atoms, electron spin, external fields, multi-electron atoms, diatomic molecules, line widths, photons, radiation from atoms and other electromagnetic processes, positrons, positronium, elastic electron scattering. **Prerequisite(s):** Credit or concurrent registration in PHYS 411.

PHYS 425 5 hrs.
Modern Optics
Review of electromagnetic wave theory; advanced geometrical optics; Fourier transforms and

optics; interference and diffraction; laser cavities and gain media; introduction to nonlinear and fiber optics. **Prerequisite(s):** PHYS 244.

PHYS 431 4 hrs.
Modern Physics: Condensed Matter
Crystal structures; interatomic binding; lattice vibrations; thermal and magnetic properties; quantum statistical mechanics; free electron theory of metals; electronic band theory; semiconductors and insulators; superconductivity. **Prerequisite(s):** PHYS 411 and PHYS 461; or consent of the instructor.

PHYS 441 4 hrs.
Theoretical Mechanics
Covers variable motion, non-inertial frames, oscillations, rigid body motion, three-dimensional motion, angular momentum, torque, orbits, Lagrange's equations. **Prerequisite(s):** PHYS 142 and PHYS 215.

PHYS 450 4 hrs.
Molecular Biophysics of the Cell
Introduction to force, time energies at nanometer scales; Boltzmann distribution; hydrodynamic drag; Brownian motions; DNA, RNA protein structure and function; sedimentation; chemical kinetics; general aspects of flexible polymers. **Same as** BIOE 450. **Prerequisite(s):** PHYS 245 or the equivalent.

PHYS 451 4 hrs.
Modern Physics: Nuclei and Elementary Particles
Accelerators, detectors, symmetries, conservation laws, leptons, weak interactions, electroweak theory, strong interactions, hadrons, nuclear forces, systematics and reactions, nuclear models, nuclear astrophysics, quarks, quantum chromodynamics. **Prerequisite(s):** PHYS 411.

PHYS 461 4 hrs.
Thermal and Statistical Physics
Thermal equilibrium (Zeroth Law); thermodynamic states (First Law); irreversibility; entropy (Second Law); thermodynamic potentials and properties; phase transitions; kinetic theory of gases; classical statistical mechanics. **Prerequisite(s):** PHYS 245.

PHYS 470 6 hrs.
Educational Practice with Seminar I
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

PHYS 471 6 hrs.
Educational Practice with Seminar II

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in PHYS 470, and approval of the department.

PHYS 481 4 hrs.
Modern Experimental Physics I

Theory and experimental use of linear circuits, semiconductor devices, amplifiers, oscillators. Techniques and experiments in atomic, molecular, and solid-state physics. **Prerequisite(s):** PHYS 244.

PHYS 482 4 hrs.
Modern Experimental Physics II

Techniques and experiments in nuclear and particle physics. Gamma-gamma correlations, muon lifetime, Compton scattering, alpha particle scattering. Computer-based experimentation. **Prerequisite(s):** PHYS 481.

PHYS 491 1–4 hrs.
Special Topics in Physics
Selected topics of current interest in physics. May be repeated. **Prerequisite(s):** PHYS 215 and sophomore standing or above; or approval of the department.

PHYS 494 2–4 hrs.
Special Topics in Physics Teaching
Seminar on various topics related to the teaching of physics. Subjects are announced. May be repeated. Students may register in more than one section per term. Supervised teaching practice included. **Prerequisite(s):** Graduate standing or approval of the department.

PHYS 499 1 hour.
Survey of Physics Problems
Problem-solving techniques applied to the variety of undergraduate physics topics. May be repeated up to 1 time. No graduation credit for graduate students. Grade of C or better required to graduate with an undergraduate degree in physics. **Prerequisite(s):** Credit or concurrent registration in PHYS 481.

Physiology and Biophysics

PHYB 301 5 hrs.
Human Physiology and Pathophysiology I
Designed for the College of Pharmacy. Physiology and pathophysiology of the nervous, cardiovascular, and excretory systems at the cell, tissue, organ, and system levels. **Prerequisite(s):** Enrollment in the Doctor of Pharmacy program.

PHYB 302 5 hrs.
Human Physiology and Pathophysiology II
Continuation of PHYB 301. Physiology and pathophysiology of the blood, respiratory, endocrine, and reproductive systems. General pathology, mechanisms of disease. **Prerequisite(s):** PHYB 301 and enrollment in the Doctor of Pharmacy program.

PHYB 396 1–4 hrs.
Independent Study
Independent study (non-laboratory) for advanced undergraduates majoring in appropriate disciplines. **Prerequisite(s):** Consent of the instructor.

PHYB 399 1–4 hrs.
Laboratory Research
Laboratory research for advanced undergraduates majoring in appropriate disciplines. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Consent of the instructor.

Polish

POL 101 4 hrs.
Elementary Polish I
Phonetics, introductory grammar, and reading. Four additional half hours each week in the language laboratory. **Prerequisite(s):** For students who have had no formal work in Polish.

POL 102 4 hrs.
Elementary Polish II
Continues POL 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** POL 101 or the equivalent.

POL 103 4 hrs.
Intermediate Polish I
Continues POL 102. **Prerequisite(s):** POL 102 or the equivalent.

POL 104 4 hrs.
Intermediate Polish II
Continues POL 103. **Prerequisite(s):** POL 103 or the equivalent.

POL 115 3 hrs.
Introduction to Polish Culture
Main trends in Polish culture in the context of parallel developments in Western European civilization. Taught in English. *Creative Arts, and World Cultures course.*

POL 120 3 hrs.
The Polish Short Story in Translation
Introduction to representative Polish short stories of the nineteenth and twentieth centuries; the elements of fiction; close reading of prose texts. Taught in English. *Creative Arts, and World Cultures course.*

POL 130 3 hrs.
Masterworks of Polish Literature in Translation
The most important works of Poland's greatest writers in the areas of poetry, drama, and prose. Taught in English. *Creative Arts, and World Cultures course.*

POL 140 3 hrs.
Polish Drama in Translation
Elementary aspects of Polish dramatic theory and close reading of representative scripts selected from various periods. **Same as** THTR 140. Taught in English. *Creative Arts, and World Cultures course.*

POL 150 3 hrs.
Introduction to Polish Cinema
Introduction to the major themes and techniques of Polish film art; comparative survey of narrative film and literature. Taught in English. Films screened with English subtitles. *Creative Arts, and World Cultures course.*

POL 234 3 hrs.
History of Poland
Political, socioeconomic, and cultural developments since the first Polish state, the union with Lithuania, the struggle for independence, Communist rule to the present. **Same as** HIST 234. *Individual and Society, and Past course.*

POL 241 3 hrs.
Mickiewicz and Sienkiewicz: Polish Romanticism and Realism
The study of two major Polish authors as foremost representatives of Polish romanticism (Mickiewicz) and realism (Sienkiewicz). Taught in English. **Prerequisite(s):** Sophomore standing or consent of the instructor. *Creative Arts, and World Cultures course.*

POL 301 3 hrs.
Polish Composition and Conversation I
Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. **Prerequisite(s):** POL 104 or the equivalent.

POL 302 3 hrs.
Polish Composition and Conversation II
Continues POL 301. **Prerequisite(s):** POL 301.

POL 321 3 hrs.
Introduction to Polish Literature I
Old Polish literature from medieval Latin and vernacular texts to masterpieces of the Polish Enlightenment. Taught in English. **Prerequisite(s):** Junior standing or consent of the instructor.

POL 322 3 hrs.
Introduction to Polish Literature II
Modern Polish literature in Poland and abroad. Taught in English. **Prerequisite(s):** Junior standing or consent of the instructor.

POL 399 1–3 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Junior standing, consent of the instructor and consent of the head of the department.

POL 401 3 OR 4 hrs.
Polish Composition and Conversation III
Development of oral and writing skills: expanding vocabulary and perfecting style. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POL 302.

POL 402 3 OR 4 hrs.
Polish Composition and Conversation IV
Continues POL 401. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POL 401 or the equivalent.

POL 410 3 OR 4 hrs.
Structure of Modern Polish
A synchronic linguistic analysis of Polish substantives, pronouns, verbs, deverbal nouns, and minor parts of speech from a syntagmatic and paradigmatic point of view. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POL 402 or the equivalent.

POL 450 3 OR 4 hrs.
Studies in Polish Drama
Main trends in Polish drama, leading playwrights, their aesthetics, and philosophy in the context of European drama and from the Renaissance to the present. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** Advanced undergraduate standing.

POL 460 3 OR 4 hrs.
Studies in Polish Literature
Literary trends in Polish poetry and prose; their poetics, aesthetics, and philosophy in their European context. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** Advanced undergraduate standing.

POL 499 1–4 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hrs. Graduate students may register for more than one section per term. **Prerequisite(s):** Senior or graduate standing, consent of the instructor and consent of the head of the department.

Political Science

POLS 101 3 hrs.
Introduction to American Government and Politics
Introduction to American political ideas, individual and group political behavior, institutions of national government, and public policy. May be taught in blended learning format. Please check the *Schedule of Classes* for blended sections. *Individual and Society, and U.S. Society course.*

POLS 103 3 hrs.
Who Rules?: Introduction to the Study of Politics
An introduction to the concepts and methods of political analysis, philosophy, and action. Substantive focus on the selection of political leaders in the U.S. *U.S. Society course.*

POLS 105 3 hrs.
Honors Seminar in Political Science
 Selected problems in political analysis. Course content and format varies according to programmatic needs and instructor expertise. **Prerequisite(s):** Membership in the Honors College or consent of the instructor.

POLS 111 3 hrs.
United States Politics: Current Problems and Controversies
 Selected current political problems and controversies are analyzed and placed in the context of past and future public policies and the development of political institutions.

POLS 112 3 hrs.
African American Politics and Culture
 A survey of African American political and cultural activism from the Black Convention Movement of the 1830s to contemporary times. **Same as** AAST 103. *Individual and Society, and U.S. Society course.*

POLS 120 3 hrs.
Introduction to Political Theory
 Competing accounts of the relationships among individuals, society, and the state. Analysis of differing conceptions of human nature through readings in ancient and modern classics. *Individual and Society, and Past course.*

POLS 130 3 hrs.
Introduction to Comparative Politics
 Comparative study of political institutions, political culture, and political processes in selected major countries of the world. **Same as** INST 130 and LALS 130. *Individual and Society, and World Cultures course.*

POLS 184 3 hrs.
Introduction to International Relations
 Political, military, and economic relations between states, international organizations, and transnational actors. Problems of war, imperialism and the world economy. Prospects for global cooperation. **Same as** INST 184. *Individual and Society, and World Cultures course.*

POLS 190 3 hrs.
Scope of Political Science
 Politics as law and institutions, markets and power, and culture and identity. Emphasizes writing of essays. **Prerequisite(s):** Freshman, sophomore or junior standing. Seniors require consent of the instructor. *Individual and Society course.*

POLS 200 3 hrs.
Methods of Political Science
 Different methods for doing research on law and institutions, markets and power, and identity and culture. Problems in explanation and interpretation. **Prerequisite(s):** POLS 190.

POLS 201 3 hrs.
Political Data Analysis
 Introduction to basic elements of statistics and data analysis for political science. Includes descriptive and inferential statistics; introduction to UIC computer facility and statistics software. **Prerequisite(s):** MATH 090 or MATH 092 or MATH 118.

POLS 202 3 hrs.
Topics in Political Practice
 Selected topics in contemporary political practice. May be repeated to a maximum of 6 hours if topics vary. Students may register in more than one section per term. **Prerequisite(s):** POLS 101 or POLS 190.

POLS 206 3 hrs.
Political Behavior
 An introduction to political behavior; includes the structure and functions of political attitudes, the role of personality, political socialization, electoral behavior, and related topics. **Prerequisite(s):** POLS 101.

POLS 207 3 hrs.
The Mass Media and Politics
 Impact of mass media coverage on political attitudes and the conduct of American politics. Communication policies and media institutions in times of rapid technological change. **Same as** COMM 207. **Prerequisite(s):** One course in political science, sociology or contemporary history.

POLS 209 3 hrs.
Latinos and Politics
 Latino politics and politicians in the context of the American political system. The political system, Latino participation, experience, and research on political processes. **Same as** LALS 283. *U.S. Society course.*

POLS 210 3 hrs.
Introduction to Urban Politics
 Growth and legal problems of cities: intergovernmental relations; powers and forms of government; pressure group activity; municipal functions and services; and revenue problems. **Prerequisite(s):** POLS 101 or POLS 103 or POLS 190.

POLS 211 3 hrs.
Chicago's Future
 Emphasis on the political and governmental future of Chicago. Covers racial and ethnic politics, metropolitan, city, and neighborhood government, machine versus reform politics. **Prerequisite(s):** POLS 101 or POLS 103 or POLS 190.

POLS 212 3 hrs.
State Government
 Organization and powers of state governments in the U.S.; constitutions and problems of revision; the major institutions and their interrelationships, intergovernmental relations. **Prerequisite(s):** POLS 101 or POLS 103 or POLS 190.

POLS 225 3 hrs.
Political Interest Groups
 Pluralism, the logic of collective action, the special-interest state, public-interest groups, and corporatism. **Prerequisite(s):** POLS 101 or consent of the instructor.

POLS 226 3 hrs.
Political Parties
 Historical development, organization, and functioning of state and national parties; committees, conventions, campaigns and finances; party platforms and issues. **Prerequisite(s):** POLS 101 or POLS 103 or POLS 190.

POLS 227 3 hrs.
Voting Behavior and Elections
 Examination of elections, voting behavior, election law, and voting theories and influences. **Prerequisite(s):** Grace of C or better in POLS 101.

POLS 228 3 hrs.
U.S. Congress
 Introduction to the structures and processes of congressional politics. Emphasis on elections, organization, interinstitutional relations and authorizations and appropriations processes. **Prerequisite(s):** POLS 101.

POLS 229 3 hrs.
The American Presidency
 Examination of such phenomena as presidential elections; the presidency and the Constitution; the presidency and public administration; the president as policymaker; presidential leadership. **Prerequisite(s):** POLS 101.

POLS 231 3 hrs.
Politics in China
 The dynamics of the Chinese Communist revolution; post-Mao reforms; the structure and operation of key political institutions; relations with major powers. **Same as** ASST 231. **Prerequisite(s):** POLS 130 or POLS 190; or consent of the instructor. *World Cultures course.*

POLS 232 3 hrs.
Politics in Japan and Korea
 Sources, dynamics, and patterns of politics in Japan and the two Koreas. Appraisal of the Japanese model. Comparison of Japan and Korea. **Same as** ASST 232. **Prerequisite(s):** POLS 130 or POLS 190 or consent of the instructor. *World Cultures course.*

POLS 233 3 hrs.
British Politics and Government
 Examination of the British political system.

POLS 234 3 hrs.
Western European Politics and Government
 Comparison of government and politics of major Western European countries. Topics include political culture, political parties, elections, legislatures, executive arrangements, and the European community. **Prerequisite(s):** POLS 130 or POLS 190 or consent of the instructor.

POLS 235 3 hrs.
Politics and Government of Russia
 The nature, evolution, and problems of political process and institutions in the former USSR and successor states. **Prerequisite(s):** POLS 130 or POLS 190.

POLS 236 3 hrs.
Politics and Government of Eastern Europe
 Similarities and differences of the political system of eastern European states and the sources and meaning of political change. **Prerequisite(s):** POLS 130 or POLS 190.

POLS 242 3 hrs.
Government and Politics of Latin America
 An examination of government and politics in selected Latin American countries. Comparative and historical analysis of dictatorship, democracies, political institutions, and parties. **Same as** LALS 242. **Prerequisite(s):** Any 100-level course in Latin American and Latino studies or political science.

POLS 243 3 hrs.
Politics and Government of the Middle East
 Contemporary Middle East political institutions, culture, processes, and conflicts. Emphasis on interaction of traditional and modern forces, such as Islam, nationalism, political elites, ideologies, states. **Same as** JST 243. **Prerequisite(s):** POLS 130 or POLS 190; or consent of the instructor. *World Cultures course.*

POLS 245 3 hrs.
Politics and Government of Africa
 Contemporary political systems of selected African countries with emphasis on political leadership, nationalism, ideological trends, and economic development. **Same as** AAST 245. **Prerequisite(s):** POLS 130 or POLS 190 or AAST 100; or consent of the instructor. *World Cultures course.*

POLS 249 3 hrs.
Political Economies of Advanced Industrial Countries
 The role of governments in the economies of the U.S., Western Europe, and Japan. Government-industry relations, central planning macroeconomic and industrial policies. **Prerequisite(s):** POLS 130 or consent of the instructor.

POLS 251 3 hrs.
African Americans and the Law to 1954

Survey of the African American constitutional experience from the 1600s until the landmark *Brown* decision in 1954 striking down state-sponsored racial segregation and de jure discrimination. **Same as** AAST 251.

Prerequisite(s): Grade of C or better in AAST 100 or grade of C or better in POLS 101 or grade of C or better in POLS 103 or grade of C or better in POLS 190; or consent of the instructor. *Past, and U.S. Society course.*

POLS 252 3 hrs.
African Americans and the Law, since 1954

Survey of the African American constitutional experience since the landmark 1954 *Brown* decision to the present day. **Same as** AAST 252. **Prerequisite(s):** Grade of C or better in AAST 100 or grade of C or better in POLS 101 or grade of C or better in POLS 103 or grade of C or better in POLS 190; or consent of the instructor. **Recommended background:** AAST 251 or POLS 251. *Past, and U.S. Society course.*

POLS 258 3 hrs.
The Judicial Process

Dispute settlement and policy making in state and federal court systems; judicial decision making and the impact of decisions on the polity. **Prerequisite(s):** POLS 101 or POLS 103 or POLS 190.

POLS 275 3 hrs.
Gender in Latin America

Latin American women in historical perspective from pre-Columbian and Iberian societies to the present. **Same as** GWS 275 and LALS 275. *World Cultures course.*

POLS 281 3 hrs.
United States Foreign Policy
Internal and external factors that influence formulation and execution of U.S. foreign policy. Major problems of contemporary foreign policy: constitutional, organizational, and intellectual factors. **Prerequisite(s):** POLS 101 or POLS 190.

POLS 282 3 hrs.
National Model United Nations

Students prepare to assume the role of diplomatic representatives at the National Model United Nations Conference. May be repeated to a maximum of 6 hours with approval. Approval to repeat course granted by the department. **Prerequisite(s):** Consent of the instructor.

POLS 283 3 hrs.
International Political Economy

Political underpinnings and ramifications of international economic relations. Foreign trade policy, multinational corporations, oil North-South relations, economic warfare. **Same as** INST 283. **Prerequisite(s):** POLS 184 or INST 184 or consent of the instructor.

POLS 284 3 hrs.
International Security
International conflict and cooperation, including war, nationalism, global inequality, and the environment. **Same as** INST 284. **Prerequisite(s):** POLS 184 or INST 184 or consent of the instructor.

POLS 286 3 hrs.
The United Nations and Other International Organizations

The development, structure, functioning, and impact of the United Nations and other international organizations. An assessment of their contributions and limitations. **Prerequisite(s):** POLS 184 or consent of the instructor.

POLS 287 3 hrs.
International Law

The nature, scope, and limits of international law in the contemporary world. Examines three dimensions of international law: doctrine, practice, and jurisprudence (case-law). **Prerequisite(s):** POLS 184 or consent of the instructor.

POLS 290 3 hrs.
History of Political Thought I

Western political theorists from ancient Greece through the sixteenth century, including Plato, Aristotle, Aquinas, and Machiavelli. **Prerequisite(s):** POLS 120 or POLS 190.

POLS 291 3 hrs.
History of Political Thought II

Western political theorists from the seventeenth century through modern times, including Hobbes, Locke, Marx, Mill and Nietzsche. **Prerequisite(s):** POLS 190 or POLS 120.

POLS 293 3 hrs.
Possible Political Systems: Ideal and Actual

Political possibilities beyond those that presently prevail. Arguments for gender equality, participatory democracy, and alternative technologies are examined and evaluated. **Prerequisite(s):** POLS 190 or consent of the instructor.

POLS 295 3 hrs.
Introduction to Marxism

Examination and evaluation of the basic theories of Marx and Engels to determine their contribution to the understanding of contemporary politics. **Prerequisite(s):** POLS 190 or consent of the instructor.

POLS 297 3 hrs.
American Political Theories

American political theorists from the colonial period to the present, including Paine, Madison, Hamilton, Thoreau, Calhoun, Sumner, DuBois, and Dewey. **Prerequisite(s):** POLS 190 or consent of the instructor.

POLS 300 3 hrs.
Symposium on Politics

Selected problems in politics. Course content and format will vary to adapt to the changing political scene. May be repeated to a maximum of 6 hrs. Students may register in more than one

section per term. **Prerequisite(s):** Junior or senior standing or consent of the instructor.

POLS 301 6 hrs.
Field Experience in Political Science

Provides students an opportunity to apply theoretical knowledge in real-life political settings, such as governmental agencies, political parties or interest groups.

Prerequisite(s): Junior or senior standing; at least 12 credit hours in political science, including courses relevant to the field experience; GPA of 3.00 in political science; and consent of the instructor.

POLS 302 6 hrs.
Great Cities Internship

Provides students an opportunity to apply theoretical knowledge and conduct research in metropolitan organizations through field placements and seminars. **Same as** UPP 302. **Prerequisite(s):** Junior or senior standing and grade point average of 3.00, or consent of the instructor.

POLS 303 1-3 hrs.
Supervised Readings and Research

Supervised readings and research in political science. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

POLS 305 3-6 hrs.
Honors Course

Independent reading and research for students seeking departmental distinction. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** A 3.25 University grade point average and a 3.50 political science grade point average and approval of the department. Open only to seniors.

POLS 307 3 hrs.
Political Psychology

Analysis of mass and elite political behavior from the perspectives of several psychological approaches, including psychoanalytic, behavioral, humanistic, and social psychology theories. **Prerequisite(s):** One course in political science, psychology, or sociology.

POLS 309 3 hrs.
Topics in Political Behavior

Intensive analysis of topics in political behavior. Possible topics include: elections and campaigns, political culture. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** POLS 206 or consent of the instructor.

POLS 310 3 hrs.
Governing the Megalopolis

Examination of political/governmental issues in massive metropolitan areas, utilizing the six-county greater Chicago area for example. **Prerequisite(s):** POLS 101 or POLS 200 or the equivalent or consent of the instructor.

POLS 311 3 hrs.
Black Politics in the United States

Historical analysis of Black electoral politics in the U.S., including traditional political party participation and movement politics. **Same as** AAST 306.

Prerequisite(s): Three courses in political science, history or sociology, or consent of the instructor.

POLS 312 3 hrs.
Topics in Local Politics

Intensive examination of selected problems of local politics. Actual research involvement. Topics vary. **Prerequisite(s):** POLS 101 and POLS 210.

POLS 313 3 hrs.
Urban Political Economy

The interaction of the national political economy and urban political structures and their impact on social problems, racial and class conflict, and fiscal crisis. **Prerequisite(s):** POLS 101 and POLS 200.

POLS 314 3 hrs.
Neighborhood and Community Political Organizations

The strategies, strengths and weaknesses of community and neighborhood organizations designed around human capital investment (such as education, employment, crime and violence, and community preservation). **Prerequisite(s):** POLS 101 and POLS 200.

POLS 329 3 hrs.
Seminar on American Politics

Advanced seminar on special topics in American politics. Content varies. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** POLS 101 and POLS 200.

POLS 348 3 hrs.
Seminar: Political Problems of Developing Societies

Selected aspects of the politics and countries of Asia, Africa, and Latin America. **Same as** LALS 348. **Prerequisite(s):** POLS 200 and POLS 130; or consent of the instructor.

POLS 349 3 hrs.
Topics in Comparative Politics

Selected problems in comparative politics. **Same as** INST 349. May be repeated to a maximum of 6 hours if topics vary. **Prerequisite(s):** POLS 130 or INST 130 and POLS 200.

POLS 353 3 hrs.
Constitutional Law

Selected constitutional provisions and principles as they developed through Supreme Court interpretation. Major attention given to powers and practices of, and interactions among governmental institutions. **Prerequisite(s):** POLS 101 or consent of the instructor.

POLS 354 3 hrs.
The Constitution and Civil Liberties

Civil rights, including religion, speech, assembly, press, and rights of the accused.

Prerequisite(s): POLS 101 or consent of the instructor.

POLS 356 3 hrs.
Constitutional Law: Women, Gender, and Privacy

A multidisciplinary examination of U.S. constitutional law and politics in shaping issues of gender, privacy, race, and sexual orientation; including reproduction, labor, sexual harassment, political participation, and women and crime. **Same as** AAST 356 and GWS 356. **Prerequisite(s):** Grade of C or better in POLS 101 or grade of C or better in POLS 112 or grade of C or better in AAST 100 or grade of C or better in AAST 103 or grade of C or better in GWS 101; or consent of the instructor.

POLS 359 3 hrs.
Topics in Public Law

Selected problems arising in public law and judicial arenas. May be repeated to a maximum of 6 hours if topics vary.

Prerequisite(s): POLS 190 or POLS 200 or POLS 258.

POLS 384 3 hrs.
International Relations Theory

Philosophical foundations of international relations, including assumptions of anarchy, rationality, power, and the state. Applications to security and political economy.

Prerequisite(s): POLS 283 or POLS 284 or consent of the instructor.

POLS 389 3 hrs.
Seminar: Topics in International Relations

Selected topics in international relations. Topics may vary and may cover global military, economic, cultural, ecological, or methodological issues. May be repeated to a maximum of 6 hours if topics vary.

Prerequisite(s): POLS 184 and POLS 200.

POLS 399 3 hrs.
Seminar in Political Theory

Selected topics and problems in political theory. May be repeated to a maximum of 6 hrs.

Prerequisite(s): POLS 120 and POLS 200.

POLS 401 3 OR 4 hrs.
Data Analysis I

Statistical inference for the social sciences. Emphasis on univariate and bivariate statistics. **Same as** PPA 401. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POLS 200 and POLS 201; or graduate standing.

POLS 405 3 OR 4 hrs.
The Problem of Justice

Premodern and modern views of justice and their practical utility in analyzing legislative, executive, and judicial programs for enhancing or restricting justice. **Same as** CLJ 405. 3 undergrad-

uate hrs. 4 graduate hrs.

Prerequisite(s): CLJ 101, plus two 200-level courses in criminology, law, and justice or two 200-level courses in political science.

POLS 435 3 OR 4 hrs.
Special Topics in Bureaucracy

Consideration of timely or enduring issues in policy formation and bureaucracy not available in regularly offered courses. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. **Prerequisite(s):** Consent of the instructor.

POLS 451 3 OR 4 hrs.
Law and Public Policy

The role of law and legal institutions in the development and implementation of public policies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Graduate standing or consent of the instructor.

POLS 465 3 OR 4 hrs.
Topics in Sociology of Politics

Intensive examination of a specialized topic announced when the class is scheduled. **Same as** SOC 465. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

POLS 467 3 OR 4 hrs.
Public Opinion and Political Communication

Nature of public opinion and political communication systems. Patterns of opinion distribution and its measurement. Forces shaping public opinion and its impact on public policy. **Same as** COMM 467. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POLS 200 or the equivalent or consent of the instructor.

POLS 482 3 OR 4 hrs.
Democratic Theory

Democracy as a procedure of government and value commitments associated with this form of government. Special attention paid to classical and modern democracies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POLS 290 or POLS 291 or consent of the instructor.

POLS 485 3 OR 4 hrs.
Gender and Politics

Impact of gender on basic categories of western political thought. Distinctions between reason and emotion, public and private, among others, examined from feminist perspective. **Same as** GWS 485. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** POLS 190 and one 200-level course in political theory; or consent of the instructor.

POLS 494 3 OR 4 hrs.
Topics in Political Science

Selected topics in political science. Topics vary and may cover American politics, law, urban and global politics, cultural, ecological, or methodological issues. May be repeated up to 1 time. **Prerequisite(s):** POLS 190 and POLS 200; or consent of the instructor.

Portuguese

PORT 240 4 hrs.
Rapid Portuguese for Romance Language Speakers I

Characteristics of Portuguese grammar from the perspective of Romance languages speakers, leading to basic conversational skills in Portuguese.

Prerequisite(s): SPAN 202 or ITAL 201 or FR 232; or consent of the instructor.

PORT 241 4 hrs.
Rapid Portuguese for Romance Language Speakers II

Characteristics of Portuguese grammar from the perspective of speakers of a Romance language, leading to intermediate to advanced conversational and reading skills in Portuguese.

Prerequisite(s): Grade of C or better in PORT 240; and sophomore standing or above; or consent of the instructor.

Psychology

PSCH 100 4 hrs.
Introduction to Psychology

Survey of basic concepts of contemporary psychology. Introduction to the nervous system, perception, motivation, learning and memory, social behavior, personality, developmental, and clinical psychology. Students under 18 years of age need parental consent to participate in research experiments that are part of the course.

Instructions for obtaining parental consent will be provided during class early in the semester. *Individual and Society course.*

PSCH 201 3 hrs.
The Psychology of African Americans

Historical analysis of various psychological approaches to the African American experience and identity. Special attention to development of African American psychology as a disciplinary orientation. **Same as** AAST 201. **Prerequisite(s):** PSCH 100 or consent of the instructor. *Individual and Society, and U.S. Society course.*

PSCH 202 3 hrs.
African American Behavioral Patterns

Formal theories on personality in terms of interdependence between personal characteristics, African American culture, and oppression; social-psychological aspects of black identity and interpersonal behavior. **Same as** AAST 202. **Prerequisite(s):**

PSCH 100 or consent of the instructor. **Recommended background:** Credit in AAST 201. *Individual and Society, and U.S. Society course.*

PSCH 210 3 hrs.
Theories of Personality

Survey of major theoretical approaches to the study of personality and the evidential basis underlying each approach.

Prerequisite(s): PSCH 100. *Individual and Society course.*

PSCH 231 3 hrs.
Community Psychology

Psychological principles, research and interventions concerning community settings; community human services, primary prevention, consultation, advocacy, social ecology, organizational change, and citizen participation.

Prerequisite(s): PSCH 100. *Individual and Society course.*

PSCH 242 3 hrs.
Introduction to Research in Psychology

Techniques and problems associated with the study of behavior. Emphasis on measurement, descriptive statistics, and the principles of experimental design. Exercises involving data collection. Participation in research. **Prerequisite(s):** Grade of C or better in PSCH 100.

PSCH 262 3 hrs.
Physiological Psychology

Research and theories concerning the physiological bases of behavior. Understanding of basic brain organization with emphasis on neural substrates of learning, motivation and perception.

Prerequisite(s): PSCH 100.

PSCH 270 3 hrs.
Abnormal Psychology

A survey course covering the assessment, description, causes, and treatments of many psychological disorders, including depression, anxiety disorders, psychosis, sexual dysfunction, and personality disorders.

Prerequisite(s): PSCH 100. *Individual and Society course.*

PSCH 303 3 hrs.
Writing in Psychology

Teaches students the fundamentals of scientific writing including literature reviews, research reports and book reviews. Students will write a minimum of three papers dealing with psychological topics.

Prerequisite(s): PSCH 242 and ENGL 161 with a minimum grade of C; MATH 118 (or the equivalent) with a minimum grade of C or MATH 090; or consent of the instructor. For psychology majors only.

PSCH 305 3 hrs.
History of Psychology

The history of scientific psychology with emphasis on forerunners of modern psychological issues. **Prerequisite(s):** 15 hours in psychology.

PSCH 312 3 hrs.
Social Psychology
 Survey of theory and research in social psychology, emphasizing experimental investigations of attitudes and social cognition, and interpersonal relations and group processes. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 313 3 hrs.
Laboratory in Social Psychology
 Conduct laboratory and field experiments in social psychology on problems in attitudes and social cognition, and interpersonal relations and group processes. **Prerequisite(s):** PSCH 343 and credit or concurrent registration in PSCH 312.

PSCH 315 3 hrs.
Psychology of Women and Gender
 Critical examination of research on women and gender across the life span, including psychological aspects of reproduction, and the way that gender shapes cognition, sexuality, family, friendship, and work experiences. **Same as GWS 315. Prerequisite(s):** Grade of C or better in PSCH 242 or consent of the instructor.

PSCH 320 3 hrs.
Developmental Psychology
 Analysis of research and theory concerning social, cognitive, and biopsychological aspects of human development. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 321 3 hrs.
Laboratory in Developmental Psychology
 Survey of dominant research strategies in contemporary developmental psychology. Laboratory experience in developmental research. **Prerequisite(s):** PSCH 343 and credit or concurrent registration in PSCH 320.

PSCH 330 3 hrs.
Industrial and Organizational Psychology
 The application of psychological principles and methods to problems and issues in work organizations. Employee selection, decision making, performance appraisal, group dynamics, leadership, job design. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 331 3 hrs.
Laboratory in Community and Prevention Research
 Examines how researchers conceptualize, design, implement, and evaluate school and community programs to enhance competence, promote empowerment, and prevent behavioral problems. **Prerequisite(s):** PSCH 231 and PSCH 343.

PSCH 340 3 hrs.
Psychological Testing
 Introduction to principles of psychological assessment, with an overview of representative techniques. Particular emphasis is placed on objective tests. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 343 4 hrs.
Statistical Methods in Behavioral Science
 Introduction to statistical inference, probability distributions, sampling, hypothesis testing, correlation and analysis of variance. Credit is not given for PSCH 343 if the student has credit for IDS 371. **Prerequisite(s):** PSCH 242 and ENGL 161 with a minimum grade of C; MATH 118 (or the equivalent) with a minimum grade of C or MATH 090; or consent of the instructor. For Psychology majors only.

PSCH 350 3 hrs.
Sensation and Perception
 Survey of theories and empirical findings in the study of sensation and perception. Emphasis on human vision and audition as information processing systems. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 351 3 hrs.
Laboratory in Perception
 Laboratory practicum in sensation and perception. **Prerequisite(s):** PSCH 343, and credit or concurrent registration in PSCH 350.

PSCH 352 3 hrs.
Cognition and Memory
 Survey of experimental findings in human learning, memory, attention, knowledge representation, problem solving, conceptual behavior, and psycholinguistics. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 353 3 hrs.
Laboratory in Cognition and Memory
 Laboratory practicum in memory, psycholinguistics, problem solving, and reasoning. **Prerequisite(s):** PSCH 343, and credit or concurrent registration in PSCH 352.

PSCH 354 3 hrs.
Knowledge Acquisition
 Introduction to belief formation, conceptual change, cognitive development, discovery and invention, schema abstraction, skill acquisition and other cognitive change processes. Research and practical applications. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 360 3 hrs.
Learning and Conditioning
 Principles of learning; emphasis on parameters of acquisition, extinction and retention of classical and instrumental conditioning and stimulus control of reflexive and voluntary behavior. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 361 3 hrs.
Laboratory in Learning and Conditioning
 Laboratory practicum in conditioning and simple learning using animal subjects. Emphasis on operant conditioning. Animals used in instruction. **Prerequisite(s):** PSCH 343 and credit or concurrent registration in PSCH 360.

PSCH 363 3 hrs.
Laboratory in Physiological Psychology
 Laboratory practicum and demonstrations of research techniques used to study the physiological bases of behavior. Animals used in instruction. **Prerequisite(s):** PSCH 343 and credit or concurrent registration in PSCH 262.

PSCH 381 3 hrs.
Psychology of Interviewing
 Theory, research, and practice of interviewing. Emphasis on developing skills for interviewing individuals. **Prerequisite(s):** PSCH 210 or PSCH 231 or PSCH 312; and a grade of C or better in PSCH 242.

PSCH 382 3 hrs.
Psychological Interventions
 Application of psychological theories and principles used in psychotherapy and behavior change. Emphasis will be on models for assessment of change, the evaluation of psychotherapy, and selecting appropriate interventions. **Prerequisite(s):** PSCH 210 or PSCH 231 or PSCH 312; and PSCH 270 and a grade of C or better in PSCH 242.

PSCH 383 3 hrs.
Psychology of Groups
 Application of psychological theory and research to group functioning and change. Survey of intervention methods emphasizing the development of competence in group participation and leadership. **Prerequisite(s):** PSCH 210 or PSCH 231 or PSCH 312; and a grade of C or better in PSCH 242.

PSCH 385 3 hrs.
Fieldwork in Applied Psychology
 Supervised practicum as a paraprofessional worker for a minimum equivalent of one day per week in a mental health, developmental disabilities, or industrial-organizational setting. **Prerequisite(s):** Restricted to the majors in the Applied Concentration of Psychology. Students must have completed PSCH 340 and PSCH 343; and PSCH 330 or PSCH 381 or PSCH 382 or PSCH 383 or PSCH 386.

PSCH 386 3 hrs.
Crisis Counseling Techniques I
 Application of psychological theories and principles used for telephone crisis counseling, crisis intervention, and referral. Emphasis will be on models for interviewing and assessment and appropriate intervention in crisis

situations. **Prerequisite(s):** Grade of C or better in PSCH 242; and PSCH 210 or PSCH 231 or PSCH 270; and consent of the instructor.

PSCH 387 1 hour.
Crisis Counseling Techniques II
 Students will work a minimum of one three-hour evening shift per week conducting telephone crisis interventions. Fieldwork required. **Prerequisite(s):** PSCH 386; and consent of the instructor.

PSCH 394 1–3 hrs.
Special Topics in Psychology
 Lectures devoted to an announced topic. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Grade of C or better in PSCH 242.

PSCH 395 1–3 hrs.
Seminar in Psychology
 Seminar devoted to special topics in psychology. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** PSCH 242.

PSCH 396 1–3 hrs.
Directed Research
 Participation in ongoing research in psychology under the direction of a faculty member. A final report describing the research and its theory is required. Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. A combined maximum of 8 hours of credit in PSCH 387, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. **Prerequisite(s):** Grade of C or better in PSCH 242. Must consult instructor for permission to enroll.

PSCH 397 1–3 hrs.
Readings in Psychology
 Bibliographic research on a special topic under the direction of a faculty member. Paper is required for course credit. May be repeated. Students may register in more than one section per term. A combined maximum of 8 hours of credit in PSCH 387, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. **Prerequisite(s):** PSCH 343 and consent of the instructor. Must consult instructor for permission to enroll.

PSCH 399 1–4 hrs.
Independent Research
Individual research on a special topic under the direction of a faculty member. A paper is required for course credit. May be repeated. Students may register in more than one section per term. A combined maximum of 8 hours of credit in PSCH 387, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree.
Prerequisite(s): PSCH 343; one from PSCH 313, PSCH 321, PSCH 351, PSCH 353, PSCH 361, PSCH 363; a 3.00 grade point average; membership in one of the departmental distinction programs; consent of the instructor and the director of undergraduate studies.

PSCH 411 3 hrs.
Stereotyping, Prejudice, and Racism
Psychological research and theory concerning stereotyping, prejudice, and racism. Historical conceptualization, development, causes, expression, and psychological consequences of prejudice, as well as theories of prejudice reduction. **Prerequisite(s):** Graduate standing in psychology or consent of the instructor.

PSCH 415 3 hrs.
Social Bases of Health Behavior
Psychological theory and research concerning the coronary-prone personality, pain management, controlling adherence to medical regimens, biofeedback, smoking, and weight control. **Prerequisite(s):** PSCH 270 and consent of the instructor, or graduate standing.

PSCH 417 3 hrs.
Psychology and Law
Application of psychological theories to the development, operation and effects of law; evaluation of different and similar approaches of law and psychology. **Prerequisite(s):** PSCH 312 or consent of instructor.

PSCH 420 3 OR 4 hrs.
Social Development of Urban Children
General principles of social development and socialization during childhood and the factors common to urban children that illustrate and modify these principles. **Same as** EPSY 420. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Admission to a graduate program in education or psychology, or consent of the instructor.

PSCH 422 3 hrs.
Advanced Developmental Psychology and Educational Processes
Focuses on cognitive and social development from birth to adolescence. Examines relations between development, learning, and educational processes. **Same as** ED 422. **Prerequisite(s):** PSCH 100 and any one from ED 210, PSCH 259, PSCH 320; or graduate standing and consent of the instructor.

PSCH 423 3 hrs.
Characteristics of Early Adolescence
Physiological, social, emotional, and cognitive development of early adolescence. The relationship between these developmental characteristics and success in the middle grades. **Same as** EPSY 446. **Prerequisite(s):** ED 210 or ED 421 or ED 422 or PSCH 422 or the equivalent, and approval of the College of Education; or admission to the PhD in Psychology program; or consent of the instructor.

PSCH 429 3 OR 4 hrs.
Constructivist Approaches to Development: Piaget and Vygotsky
Piaget's and Vygotsky's theories of development of knowledge. Empirical and logico-mathematical forms of knowledge. Thought and action. Thought and language. **Same as** EPSY 429. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** ED 422 or PSCH 422 or the equivalent and graduate standing in education or graduate standing in psychology or consent of the instructor.

PSCH 443 3 hrs.
Advanced Statistics
Design and analysis of experiments: between, within factorial and mixed factorial designs and introduction to multiple regression. For students planning research careers or advanced degrees. **Prerequisite(s):** PSCH 343.

PSCH 452 3 hrs.
Cognitive Psychology of Memory and Attention
A survey of empirical research and theories concerning the human memory system and the encoding, retention, retrieval of information in that system, and research and theories of attention. **Prerequisite(s):** Graduate standing; or PSCH 352 and consent of the instructor.

PSCH 454 3 hrs.
Cognitive Psychology of Language
Provides students with a survey of methods, theory, and research in language and discourse processing. **Same as** COMM 454 and LING 474. **Prerequisite(s):** Graduate standing or consent of the instructor.

PSCH 455 3 hrs.
Cognitive Psychology of Thinking
Introduces students to research and theory concerning higher mental processes, including problem solving, reasoning, judgment, and decision making. **Prerequisite(s):** Graduate standing; or PSCH 352 and consent of the instructor.

PSCH 457 3 hrs.
Cognitive Psychology of Skill and Knowledge Acquisition
The course approaches learning from a variety of cognitive perspectives. The instruction is organized around discussions of original research articles.

Prerequisite(s): Previous knowledge of cognitive psychology (with at least an undergraduate survey course) or admittance into the Cognitive Division graduate program.

PSCH 459 3 hrs.
Cognitive Methods
Hands-on training in the methods of cognitive psychology, especially computational modeling and the analysis of verbal protocols and other types of trace data. **Prerequisite(s):** Graduate standing or consent of the instructor.

PSCH 460 3 hrs.
Advanced Learning
Methods, results, and interpretation of experimental studies of basic learning processes in animal and human subjects. **Prerequisite(s):** Graduate standing; or PSCH 360 and PSCH 361 and consent of the instructor.

PSCH 462 3 hrs.
Neural Basis of Learning and Memory
Theory and research on the anatomical, electrophysiological, and chemical bases of learning and memory in humans and other animals. **Prerequisite(s):** Graduate standing; or PSCH 262 and consent of the instructor.

PSCH 465 3 hrs.
Neural Basis of Perception
Psychophysical and physiological studies of sensory systems and processes. Primary emphasis on the early processing of visual stimuli. **Prerequisite(s):** Graduate standing; or PSCH 351 and consent of the instructor.

PSCH 466 3 hrs.
Neural Basis of Motivation
Review of empirical data and theories concerning the physiological basis of motivational processes in animals and humans. **Prerequisite(s):** Graduate standing; or PSCH 262 and consent of the instructor.

PSCH 467 3 hrs.
Fundamentals of Neuroscience
Basic principles of neurophysiology and neuropharmacology, including logic bases of nerve action, chemistry of synapses and actions of pharmacological agents. **Prerequisite(s):** PSCH 262 or graduate standing.

PSCH 481 1 hour.
Interviewing
Lecture on the theory and practice of clinical interviewing with supervised experience. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Graduate standing in psychology or consent of the instructor.

PSCH 483 4 hrs.
Neuroanatomy
Organization of the nervous system, with an emphasis on mammals. **Same as** BIOS 483 and NEUS 483. Animals used in instruction. **Prerequisite(s):** BIOS 272 or BIOS 286 or BIOS 325 or PSCH 262; or consent of the instructor.

PSCH 484 3 hrs.
Neuroscience I
Neuroscience as an integrative discipline. Neuroanatomy of vertebrates, neural development, cellular neurobiology, action potential mechanisms, synaptic transmission and neuropharmacology. **Same as** BIOS 484 and PHIL 484. **Prerequisite(s):** BIOS 286 or PSCH 262.

PSCH 485 3 hrs.
Neuroscience II
Intergrative neuroscience, continuation of BIOS/PSCH/PHIL 484. Sensory and motor systems; learning, memory, and language. Pathology of nervous systems. Philosophical perspectives, and modeling. **Same as** BIOS 485 and PHIL 485. **Prerequisite(s):** BIOS 484.

PSCH 494 1–4 hrs.
Special Topics in Psychology
Advanced treatment of an announced topic. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Graduate standing or consent of the instructor.

PSCH 495 1–3 hrs.
Seminar in Psychology
Seminar devoted to special topics in psychology. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 9 hrs. Students may register in more than one section per term. **Prerequisite(s):** Graduate standing or consent of the instructor.

Public Administration

PA 400 3 OR 4 hrs.
Public Administration Theory
PA as a professional and scholarly area of knowledge and practice focusing on administrative reform and its intellectual roots. Politics versus administration, efficiency, effectiveness, representative bureaucracy, and market versus bureaucratic alternatives. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 407 4 hrs.
Data Analysis for Public Administration
Topics and methods of analyzing information relevant to the administration and management of public programs and organizations. Includes causation, univariate statistics, significance testing, correlation, and regression. **Prerequisite(s):** Appropriate score on the department placement test; and graduate standing; or consent of the instructor. Admission to the MPA program or consent of the instructor.

PA 410 3 OR 4 hrs.**Economics for Public Administration and Policy Decisions**

Basic economic tools and methods relevant to public administration and current policy, including opportunity cost, competition versus monopoly, economic efficiency, equity, market failure, public goods, and externalities. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Appropriate score on the department placement test and graduate standing and admission to the MPA program; or consent of the instructor.

PA 415 3 OR 4 hrs.
Organization Theory and Public Management

Theories and concepts of organizational behavior and public management from economics, sociology, and political science. Organizational decision making, bureaucracy, organizational change and learning, public versus private organizations, leadership, and organizational culture. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 460 4 hrs.**Data Management**

Database theory and constructing and managing databases relevant to the operation of government. Utilizes database software and allows students to gain practice with complex database programs and development of a database system. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 461 4 hrs.**Management of Information Technology in Government**

Concepts and methods of planning, implementing, and managing new information technology or modifying existing technology. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 462 4 hrs.**Project Management for Public Managers**

Discusses the theory, principles, tools, and techniques behind solid project management. The Project Management Institute's (PMI) standards for project management will be emphasized throughout the course.

PA 463 4 hrs.**The Internet and Public Administration**

Application of the Internet for public management. Web-based service delivery, online governance, the technological divide, and the changing role of public managers. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 464 4 hrs.**Technology and Innovation Theory**

The course focuses on theories surrounding the creation, development, transfer, and use of technology. **Prerequisite(s):** Admission to the PhD in Public Administration program or consent of the instructor.

PA 465 4 hrs.**Geographic Information Systems for Public Managers**

Individuals completing this course will have an understanding of some fundamental GIS tools and applications as well as the challenges in implementing and sustaining a GIS function in the public setting.

PA 466 4 hrs.**Science, Technology and Public Policy**

This course addresses the relationships between public policy and science and technology in the United States. **Prerequisite(s):** Admission to the PhD in Public Administration program or consent of the instructor.

PA 494 3 OR 4 hrs.**Special Topics in Public Administration**

Consideration of timely or enduring issues in public administration not available in regularly offered courses. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

Religious Studies**RELS 115 3 hrs.****Understanding the Bible as Literature**

A broad overview of various literary genres in the Bible such as origin narrative, historical narrative, poetry, wisdom literature, prophetic/apocalyptic literature, parable, and epistle. **Same as ENGL 115 and JST 115. Creative Arts, Past, and World Cultures course.**

RELS 120 3 hrs.**Catholic Thought: An Introduction**

Introduction to the main topics, interests, and methods of Catholic thought. **Same as CST 120. Past course.**

RELS 124 3 hrs.**Hebrew Bible**

A study of the Five Books of Moses (a.k.a. Torah or Pentateuch) within the contexts of the ancient Near East and biblical literature. **Same as CL 124 and JST 124. Taught in English. Past course.**

RELS 130 3 hrs.**Introduction to Islam**

Introductory study of the religion, culture, and present variety of Islam in Islamic countries and in the West. *World Cultures course.*

RELS 150 3 hrs.**Catholicism in U.S. History**

The Catholic experience in the United States from its colonial origins to the present. **Same as CST 150 and HIST 150. U.S. Society course.**

RELS 193 3 hrs.**The Divine Comedy**

An in-depth study of the *Divine Comedy*, read in English, against the philosophical and theological background of the Middle Ages. **Same as CST 193 and ITAL 193. Taught in English. Creative Arts course.**

RELS 225 3 hrs.**Topics in Muslim-Jewish Relations**

Muslim-Jewish interactions from the rise of Islam until contemporary times, the relationship between Biblical and Qur'anic materials, the Jewish and Islamic interpretive tradition and the legal systems of the two religious traditions. **Same as CL 225 and JST 225.**

RELS 230 3 hrs.**Topics in Islam**

Topics, issues, and methodologies in Islamic studies. May be repeated if topics vary. **Recommended background:** ENGL 160. *World Cultures course.*

RELS 235 3 hrs.**Introduction to Jewish Thought I**

Introduces students to the fundamental Jewish texts, theology, and thought of the Rabbinic period (100CE–900 CE). Topics include: ethics, authority, sexuality, exegesis, and law. **Same as CL 235 and JST 235. Prerequisite(s):** Sophomore standing or above.

RELS 240 3 hrs.**Philosophy and Revelation: Jewish and Christian Perspectives**

Introduction to philosophical ways of addressing the claim that a book (the Bible, the Qur'an) comes from God. Texts by Immanuel Kant, Moses Mendelssohn, and Søren Kierkegaard, among others. Previously listed as RELS 141. **Same as PHIL 240 and JST 240. Prerequisite(s):** Two courses in philosophy or consent of the instructor. *Individual and Society, and World Cultures course.*

RELS 242 3 hrs.**The History of Jewish Biblical Interpretation**

Jewish interpretation of the Hebrew bible. A survey of the span of Jewish history and the wide range of cultural contexts that have impacted the understanding of the Torah. **Same as CL 242 and JST 242. Past course.**

RELS 246 3 hrs.**Sociology of Religion**

Analysis of the structures and functions of religious institutions in modern society. Special attention to the interplay between religion and other social

phenomena, such as economics, politics, and secular culture.

Same as SOC 246. Occasional field trips. **Prerequisite(s):** One social sciences Course Distribution Credit (CDC) course and sophomore standing. *Individual and Society, and U.S. Society course.*

RELS 250 3 hrs.**Eastern and Western Philosophies of Religion**

Eastern and Western philosophies of religion: Hinduism, Buddhism, Judaism, and Christianity. **Same as INST 250. World Cultures course.**

RELS 254 3 hrs.**Prophets in Judaism and Islam**

A cross-cultural survey of prophets. Texts include the Hebrew Bible, the Qur'an and Islamic and Jewish exegetical material. **Same as CL 254 and JST 254. Past course.**

RELS 255 3 hrs.**Religious Diversity: Conceptual and Practical Issues**

The facts of religious diversity and the questions raised by them. Special attention to Catholic Christian perspectives, treating them from secular and other religious perspectives.

RELS 256 3 hrs.**Religious Experiences in American History**

A survey of the varieties of religious experience in American history from the sixteenth to the twentieth centuries, with emphasis on social and cultural consequences. **Same as HIST 256.**

RELS 294 3 hrs.**Topics in Catholic History**

An investigation of the impact of human migration and cultural pluralism on Catholicism and an analysis of the role of the Catholic Church in group relations. Topics will vary. **Same as CST 294 and HIST 294.** May be repeated if topics vary.

RELS 295 3 hrs.**Topics in Catholic Thought**

Critical investigation of a topic or topics central to the development of Catholic thought, carried on by study of its proponents and opponents. Topics will vary. **Same as CST 295.** May be repeated if topics vary.

RELS 311 3 hrs.**Gender and Sexuality in Early Christianity and Judaism**

Examination of the root of contemporary perspectives on gender and sexuality in the early traditions of Judaism and Christianity including the Bible, the Epic of Gilgamesh, the Church Fathers, the Talmud, and legends of the saints. **Same as GWS 311 and JST 311.**

RELS 320 3 hrs.
Major Religious Thinkers
An examination of one or more major/classical thinkers and their writings. May be repeated if topics vary. **Prerequisite(s):** One 100- or 200-level religious studies course.

RELS 330 3 hrs.
The Qur'an
Introduction to the text, history of interpretation, and the significance of the Qur'an. **Prerequisite(s):** Junior standing or above; or consent of the instructor and one 200-level course in Islamic studies.

RELS 343 3 hrs.
Literature and Religion
Studies in the relation of literature to doctrines, imagery, practices, experiences, or history of one or more religious traditions. **Same as ENGL 343.** **Prerequisite(s):** Grade of C or better in ENGL 240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243.

RELS 392 3 hrs.
Major Problems in Religious Studies
In-depth examination of a major topic or problem in religious thought. Topics will vary. May be repeated if topics vary. **Prerequisite(s):** At least one course in religious studies.

RELS 394 3 hrs.
Topics in Catholic History and Culture
Exploration of various topics in Catholic history and culture. **Same as CST 394 and HIST 394.** **Prerequisite(s):** One course in history or Catholic studies; or consent of the instructor.

RELS 399 1-3 hrs.
Independent Study
Selected topics for individual study. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Sophomore standing or above; and consent of the instructor. **Recommended background:** Two courses in religious studies.

RELS 446 3 OR 4 hrs.
Race, Ethnicity, and Gender in American Religion
Religious institutions in the U.S. as a crucible for racial, ethnic, and gender identities, group formation, and intergroup relations; major world religions represented in the U.S. **Same as SOC 446.** 3 undergraduate hrs. **Prerequisite(s):** SOC 100 and junior standing or above; or consent of instructor.

RELS 478 3 OR 4 hrs.
The Bible as Literature
Literary analysis of the English Bible (including the Apocrypha) in its historical and religious contexts; study of the King James Version and successive revisions of it. **Same as ENGL 478 and JST 478.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in ENGL

240; and grade of C or better in ENGL 241 or grade of C or better in ENGL 242 or grade of C or better in ENGL 243; or consent of the instructor.

RELS 495 3 OR 4 hrs.
Topics in Religious History
Specific topics are announced each term. **Same as HIST 495.** 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or consent of the instructor.

Russian

RUSS 101 4 hrs.
Elementary Russian I
Phonetics, introductory grammar, and reading. Four additional half hours each week in the language laboratory. **Prerequisite(s):** For students who have had no formal work in Russian.

RUSS 102 4 hrs.
Elementary Russian II
Continues RUSS 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** RUSS 101 or the equivalent.

RUSS 103 4 hrs.
Intermediate Russian I
Continues RUSS 102. Four additional half hours each week in the language laboratory. **Prerequisite(s):** RUSS 102 or the equivalent.

RUSS 104 4 hrs.
Intermediate Russian II
Continues RUSS 103. Four additional half hours each week in the language laboratory. **Prerequisite(s):** RUSS 103 or the equivalent.

RUSS 115 3 hrs.
Russian Culture Before the Revolution
The main trends of Russian thought and manners from the beginning to the Revolution: literature, philosophy, religion, art, architecture, intellectual life. Audiovisual emphasis. *World Cultures course.*

RUSS 116 3 hrs.
Russian Culture: The Soviet Period
The transformation of Russian culture after 1917: literature, art, architecture, philosophy, intellectual trends; emphasis on the ideology of Socialist Realism. Audiovisual emphasis. *World Cultures course.*

RUSS 120 3 hrs.
The Russian Short Story in Translation
Introduction to important Russian short stories of the nineteenth and twentieth centuries; the elements of fiction; close analysis of literary texts. *Creative Arts, and World Cultures course.*

RUSS 130 3 hrs.
Masterpieces of Russian Literature in Translation
Introduction to Russian novellas and novels of the nineteenth and twentieth centuries. *Creative Arts, and World Cultures course.*

RUSS 150 3 hrs.
Introduction to Russian Cinema
Introduction to major themes, trends, and techniques of Russian/Soviet cinema. Explores film as an expression of social reality and political ideology. Comparisons drawn with American cinema. Taught in English. Films screened with English subtitles. *Creative Arts, and World Cultures course.*

RUSS 241 3 hrs.
Dostoyevsky
Selected short stories and novels. Taught in English. *Creative Arts course.*

RUSS 242 3 hrs.
Tolstoy
Discussion of selected short stories and plays. Taught in English. *Creative Arts course.*

RUSS 244 3 hrs.
Women in Russian Literature
Major works by and about women in Russian literature: experiences of women and societal attitudes toward them. **Same as GWS 244.** Taught in English. *Creative Arts, and World Cultures course.*

RUSS 301 3 hrs.
Russian Composition and Conversation I
Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. **Prerequisite(s):** RUSS 104 or the equivalent.

RUSS 302 3 hrs.
Russian Composition and Conversation II
Continues RUSS 301. **Prerequisite(s):** RUSS 301 or the equivalent.

RUSS 321 3 hrs.
Introduction to Russian Literature I
Literature of the nineteenth century. Taught in English. **Prerequisite(s):** Junior standing or consent of the instructor.

RUSS 322 3 hrs.
Introduction to Russian Literature II
Literature of the twentieth century. Taught in English. **Prerequisite(s):** Junior standing or RUSS 321 or consent of the instructor.

RUSS 399 1-3 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Junior standing, consent of the instructor and the head of the department.

RUSS 401 3 OR 4 hrs.
Russian Composition and Conversation III
Oral presentations, compositions, conversation: daily life and current events. Problems of grammar and syntax. Improving pronunciation and intonation. Reading. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** RUSS 302 or the equivalent.

RUSS 402 3 OR 4 hrs.
Russian Composition and Conversation IV
Continuation of RUSS 401. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** RUSS 401 or the equivalent.

RUSS 410 3 OR 4 hrs.
Structure of Modern Russian
A synchronic linguistic analysis of Russian substantives, adjectives, pronouns, verbs, deverbal nouns, and minor parts of speech from a syntagmatic and paradigmatic point of view. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** At least 4 semester hours of Russian or the equivalent.

RUSS 450 3 OR 4 hrs.
Studies in the Russian Novel
Study of a major novelist, movement, or special themes. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** 24 hours of Russian or consent of the instructor.

RUSS 460 3 OR 4 hrs.
Studies in Russian Literature
Study of a major author, movement, genre, or special topic. Content varies. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** 24 hours of Russian or consent of the instructor.

RUSS 499 1-4 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hrs. Graduate students may register for more than one section per term. **Prerequisite(s):** Senior or graduate standing, consent of the instructor and the head of the department.

Slavic and Baltic Languages and Literatures

SLAV 101 4 hrs.
Elementary Serbian I
Phonetics, introductory grammar and reading. Four additional half hours each week in the language laboratory. **Prerequisite(s):** For students who have had no formal work in Serbian.

SLAV 102 4 hrs.
Elementary Serbian II
Continues SLAV 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** SLAV 101 or the equivalent.

SLAV 103 4 hrs.
Intermediate Serbian I
Continues SLAV 102.
Prerequisite(s): SLAV 102 or the equivalent.

SLAV 104 4 hrs.
Intermediate Serbian II
Continues SLAV 103.
Prerequisite(s): SLAV 103 or the equivalent.

SLAV 111 4 hrs.
Elementary Ukrainian I
Phonetics, introductory grammar, and reading. Four additional half hours each week in the language laboratory. **Prerequisite(s):** For students who have had no formal work in Ukrainian.

SLAV 112 4 hrs.
Elementary Ukrainian II
Continues SLAV 111. Four additional half hours each week in the language laboratory.
Prerequisite(s): SLAV 111 or the equivalent.

SLAV 113 4 hrs.
Intermediate Ukrainian I
Continues SLAV 112. Four additional half hours each week in the language laboratory.
Prerequisite(s): SLAV 112 or the equivalent.

SLAV 114 4 hrs.
Intermediate Ukrainian II
Continues SLAV 113. Four additional half hours each week in the language laboratory.
Prerequisite(s): SLAV 113 or the equivalent.

SLAV 115 3 hrs.
Serbian Culture
Development of Serbian culture and thought from earliest times to the present: intellectual currents, art, architecture, literary landmarks, traditional ethics, and society. *World Cultures course.*

SLAV 116 3 hrs.
Old Slavic and Ukrainian Folklore and Mythology
The mythology and folklore of the Ukrainian culture and its close interrelationship with other Old Slavic mythologies and folklores. *World Cultures course.*

SLAV 219 3 hrs.
Serbian Folklore and Folk Mythology
Serbian folk tales, epic and lyric poetry, and related traditional beliefs, customs and ethical norms. Taught in English. *World Cultures course.*

SLAV 222 3 hrs.
Modern Serbian Literature
Serbian literature of the nineteenth and twentieth centuries.
Prerequisite(s): Sophomore standing or consent of the instructor. *Creative Arts, and World Cultures course.*

SLAV 301 3 hrs.
Serbian Composition and Conversation I
Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. **Prerequisite(s):** SLAV 104 or the equivalent.

SLAV 302 3 hrs.
Serbian Composition and Conversation II
Continues SLAV 301.
Prerequisite(s): SLAV 301 or the equivalent.

SLAV 324 3 hrs.
Writing About Literature
Content and form of literary essay. Selected Slavic literary masterworks analyzed from ethical, structural, historical/sociological and psychological points of view.
Prerequisite(s): Junior standing.

SLAV 399 1–3 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Junior standing, consent of the instructor and the head of the department.

SLAV 405 3 OR 4 hrs.
Problems in Slavic Grammars
Systematic review of important topics in grammar and syntax. Content varies. Required for department undergraduate majors in Slavic programs. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** RUSS 302 or POL 302 or SLAV 302 or the equivalent.

SLAV 410 3 OR 4 hrs.
Structure of Modern Serbian
A synchronic linguistic analysis of Serbian phonology and morphology, with fundamentals of syntax. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SLAV 104 or the equivalent or consent of the instructor.

SLAV 460 3 OR 4 hrs.
Studies in East European Literatures and Culture
Study of a topic, author, genre, or movement. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** 24 hours of Slavic or Baltic or consent of the instructor.

SLAV 470 6 hrs.
Educational Practice with Seminar I
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

SLAV 471 6 hrs.
Educational Practice with Seminar II
The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department.
Prerequisite(s): Good academic standing in a teacher education

program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in SLAV 470, and approval of the department.

SLAV 499 1–4 hrs.
Independent Study
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hrs. Graduate students may register for more than one section per term.
Prerequisite(s): Senior or graduate standing, consent of the instructor and the head of the department.

Sociology

SOC 100 3 hrs.
Introduction to Sociology
Analysis of human societies, organizations and groups, and the interrelations among individuals, groups, and societies. *Individual and Society, and U.S. Society course.*

SOC 105 3 hrs.
Social Problems
Contemporary social problems examined from the perspectives of social institutions, culture, inequality, organizations and groups, political and economic structure, social change, and social policy. May be substituted for SOC 100 as a prerequisite for other sociology courses. *Individual and Society, and U.S. Society course.*

SOC 125 3 hrs.
Introduction to Asian American Studies
Overview of Asian American experiences and perspectives in sociohistorical context. Introduction to major concepts, issues, and debates in the field of Asian American Studies. **Same as** ASAM 125 and ENGL 125. *Individual and Society, and U.S. Society course.*

SOC 201 4 hrs.
Introductory Sociological Statistics
An introduction to the basic statistical methods used in the analysis of sociological data. 3 hours of lecture and 2 hours of laboratory per week. **Prerequisite(s):** SOC 100 or SOC 105; and either MATH 090 or MATH 092 or MATH 118 or the equivalent or consent of the instructor.

SOC 203 3 hrs.
The African American Family in the United States
Examination of the structure and functioning of the African American family. Historical and contemporary analyses. **Same as** AAST 203. **Prerequisite(s):** AAST 100 or SOC 100 or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 212 3 hrs.
Human Sexuality: Social Perspectives
Historical and cultural perspectives on contemporary American

sexuality; knowledge, attitudes, and practices; sexuality over the life cycle, socialization; affection, interpersonal attraction; marriage, law, other institutions.
Prerequisite(s): SOC 100.

SOC 215 3 hrs.
Sociology of Childhood and Youth
Explores the meanings and social position of children and youth in society and examines how contemporary ideas about these categories emerged. **Prerequisite(s):** SOC 100 or SOC 105; or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 224 3 hrs.
Gender and Society
Sociological perspectives on gender as a factor in social stratification; gender role acquisition; individual and social consequences of changing social definitions of gender roles. **Same as** GWS 224. **Prerequisite(s):** SOC 100 or GWS 101 or GWS 102. *Individual and Society, and U.S. Society course.*

SOC 225 3 hrs.
Racial and Ethnic Groups
Sociological and social-psychological analysis of racial, religious, and other ethnic groups; consideration of historical and current social problems arising from their relationships in society. **Same as** AAST 225 and LALS 225. **Prerequisite(s):** SOC 100; or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 226 3 hrs.
Latinas in the United States
Socioeconomic conditions and cultural experiences of Latinas in the U.S. Historical and contemporary views of labor, health, education, family, identity formation, and leadership. **Same as** GWS 276 and LALS 276.

SOC 228 3 hrs.
Sociology of Asia and Asian Americans
Asian and Asian American culture, institutions, and organization; immigration, population, settlement patterns; occupations and poverty; family and ethnic identification; inequality and politics; values, prejudice, discrimination. **Same as** ASAM 228 and ASST 228. **Prerequisite(s):** SOC 100. *Individual and Society, and U.S. Society course.*

SOC 229 3 hrs.
Sociology of Latinos
Examines social, political, and economic issues affecting Latino groups. While focusing on the process of racialization, the course also examines immigration, language rights, gender and sexuality, labor market, media, and youth. **Same as** LALS 229. **Prerequisite(s):** SOC 100 or LALS 102 or SOC 105 or LALS 103; or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 231 3 hrs.
Criminology
 Introductory survey of the literature developed by criminologists in their study of crime in American society. **Same as** CLJ 220. **Prerequisite(s):** CLJ 101.

SOC 241 3 hrs.
Social Inequalities
 Dimensions of inequality: economy, education, housing, health-care; power, status and self-esteem; inequality, and social policy. **Prerequisite(s):** SOC 100. *Individual and Society, and U.S. Society course.*

SOC 244 3 hrs.
Sociology of Work
 Impact of bureaucracy, technology, and automation; changing composition of labor force: women, youth, elderly, racial and ethnic minorities; international comparisons; policy implications. **Prerequisite(s):** SOC 100 or SOC 105; or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 245 3 hrs.
Marriage and Family
 The family as an interactional system, an organization, and a social institution; extended family ties, mate selection, marital roles, socialization, marital dissolution, family life course and change. **Prerequisite(s):** SOC 100. *Individual and Society, and U.S. Society course.*

SOC 246 3 hrs.
Sociology of Religion
 Analysis of the structures and functions of religious institutions in modern society. Special attention to the interplay between religion and other social phenomena, such as economics, politics, and secular culture. **Same as** RELS 246. Occasional field trips. **Prerequisite(s):** One social sciences Course Distribution Credit (CDC) course and sophomore standing. *Individual and Society, and U.S. Society course.*

SOC 251 3 hrs.
Health and Medicine
 Healthcare systems; special emphasis on United States; dimensions of wellness and sickness including mental health; health providers, organizations, and institutions and their relations. **Prerequisite(s):** SOC 100 or SOC 105; or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 258 3 hrs.
Race and Urban Life
 Examines the experiences of Blacks in urban areas since the 1900s. **Same as** AAST 258.

SOC 265 3 hrs.
Sociology of Politics
 The exercise of power and power structures; alternative political systems; relationship between state and society; political attitudes, participation, and organizations; political change, reform, and revolution. **Prerequisite(s):** SOC 100. *Individual and Society course.*

SOC 268 3 hrs.
Introduction to Comparative Sociology
 Comparisons of population, culture, economics, politics, and social relations among contemporary societies. Relations among institutional areas and among societies. **Prerequisite(s):** 3 hours of social science courses. *Individual and Society, and World Cultures course.*

SOC 271 3 hrs.
African Americans and the Politics of Incarceration
 Examination of the status of African Americans as offenders, victims, and personnel within the criminal justice system. **Same as** AAST 271 and CLJ 271. Previously listed as SOC 371. **Prerequisite(s):** AAST 100 or CLJ 101 or SOC 100; or consent of the instructor. *Individual and Society, and U.S. Society course.*

SOC 276 3 hrs.
Urban Sociology
 Examination of the history, patterns, and consequences of urban places and life in those places. **Prerequisite(s):** SOC 100. *Individual and Society, and U.S. Society course.*

SOC 296 1–3 hrs.
Supervised Study or Research
 Special projects arranged in advance by faculty or student initiative. May be repeated to a maximum of 9 hours with approval. Students may register in more than one section per term. Approval to repeat course granted by the department. **Prerequisite(s):** 9 hours of sociology, consent of the instructor, and approval of the department prior to registration.

SOC 298 3 hrs.
Internship in Sociological Applications
 Placement in a university or external organization where students participate in a project using sociological skills under the direction of a field supervisor. **Prerequisite(s):** SOC 201 and SOC 202; and approval of the department.

SOC 300 4 hrs.
Introduction to Sociological Research Methods
 Survey of the principal methods of social research; problem and concept formation, research design, sampling reliability, internal and external validity, control of alternative explanations, ethical responsibilities of researchers. Previously listed as SOC 202. **Prerequisite(s):** SOC 201; and sophomore standing or above; or SOC 201 and one additional 200-level course in sociology.

SOC 385 3 hrs.
Introduction to Sociological Theory
 A survey of the major approaches to explaining social phenomena drawn from representative nineteenth- and twentieth-century social theorists. Emphasis on present-day applicability of these approaches. **Prerequisite(s):**

Sophomore standing or above and two 200- or 300- level elective courses in sociology or consent of the instructor.

SOC 401 4 hrs.
Sociological Statistics
 Descriptive and inferential statistics for graduate and advanced undergraduate sociology majors and related fields. Tests of means, regression, correlation, analysis of variance, and related topics. **Prerequisite(s):** SOC 201 and two additional 200-level sociology electives; or graduate standing or consent of the instructor.

SOC 402 4 hrs.
Intermediate Sociological Statistics
 Covers general linear models emphasizing regression, analysis of variance and covariance, simple structural equation models, simple categorical methods, and elementary matrix algebra. **Prerequisite(s):** SOC 401.

SOC 405 3 OR 4 hrs.
Writing in the Social Sciences
 Leads to effective, clear writing for a social science audience. Teaches how to organize ideas, avoid tiresome jargon, and write with precision. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** 6 hours of upper-division social science courses.

SOC 406 3 OR 4 hrs.
Urban Ethnography
 The study of processes and meanings in African American communities in urban areas, interviews, participant observation, focus groups. **Same as** AAST 405. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** AAST 100; and junior standing or above.

SOC 407 3 OR 4 hrs.
Seminar in Comparative Racialization
 Provides an interdisciplinary and comparative approach to the making and remaking of "race" and the resultant racialized experiences of different groups in the U.S. and globally. **Same as** AAST 407. **Prerequisite(s):** AAST 247 or AAST 248 or AAST 340 or SOC 225; and senior standing or above; or consent of the instructor.

SOC 424 3 OR 4 hrs.
Sociology of Gender
 Variety and change in gender roles; patterns and consequences of gender inequality; gender and sexuality; gender and social institutions such as family, economy. **Same as** GWS 425. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 224, or any 100- or 200-level GWS course and an additional 200- or 300-level elective in sociology or gender and women's studies; junior standing or above; or graduate standing; or consent of the instructor.

SOC 425 3 OR 4 hrs.
Race and Ethnicity
 Critical examination of the conceptual frameworks and empirical findings in the study of race and ethnicity. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 225 an additional 200- or 300-level elective in sociology; or consent of the instructor.

SOC 426 3 OR 4 hrs.
Topics in Race, Ethnicity, and Gender
 Intensive examination of a specialized topic in race, ethnicity, and gender. The specific topic of the course varies depending on the faculty offering it. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register in more than one section per term. **Prerequisite(s):** SOC 224; or SOC 225; and junior standing or above and an additional 200- or 300-level elective in sociology; or consent of the instructor.

SOC 428 3 OR 4 hrs.
Asian/Asian American Women in the Global Economy
 Examines the racialization and feminization of a global division of labor and focuses primarily on Asian and Asian American women's participation and incorporation as workers and key actors in the development of the global economy. **Same as** ASAM 428 and GWS 428. 3 undergraduate hours; 4 graduate hrs. **Prerequisite(s):** ASAM 125 or ENGL 125 or SOC 125 or AAST 225 or LALS 225 or SOC 225 or ASAM 228 or ASST 228 or SOC 228 or ASAM 290 or two 200-level courses in either SOC, GWS or ASAM, or a combination of these.

SOC 440 3 OR 4 hrs.
Topics in Organizations and Institutions
 Intensive examination of a specialized topic announced when the class is scheduled. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). Students may register in more than one section per term. **Prerequisite(s):** SOC 244 or MGMT 340, and an additional 200-level sociology elective, and junior standing; or consent of the instructor.

SOC 441 3 OR 4 hrs.
Social Stratification
 The nature of systems of differentiation and ranking in societies and their consequences; emphasis on class structure in the United States; prestige, status, power, and social mobility in the United States and other societies. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 241 and an additional 200- or 300-level elective in sociology; and junior standing or above; or consent of the instructor.

SOC 445 3 OR 4 hrs.
Sociology of the Family
Variety and change in family patterns; family formation and break-up; parents' and childrens' effects on each other; influences of culture and political economy; consequences for other institutions. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 224, or SOC 245 and an additional 200- or 300-level sociology elective; and junior standing or above; or consent of the instructor.

SOC 446 3 OR 4 hrs.
Race, Ethnicity, and Gender in American Religion
Religious institutions in the U.S. as a crucible for racial, ethnic, and gender identities, group formation, and intergroup relations; major world religions represented in the U.S. **Same as** RELS 446. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 246 and an additional 200- or 300-level elective in sociology; and junior standing or above; or consent of instructor.

SOC 447 3 OR 4 hrs.
Organizations
Characteristics of business, government, and not-for-profit organizations; approaches used to study organizations; theoretical and empirical analysis of organizational processes. **Same as** MGMT 447. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 241 or MGMT 340 or SOC 244 and an additional 200- or 300-level elective in sociology; and junior standing or above; or consent of the instructor.

SOC 448 3 OR 4 hrs.
Sociology of Development
Historical, economic, political, social, and geographic factors shaping national and international development experiences and outcomes. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** 6 hours of upper-division social science courses or consent of the instructor.

SOC 451 3 OR 4 hrs.
Medical Sociology
Survey of major topics in sociology of health and medicine including social definitions of health and illness, patient-practitioner interaction, the organization of health institutions and professions. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 455 3 OR 4 hrs.
Topics in Medical Sociology
Intensive examination of a specialized topic announced when the class is scheduled. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** SOC 451 or consent of the instructor.

SOC 465 3 OR 4 hrs.
Topics in Sociology of Politics
Intensive examination of a specialized topic announced when the class is scheduled. **Same as** POLS 465. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 471 3 OR 4 hrs.
Population
The measurement and study of major trends and differentials in fertility, mortality, migration, growth, and compositional characteristics of the population of the United States and other nations. **Same as** EPID 471. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 201 and an additional 200- or 300-level course in sociology; and junior standing or above; or consent of the instructor.

SOC 473 3 OR 4 hrs.
Cities and Regions
Characteristics, conditions, and consequences of structure and change of cities and metropolitan regions. Spatial, political economy, cultural perspectives. Census, ecological, historical, comparative data for cities. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 201 and an additional 200 or 300-level course in sociology; and junior standing or above; or consent of the instructor.

SOC 476 3 OR 4 hrs.
Topics in Urban Sociology
Intensive examination of a specialized topic announced when the class is scheduled. 3 undergraduate hrs. 4 graduate hrs. May be repeated to a maximum of 12 hrs. Students may register in more than one section per term. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 485 3 OR 4 hrs.
Classical Social Theory
Survey and analysis of classical European and American social theory. Examination of how theorists such as Marx, Weber, Durkheim, Veblen and Park defined and described society within their own social contexts and how we derive meaning from these theories. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 385; and senior standing or above; or consent of the instructor.

SOC 487 3 OR 4 hrs.
Current Social Theory
Review and evaluation of major currents in sociological theory since the 1940s. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SOC 385; and senior standing or above; or consent of the instructor.

SOC 490 4 hrs.
Senior Research Experience
The course integrates theory, methods and analytical skills to a substantive area of sociology. Students will gain hands-on experience by collecting data, analyzing data, writing up their findings, and presenting their projects to the class. May be repeated to a maximum of 8 hours, with approval of the department. Students may register for more than one section per term. Previously listed at SOC 400. **Prerequisite(s):** SOC 300 and SOC 385; and senior standing or above and one 400-level elective in sociology and consent of the instructor.

SOC 496 1-9 hrs.
Independent Study or Research
Extensive readings in specialized areas of sociology or empirical research for advanced undergraduate or graduate students. May be repeated with approval. Students may register in more than one section per term. Approval to repeat course granted by the department. Undergraduate students may repeat course for maximum of 9 hours of credit. **Prerequisite(s):** 18 hours of sociology, excluding SOC 296 and SOC 299, consent of the instructor, and approval of the department.

SOC 499 1-4 hrs.
Senior Thesis
Individual study for students working on a senior thesis under the supervision of a faculty advisor. This course is required for students graduating with highest departmental distinction. May be repeated to a maximum of 8 hours, with approval of the department. Students may register for more than one section per term. Previously listed as SOC 299. **Prerequisite(s):** SOC 490; and senior standing or above; and consent of the instructor.

Spanish

SPAN 101 4 hrs.
Elementary Spanish I
Beginning communication skills in Spanish and introduction to the cultures of the Spanish-speaking world in a technology-enhanced course. Credit is not given for SPAN 101 if the student has credit for SPAN 110. For students who have never studied Spanish. See departmental Web site for placement information. Use of a computer and Internet access are required. This course requires students to complete approximately eight hours of online materials per week. A high-speed connection, while not required, is strongly suggested.

SPAN 102 4 hrs.
Elementary Spanish II
Continuation of SPAN 101. Credit is not given for SPAN 102 if the student has credit for SPAN 110. For students who have never

studied Spanish. See departmental Web site for placement information. Use of a computer and Internet access are required. This course requires students to complete approximately eight hours of online materials per week. A high-speed connection, while not required, is strongly suggested. **Prerequisite(s):** SPAN 101 or the equivalent.

SPAN 103 4 hrs.
Elementary Spanish III
Continuation of SPAN 102. See departmental Web site for placement information. Use of a computer and Internet access required. This course requires students to complete approximately eight hours of online materials per week. A high-speed connection, while not required, is strongly suggested. **Prerequisite(s):** SPAN 102 or SPAN 110 and placement by the department.

SPAN 104 4 hrs.
Topics in Spanish Language and Culture
Can be used to complete the fourth semester requirement in Spanish. Students work with short literary and cultural readings in Spanish and review some specific grammatical concepts. See departmental Web site for placement information. Use of a computer and Internet access are required. This course requires students to complete approximately eight hours of online materials per week. A high-speed connection, while not required, is strongly suggested. **Prerequisite(s):** SPAN 103 and appropriate score on the department placement test or placement by department.

SPAN 113 4 hrs.
Spanish for Bilinguals I
Introduction to formal written Spanish, grammar, and reading for students who already possess basic to intermediate communicative skills in the language. Emphasis on writing and vocabulary building. This is a blended-online and classroom course. Use of a computer and Internet access is required. A high-speed connection, while not required, is strongly suggested. **Prerequisite(s):** Placement by the department.

SPAN 114 4 hrs.
Spanish for Bilinguals II
Formal written Spanish, grammar, and reading for students who already possess advanced communicative skills in the language. Continuation of Spanish 113. Increased emphasis on composition and reading ability. This is a blended-online and classroom course. Use of a computer and Internet access is required. A high-speed connection, while not required, is strongly suggested. **Prerequisite(s):** SPAN 113 or placement by the department.

SPAN 192 3 hrs.
From the Convent to the Streets: Latin American Women Writers in Translation
 Introduction to literature by Latin American women from the seventeenth century to the present. Focus on the role literature has played in the negotiation of gender identities in the private and the public spheres. **Same as** GWS 192 and LALS 192. No credit toward any major or minor program in Spanish. Taught in English. *Individual and Society, and World Cultures course.*

SPAN 196 3 hrs.
Totalitarianism, Writing, and Cinema
 An introduction to French, Spanish, and Italian writing and films dealing with the issue of totalitarianism. Various authors are examined within a broad context of European thinking on totalitarianism. **Same as** FR 196 and ITAL 196. Taught in English. Two additional hours for viewing films (every two weeks). **Prerequisite(s):** Consent of the instructor.

SPAN 200 3 hrs.
Spanish Conversation and Basic Writing
 Practice of conversational strategies for developing communicative competence in Spanish. Short essay composition for developing writing competence in Spanish. Review of basic grammatical structures. Not open to fluent Spanish speakers. **Prerequisite(s):** Grade of C or better in SPAN 104.

SPAN 202 3 hrs.
Spanish Grammar in Practice
 Reviews basic concepts in Spanish grammar, including verb conjugations, tense, mood, aspect, prepositions, and pronouns. Previously listed as SPAN 305. **Prerequisite(s):** Grade of C or better in SPAN 104 or grade of C or better in SPAN 114; or appropriate score on the department placement test.

SPAN 203 3 hrs.
Extensive Reading and Writing for Nonnative Speakers of Spanish
 Development of linguistic, rhetorical, organizational, and analytical skills in Spanish composition. Development of reading and critical thinking skills in Spanish. Practice of oral skills. Review and practice of grammar. Open only to non-native speakers of Spanish. **Prerequisite(s):** Grade of C or better in SPAN 104; and credit or concurrent registration in SPAN 202; and completion of the University Writing requirement.

SPAN 204 3 hrs.
Extensive Reading and Writing for Heritage Speakers of Spanish
 Development of linguistic, rhetorical, organizational, and analytical skills in Spanish composition. Development of reading and critical thinking

skills in Spanish. Practice of oral skills. Review and practice of grammar. Open only to heritage speakers of Spanish. **Prerequisite(s):** Grade of C or better in SPAN 114; and credit or concurrent registration in SPAN 202; and completion of the University Writing requirement.

SPAN 206 4 hrs.
Introduction to Hispanic Linguistics
 General introduction to the major areas of linguistic analysis: syntax, phonology, meaning and variation. The writing of essays that prepare students for formal research in the field of linguistics. **Prerequisite(s):** Credit or concurrent registration in SPAN 202.

SPAN 210 3 hrs.
Introduction to the Formal Analysis of Hispanic Texts
 Formal and content analysis of Hispanic essays, short stories and novels, poems, and plays. Application of basic literary concepts through the writing of critical and argumentative analysis. **Prerequisite(s):** Credit or concurrent registration in SPAN 203 or credit or concurrent registration in SPAN 204; and completion of the University Writing requirement. *Creative Arts, and World Cultures course.*

SPAN 212 4 hrs.
Cultural and Literary Studies in Spain and Latin America
 Prepares students to examine problems of cultural and literary analysis from a theoretical perspective. It will provide a foundation for the more advanced topic courses at the 300-level. **Prerequisite(s):** Grade of C or better in SPAN 210; and completion of the University Writing requirement; and sophomore standing or above.

SPAN 220 3 hrs.
Spanish for Business and Law I

Introduction to conversation, composition, and grammar, emphasizing usage specific to the areas of business and law. Intended for students who want to acquire basic knowledge of Spanish for the legal and business professions. **Prerequisite(s):** Credit or concurrent registration in SPAN 202; and completion of the University Writing requirement; or approval of the department. **Recommended background:** Grade of C or better or concurrent registration in SPAN 203 or grade of C or better in SPAN 204.

SPAN 221 3 hrs.
Spanish for Health Personnel I

Introduction of Spanish vocabulary and specialized communication skills in the area of the health professions. **Prerequisite(s):** Credit or concurrent registration in SPAN 202; and completion of the University Writing requirement; or approval of the department.

Recommended background: Grade of C or better or concurrent registration in SPAN 203 or grade of C or better or concurrent registration in SPAN 204.

SPAN 224 3 hrs.
Bilingual/Bicultural Hispanic American Writers
 Introduces students to the phenomenon of the bilingual and bicultural Hispanic American writer. Taught in English. **Prerequisite(s):** Completion of the University Writing requirement. *U.S. Society course.*

SPAN 225 3 hrs.
Spanish and Latin American Culture through Literature and Film
 Introduces students to the Hispanic cultures, both Peninsular and Latin American, as represented in literature and film throughout the 20th and 21st centuries. Taught in English. Two hours per week to view films. **Prerequisite(s):** Completion of the University Writing requirement. *World Cultures course.*

SPAN 226 3 hrs.
Early Modern Spanish and Colonial Latin American Literature and Culture in Translation
 Introduces students to a variety of Early Modern Peninsular and Colonial Latin American literary texts and other cultural artifacts in translation. Taught in English. **Prerequisite(s):** Completion of the University Writing requirement. *Creative Arts, and World Cultures course.*

SPAN 228 3 hrs.
Introduction to Translation Theory
 Introduction to the theory of translation and translations of simple texts in both directions: Spanish/English and English/Spanish. **Prerequisite(s):** SPAN 202 and sophomore standing or above; or consent of the instructor.

SPAN 230 3 hrs.
Civilization and Culture of Spain
 Historical, social, and cultural aspects of Spanish civilization. Taught in Spanish. **Prerequisite(s):** Credit or concurrent registration in SPAN 203 or credit or concurrent registration in SPAN 204. *Past, and World Cultures course.*

SPAN 231 3 hrs.
Civilization and Culture of Latin America
 Historical, social, and cultural aspects of Latin American civilization. Taught in Spanish. **Prerequisite(s):** Credit or concurrent registration in SPAN 203 or Credit or concurrent registration in SPAN 204. *Past, and World Cultures course.*

SPAN 278 3 hrs.
Latin American/Latino Film Studies
 Latin American and U.S. Latino film as expressing and impacting socioeconomic, political, ideolog-

ical and literary systems, modes of elite and popular culture, everyday life. **Same as** LALS 278. **Prerequisite(s):** LALS 101 or LALS 102 or LALS 109.

SPAN 295 3 hrs.
Latino Literary Studies
 Major trends, genres, works, themes, and writers related to Latino history and culture, mainstream and minority U.S., Latin American and third world literatures. **Same as** ENGL 295 and LALS 295. *U.S. Society course.*

SPAN 303 3 hrs.
Advanced Oral Presentation, Writing, and Analysis
 Advanced instruction in linguistic, rhetorical, organizational, and analytical skills in Spanish composition. Further development of reading and critical thinking skills in Spanish. **Prerequisite(s):** Grade of C or better in SPAN 203 or grade of C or better in SPAN 204; and completion of the University Writing requirement.

SPAN 320 3 hrs.
Business for Spanish and Law II
 Advanced instruction in conversation, composition, and grammar, emphasizing usage specific to the areas of business and law. **Prerequisite(s):** Grade of C or better in SPAN 220; and completion of the University Writing requirement; and sophomore standing or above. **Recommended background:** Grade of C or better or concurrent registration in SPAN 203 or grade of C or better or concurrent registration in SPAN 204.

SPAN 321 3 hrs.
Spanish for Health Personnel II
 Advanced training in Spanish vocabulary and specialized communication skills in the area of the health professions. **Prerequisite(s):** Grade of C or better in SPAN 221; and sophomore standing or above. **Recommended background:** Grade of C or better or concurrent registration in SPAN 203 or grade of C or better or concurrent registration in SPAN 204.

SPAN 328 3 hrs.
Advanced Translation
 The translation of specialized texts from the source language into the target language. Overview of legal, commercial and health-related vocabulary and concepts. Introduction to the translation of literary texts. **Prerequisite(s):** SPAN 228; and sophomore standing or above; or consent of the instructor. **Recommended background:** Grade of C or better in SPAN 210; or grade of C or better in SPAN 220; or grade of C or better in SPAN 221.

SPAN 360 0–18 hrs.**Study Abroad**

Subjects taken in a variety of areas while studying abroad in Spain, or Central or South America during the student's sophomore, junior or senior year of study at UIC. May be repeated. **Prerequisite(s):** Approval of the Department. **Recommended background:** SPAN 104 or SPAN 114.

SPAN 361 3 hrs.
The Structure of Spanish

Introduction to the syntactic analysis of the Spanish sentence. **Prerequisite(s):** Grade of C or better in SPAN 206; and sophomore standing or above.

SPAN 362 3 hrs.
Sounds of Spanish

Introductory analysis of and practice in the Spanish sound system. Contrastive work in English and Spanish sounds. Laboratory exercises. Previously listed as SPAN 205.

Prerequisite(s): Grade of C or better in SPAN 206; and sophomore standing or above.

SPAN 363 3 hrs.
Spanish in Society

Investigation of the role of language in society or of society in language with a focus on Spanish and issues of Latinos. Sociolinguistics investigates aspects of language structure and use. **Prerequisite(s):** Grade of C or better in SPAN 206; and sophomore standing or above.

SPAN 364 3 hrs.
Acquisition of Spanish

Examination of the psychological and social aspects of the acquisition of Spanish as a first language, a second language, and in bilingual contexts. **Prerequisite(s):** Grade of C or better in SPAN 206; and sophomore standing or above.

SPAN 365 3 hrs.
Meaning in Language

Introduction to the study of meaning in human language. **Prerequisite(s):** Grade of C or better in SPAN 206; and sophomore standing or above.

SPAN 366 3 hrs.
Current Topics in Spanish Linguistics

Topics will reflect the general agenda of linguistics. May cover advanced issues in phonetics or phonology, syntax, semantics or pragmatics, second language acquisition or heritage language instruction. **Prerequisite(s):** Grade of C or better in SPAN 206; and sophomore standing or above.

SPAN 370 1 hour.
Writing and Research in the Major

Perfecting writing and expository skills in English. Required for majors in the department. **Same as** FR 370 and ITAL 370. **Prerequisite(s):** Junior or senior standing and approval of the department.

SPAN 375 3 hrs.
Current Topics in Hispanic Studies

Study of Hispanic literary and/or cultural production focusing on a specific theme, critical approach, or genre-related issue which currently has special relevance within the discipline. **Prerequisite(s):** Grade of C or better in SPAN 212; and completion of the University Writing requirement; and sophomore standing or above.

SPAN 376 3 hrs.
Topics in Politics, the Economy, and Law in Hispanic Culture

Basic introduction to the syntax and rhetoric of legality, order and hierarchy in Spain and/or Latin America as these elements are manifested in literary and cultural texts. **Prerequisite(s):** Grade of C or better in SPAN 212; and completion of the University Writing requirement; and sophomore standing or above.

SPAN 377 3 hrs.
Topics in Health, the Psyche, and the Human Body in Hispanic Culture

Topics will address issues regarding the representation of the body, and different notions of illness and health in Hispanic literature, film, and other media. **Prerequisite(s):** Grade of C or better in SPAN 212; and completion of the University Writing requirement; and sophomore standing or above.

SPAN 378 3 hrs.
Topics in Hispanic Cultural and Media Studies

Studies of transculturation as a guiding principle in the development of Hispanic identities. Exploration of changing definitions of race, nation, immigration, hybridity, and consumption. **Prerequisite(s):** Grade of C or better in SPAN 212; and completion of the University Writing requirement; and sophomore standing or above.

SPAN 379 3 hrs.
Topics in Cultural Difference and the Politics of Translation

Exploration of the ways in which different forms of cultural production participate in the construction and deconstruction of national, regional, class, and gender identities. **Prerequisite(s):** Grade of C or better in SPAN 212; and completion of the University Writing requirement; and sophomore standing or above.

SPAN 380 0 hrs.
Professional Development

Students will be trained in the preparation of resumes, curriculum vitae, and presentation letters for academic and professional settings. Will practice interviewing skills. **Prerequisite(s):** Grade of C or better in SPAN 206 and grade of C or better in SPAN 212. Open only to seniors; or approval of the department with the completion of at least two 300- and/or 400-level Spanish courses, excluding SPAN 320, SPAN 321, and SPAN 360.

SPAN 399 1–3 hrs.
Independent Study

Individual reading or research project under the supervision of a faculty member. May be repeated for a maximum of 6 credit hrs. Students may register for more than one section per term. **Prerequisite(s):** SPAN 206 and 212; and consent of the instructor.

SPAN 400 3 OR 4 hrs.
History of the Spanish Language

Origins and development of Spanish; phonological, morphological, syntactic development of the language; foreign influences; origin of dialects. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 362 or SPAN 401 or consent of the instructor.

SPAN 401 4 hrs.
Intensive Introduction to Hispanic Linguistics

An intensive introduction to phonetics/phonology, syntax, and semantics of Spanish. **Prerequisite(s):** Graduate standing.

SPAN 402 3 OR 4 hrs.
Spanish Syntax

Introduction to the generative approach to Spanish syntax. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 361 or SPAN 401; or consent of the instructor.

SPAN 403 3 OR 4 hrs.
Advanced Spanish Syntax

In-depth examination of current theoretical issues in Spanish syntax. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 402 or consent of the instructor.

SPAN 404 3 OR 4 hrs.
Spanish Phonology and Morphology

Analysis of the phonological and morphological structure of Spanish. Emphasis on the production and mental representation of sounds. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 362 or SPAN 401; or consent of the instructor.

SPAN 405 3 OR 4 hrs.
Advanced Spanish Phonology and Morphology

Advanced and detailed study of the phonological and morphological structure of Spanish. Emphasis on current theories. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 404 or the equivalent or consent of the instructor.

SPAN 406 3 OR 4 hrs.
Spanish Sociolinguistics

Past and current theoretical and empirical sociolinguistics as applied to the study of variation within Spanish and U.S. Hispanic communities. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 402 or SPAN 404 or consent of the instructor.

SPAN 407 3 OR 4 hrs.
Methods of Literary and Cultural Analysis

Introduction to basic tools and critical vocabulary to conduct advanced work in Hispanic literatures. 3 undergraduate hrs. 4 graduate hours. Taught in Spanish or English. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 408 3 OR 4 hrs.
Hispanic Dialectology

Descriptive and historical analysis of the most salient linguistic phenomena of peninsular and American Spanish dialects. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 362 or SPAN 401; or consent of the instructor.

SPAN 409 3 OR 4 hrs.
Semantics and Pragmatics in Spanish

Introduction to the study of meaning in language with a focus on Spanish. Includes formal/compositional semantics and an introduction to pragmatics. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPAN 365 or SPAN 401; or consent of the instructor.

SPAN 411 3 OR 4 hrs.
Topics in Medieval and Early Modern Spanish Literature and Culture

Exploration of topics and theoretical approaches to the literature and culture of medieval and early modern Spain. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above. Completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 414 3 OR 4 hrs.
Topics in Cervantes' Don Quijote

Examination of current critical and theoretical approaches to Cervantes' *Don Quijote*, including questions of gender, class, historiography, and ideology. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 421 3 OR 4 hrs.
Topics in 18th- and 19th-Century Spanish Literature and Culture

Exploration of topics and theoretical approaches to peninsular literature and culture from the Neoclassical period through the Generation of 1898. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 422 3 OR 4 hrs.
Topics in 20th- and 21st-Century Spanish Literature, and Culture

Exploration of topics; sociological and historical approaches to the literature and culture from the vanguard movements of the early 20th century through the present day. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 427 3 OR 4 hrs.
Studies in Language Policy and Cultural Identity

Examines the development, articulation, and effects of language policies on identity formation and culture. Focuses on the United States and the Spanish language, although other countries and languages are included. **Same as** LALS 427. 3 undergraduate hrs. 4 graduate hrs. Taught in English. **Prerequisite(s):** Junior standing or above. Reading and writing knowledge of Spanish.

SPAN 430 3 OR 4 hrs.
Topics in Colonial History, Literature, and Culture

Topics in colonial literature, history and culture intended to introduce students to the main methodologies, paradigms, issues and critical approaches to colonial studies. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 431 3 OR 4 hrs.
Topics in Latin American Letters from the Revolutionary Era to Independence

Nineteenth-century literary trends from the beginnings of the novel through Romanticism and

Realism to Urban Naturalism. Prose and poetry. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary.

Prerequisite(s): Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 434 3 OR 4 hrs.
Topics in Latin American Letters from Modernismo to the Early 1970s

Emergence of new literary and cultural trends from the beginning of the 20th century to the end of the so-called Latin American Boom. It may include fiction, poetry, film, theater, as well as less traditional genres. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 435 3 OR 4 hrs.
Topics in Contemporary Urban Latin American and Latino Culture, Literature, and the Arts

Study of particular cultural, artistic or literary phenomenon in urban Latin American and Latino culture, literature or the arts. Emphasis on cultural studies and/or literary analysis. Critical writing is an important component of the course. 3 undergraduate hrs. 4 graduate hrs. May be repeated if topics vary. **Prerequisite(s):** Junior standing or above and completion of two 300-level courses in Spanish literature; or consent of the instructor.

SPAN 436 1–4 hrs.
Special Topics in the Teaching of Spanish

Course content is announced prior to each term in which course is given. May be repeated. Students may register in more than one section per term. Taught in English. Some semesters, may be taught in Spanish. **Prerequisite(s):** Approval of the department.

SPAN 448 3 OR 4 hrs.
Foundations of Second Language Teaching

Provides an introduction to second language acquisition research and its implications for communicative language teaching. Emphasis is on creating activities to develop high school students' communicative abilities in speaking and listening. **Same as** FR 448 and GER 448. 3 undergraduate hrs. 4 graduate hrs. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor and three courses at the 200- and 300-levels.

SPAN 449 3 OR 4 hrs.
Teaching Second Language Literacy and Cultural Awareness

Examines the nature of literacy as a reciprocal relationship between readers, writers, texts, and culture. Students learn the practical

and theoretical foundations of classroom teaching of second language reading and writing skills. **Same as** FR 449 and GER 449.

3 undergraduate hrs. 4 graduate hrs. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

SPAN 451 6 hrs.
Educational Practice with Seminar I

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

SPAN 452 6 hrs.
Educational Practice with Seminar II

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Graduate credit only with approval of the department. **Prerequisite(s):** Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in SPAN 451, and approval of the department.

SPAN 487 3 OR 4 hrs.
Computer-Assisted Language Learning

An introduction to computer-assisted language learning (CALL): the use of computer technology in second language reading and research. The effectiveness of CALL technology is assessed based on SLA theory and research studies. **Same as** GER 487 and LING 487. 3 undergraduate hrs. 4 graduate hrs. Taught in English. Extensive computer use required. **Prerequisite(s):** LING 483 or CIE 483 or GER 448 or FR 448 or SPAN 448 or GER 449 or FR 449 or SPAN 449; or SPAN 502 or FR 502 or the equivalent; and senior standing or above.

SPAN 494 3 OR 4 hrs.
Special Topics

Topics will vary from term to term and may cover such areas as literary theory or culture. **Same as** FR 494 and ITAL 494. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term. Taught in English. **Prerequisite(s):** Junior standing or above; and approval of the department.

Special Education**SPED 410 3 hrs.**
Survey of Characteristics of Learners with Disabilities

Fulfills requirements for Illinois House Bill 150. Field experience required. Learning and personality characteristics of exceptional learners. Diagnostic processes and educational approaches are examined. **Prerequisite(s):** ED 210 or ED 421 or graduate standing and consent of the instructor.

SPED 415 3 hrs.
Characteristics of Exceptional Learners

Provides a foundation for the understanding of the exceptional learner in an inclusive environment. No graduation credit for students enrolled in a secondary education, social work or any graduate degree program. **Prerequisite(s):** Junior standing or above and admission to the Bachelor of Arts in Elementary Education program or consent of the instructor.

SPED 416 2 hrs.
Methods of Instruction for Exceptional Learners

The purpose of this course is to address issues of instruction for individuals with special needs. Topics include effective instructional and accommodative practices and strategies in multiple areas (math, literacy, science, social studies, art).

Prerequisite(s): Junior standing or above and Admission to the Bachelor of Arts in Elementary Education program. Successful completion of SPED 415.

SPED 423 4 hrs.
Assessment of Monolingual and LEP Children with Disabilities

Psychoeducational assessment of monolingual and limited English proficient children with learning disabilities. First and second language development. Theoretical and practical aspects of measurement and testing. **Prerequisite(s):** Graduate standing; and SPED 410 or the equivalent.

SPED 424 3 OR 4 hrs.
Assessment of Students with Special Needs

Theoretical basis and practical application of standardized and alternative testing of children with learning and behavior difficulties. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPED 410.

SPED 426 3 OR 4 hrs.
Curricular/Behavioral Considerations for Learners with Special Needs

Instructional practices related to academics, classroom management, individualized and group instruction for students with special needs. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPED 424 or the equivalent or consent of the instructor.

SPED 427 4 hrs.
Curricular and Behavioral Considerations for LEP Learners with Special Needs
Exploration of best practice instruction and behavior management for limited English proficient students with learning disabilities, behavioral disabilities, and/or mild cognitive delays.
Prerequisite(s): Graduate standing; and SPED 410 or the equivalent or consent of the instructor.

SPED 442 3 OR 4 hrs.
Language Development and Disorders
Theory and research on the acquisition of phonology, syntax, semantics, and pragmatics in children with and without disabilities. Models for language assessment and intervention. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** SPED 410.

SPED 444 3 hrs.
Assistive Technology for Literacy, Learning, and Participation in Pre-K through High School
Use of communication systems, computers, adapted equipment, and strategies to foster participation and inclusion of students in grades preschool through high school. **Same as** DHD 444.

SPED 448 1–4 hrs.
Topics in Special Education
Course or workshop on preannounced topic on the education of handicapped children, adolescents, or adults. May be repeated. Students may register in more than one section per term.
Prerequisite(s): SPED 410 and consent of the instructor.

SPED 449 3 hrs.
Early Childhood/Early Childhood Special Education: Perspectives, Policies and History
Perspectives, policies, history, and foundations of early childhood education and early childhood special education. Emphasis on the effects of changing economic, political, legal, social, and views of human development. **Same as** EPSY 449 and EDPS 449.

SPED 461 3 hrs.
Political and Sociocultural Perspectives on Special Education
Students will examine issues of access and equity through legislation, litigation, and sociocultural perspectives and be introduced to major theoretical frameworks that influence special education programs. **Same as** ED 461. Fieldwork required.

SPED 462 3 hrs.
Assessment of Individuals with Disabilities
To prepare students in the use of formal and informal assessment in making decisions regarding placement, instructional planning, and evaluation of students with disabilities. Fieldwork required. **Prerequisite(s):** ED 461 or SPED 461 or the equivalent or consent of the instructor.

SPED 463 3 hrs.
Instructional Adaptations in Reading and Writing I
Emphasizes the components of designing, implementing, and assessing reading and writing instruction for individuals with disabilities at the elementary level. Fieldwork required.
Prerequisite(s): ED 461 or SPED 461 or the equivalent or consent of the instructor.

SPED 465 3 hrs.
Cognitive Development and Disabilities
Theory and research on cognitive development in children with disabilities from infancy through adolescence, in the context of typical development. Models for cognitive assessment and intervention. **Same as** EPSY 465. Fieldwork required.
Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

SPED 466 3 hrs.
Language Development, Diversity, and Disabilities
Theory and research on language development in children with disabilities, in the context of typical development. Models for language assessment and intervention. **Same as** EPSY 466. Fieldwork required.
Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

SPED 467 3 hrs.
Social and Emotional Development and Disabilities
Exploration of the risk factors and different theoretical approaches associated with the social and emotional development of youth ages 5–21 with and without disabilities. **Same as** EPSY 467. Fieldwork required.
Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

SPED 471 3 hrs.
Curricular Adaptations for Learners with Significant Disabilities
Addresses methods of instruction, assessment, planning for instruction, development and evaluation of learning environments, and instructional delivery for students with significant disabilities. Fieldwork required.
Prerequisite(s): SPED 465 and SPED 466 and SPED 467; or consent of the instructor.

SPED 472 3 hrs.
Promoting Academic and Prosocial Behavior I
The importance of school-wide and classroom structure and climate in the educational process. Strategies to promote academic success and desired social behavior. **Same as** ED 472. Fieldwork required. **Prerequisite(s):** SPED 461 or ED 461 or the equivalent or consent of the instructor.

SPED 473 3 hrs.
Teaching Math and Science with Adaptations
Provides prospective teachers with assessment strategies and a range of adaptations, modifica-

tions, and interventions in math and science for students with disabilities. **Same as** ED 473. Fieldwork required.
Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

SPED 480 3 OR 4 hrs.
Technology and Multimedia: Learning Tools in the Classroom
New technologies to support teaching and learning in pre-college classrooms. **Same as** CI 480. 3 undergraduate hrs. 4 graduate hrs.

SPED 481 4 hrs.
Theoretical Foundations of Bilingual/ESL Special Education
Overview of historical, political, pedagogical, and theoretical issues involved in the education of students with special learning needs and who are second language learners. **Prerequisite(s):** Graduate standing; and SPED 410 or the equivalent or consent of the instructor.

Statistics

STAT 101 4 hrs.
Introduction to Statistics
Applications of statistics in the real world, displaying and describing data, normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests. Credit is not given for STAT 101 for majors in Mathematics and Computer Science, Mathematics, and Teaching of Mathematics. Extensive computer use required. This course is offered in both a blended and traditional format. If the section is marked "Blended-Online and Classroom," use of a computer and Internet access is required. Blended sections require students to do some of their course work online. A high-speed connection, while not required, is strongly suggested.
Prerequisite(s): Satisfactory grade in MATH 090, or appropriate score on the department placement test, or consent of the instructor.

STAT 381 3 hrs.
Applied Statistical Methods I
Graphical and tabular representation of data; introduction to probability, random variables, sampling distributions, estimation, confidence intervals, and tests of hypotheses. Includes SAS and SPSSX applications.
Prerequisite(s): Grade of C or better in MATH 210.

STAT 401 3 OR 4 hrs.
Introduction to Probability
Probability spaces, random variables and their distributions, conditional distribution and stochastic independence, special distributions, sampling distributions, limit theorems. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Grade of C or better in MATH 210.

STAT 411 3 OR 4 hrs.
Statistical Theory
Estimation, tests of statistical hypotheses, best tests, sufficient statistics, Rao-Cramer inequality, sequential probability ratio tests, the multivariate normal distribution, nonparametric methods. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in STAT 401.

STAT 416 3 OR 4 hrs.
Nonparametric Statistical Methods
Distribution free tests for location and dispersion problems, one-way and two-way layouts, the independence problem, regression problems involving slopes, detecting broad alternatives, resampling methods. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in STAT 381 or STAT 411.

STAT 431 3 OR 4 hrs.
Introduction to Survey Sampling
Simple random sampling; sampling proportions; estimation of sample size; stratified random sampling; ratio estimators; regression estimators; systematic and cluster sampling. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Grade of C or better in STAT 411 or STAT 481.

STAT 461 3 OR 4 hrs.
Applied Probability Models I
Computing probabilities and expectations by conditioning. Markov chains, Chapman-Kolmogorov equations, branching processes, Poisson processes and exponential distribution, continuous-time Markov chains, reversibility, uniformization. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in STAT 401.

STAT 462 3 OR 4 hrs.
Applied Probability Models II
Renewal theory, regenerative processes, semi-Markov processes, queueing theory, exponential models, M/G/1 and G/M/1 systems, reliability, bounds on the reliability function, system life, Brownian motion, stationary processes. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in STAT 461.

STAT 471 3 OR 4 hrs.
Linear and Nonlinear Programming
Linear programming, simplex algorithm, degeneracy, duality theorem sensitivity analysis, convexity, network simplex methods, assignment problems. Constrained and unconstrained minima. Quasi-Newton methods. Ellipsoidal methods of Kachian. 3 undergraduate hrs. 4 graduate hrs.
Prerequisite(s): Grade of C or better in MATH 310.

STAT 473 3 OR 4 hrs.**Game Theory**

Games in extensive and normal form. Minimax theorem. Solving matrix games via linear programming. Nash equilibria for non-zero-sum games, Shapley value, bargaining models. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in MATH 310 or STAT 401.

STAT 477 3 OR 4 hrs.
Introduction to Reliability Theory

Structural and probabilistic properties of coherent systems, notions of aging and classes of life distributions, preservation properties, dependent components, optimal allocation models. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in STAT 401 or consent of the instructor.

STAT 481 3 OR 4 hrs.**Applied Statistical Methods II**

Linear regression, introduction to model building, analysis of variance, analysis of enumerative data, nonparametric statistics, product and system reliability, quality control. SAS and SPSSX applications. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of C or better in STAT 381.

STAT 486 3 OR 4 hrs.
Statistical Consulting

Introduction to statistical consulting methods and techniques. Handling and transformation of raw data sets in CMS. Statistical analysis of data sets with SAS and SPSSX. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of C or better in STAT 411 or STAT 481.

STAT 494 3 OR 4 hrs.
Special Topics in Statistics, Probability and Operations Research

Course content announced prior to each semester in which it is given. Topics drawn from areas such as distribution theory; Bayesian inference; discrete optimization; applied probability models; resampling techniques; biostatistics; environmental sampling. 3 undergraduate hrs. 4 graduate hrs. May be repeated. Students may register in more than one section per term.

Prerequisite(s): Approval of the department.

STAT 496 1-4 hrs.
Independent Study

Reading course supervised by a faculty member. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the instructor and approval of the department.

Theatre**THTR 109 3 hrs.****Introduction to Theatre**

Understanding the theatre experience through production examples and the critical examination of the contributions of playwright, actor, director, designer, and audience. Play attendance required. *Creative Arts, and Past course.*

THTR 140 3 hrs.**Polish Drama in Translation**

Elementary aspects of Polish dramatic theory and close reading of representative scripts selected from various periods. **Same as** POL 140. Taught in English. *Creative Arts, and World Cultures course.*

THTR 150 3 hrs.**Technical Theatre**

Basic techniques of play production. Survey of methods and materials of set construction, painting, stage lighting, backstage organization. Practical work with University Theatre.

THTR 151 3 hrs.**Fundamentals in Costume Construction**

Fundamentals of costume construction from conception to realization, through the use of sewing machines, pattern making, and historical research with practical projects.

THTR 161 3 hrs.**Introduction to Acting I**

Basic vocal and physical stage performance techniques including the role of character in relation to the intellectual and emotional landscape of a play.

THTR 209 3 hrs.**Modern Theatre**

Theatre theories and techniques developed between 1870 and the present, notably those of Ibsen, Appia, Stanislavsky, Meyerhold, Brecht, Artaud, and Grotowski. **Prerequisite(s):** THTR 109. *Creative Arts course.*

THTR 210 3 hrs.**Movement for Stage I**

Techniques in the physicalization of performance. Focus on the body in space as both primary and integrated theatrical communication. **Prerequisite(s):** Credit or concurrent registration in THTR 161.

THTR 245 3 hrs.**East Asian Theatre**

Survey of traditional theatre forms in China, Japan, and Korea, their cultural contexts, and influence on today's theatre. Students may also choose to research theatres of Southeast Asia. *Creative Arts course.*

THTR 250 3 hrs.**Set Design I**

Fundamental principles of visual perception: space, mass, balance, line, texture, shape, color, light, movement, tension and their use in creating visual environments for performance. Practical design projects required. **Prerequisite(s):** Grade of B or better in THTR 150.

THTR 255 3 hrs.**Set Design II**

Basic interpretive and practical techniques in creating 3-dimensional performance environments including conceptualization, research, drafting, rendering, and model building. Students create a design solution for one of the theatre productions. **Prerequisite(s):** Grade of B or better in THTR 250.

THTR 256 3 hrs.**Lighting Design**

Basic interpretive and practical techniques in creating and enhancing 3-dimensional performance environments through lighting. **Prerequisite(s):** Grade of B or better in THTR 150.

THTR 257 3 hrs.**Costume Design I**

Basic interpretive and practical techniques in designing stage costumes including conceptualization, rendering, and construction techniques. **Prerequisite(s):** Grade of B or better in THTR 151.

THTR 258 3 hrs.**Costume Design II**

Practical research and rendering techniques in designing stage costumes for use in theatrical productions. **Prerequisite(s):** Grade of B or better in THTR 257.

THTR 259 3 hrs.**Makeup Design**

Principle of designing and applying makeup for stage performances including prosthetics and wigs. **Prerequisite(s):** Grade of B or better in THTR 150 or grade of B or better in THTR 151.

THTR 260 3 hrs.**Voice for the Stage I**

Fundamentals of vocal production, their physical and emotional characteristics, and their relationship to body, space, action, and emotion.

THTR 261 3 hrs.**Voice for the Stage II**

The relationship between speech, sound, and dramatic sense. Detailed work on the principles of speech. Advancement of breath and phonation skills from Voice I. **Prerequisite(s):** Grade of B or better in THTR 210 and grade of B or better in THTR 260.

THTR 262 3 hrs.**Acting II: Scene Study**

Techniques of interpreting text, character, and dramatic action. Includes attention to alternative dramatic forms and modes of performance. **Prerequisite(s):** Grade of B or better in THTR 210 and grade of B or better in THTR 260; and sophomore standing or above.

THTR 263 3 hrs.**Acting II: Adaptations**

Techniques of adapting and interpreting text from fiction, short stories and novels into short dramatic scenes which the students write and act in.

Prerequisite(s): Grade of B or better in THTR 161 and grade of B or better in THTR 210; and sophomore standing or above.

THTR 280 3 hrs.**Practicum in Performance**

Rehearsal and performance techniques, including script analysis, characterization, voice, movement, directing, or design. May be repeated to a maximum of 18 hrs. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department and completion of a successful audition.

THTR 281 1-6 hrs.**Practicum in Theatre Administration**

Planning and execution of specific projects in administration and box office; publicity, budget, marketing, house management, and scheduling. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

THTR 282 1-6 hrs.**Practicum in Costuming**

Practical experience in all aspects of construction and maintenance, including millinery, mask making, wig making, pattern drafting, and makeup application. May be repeated to a maximum of 15 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

THTR 283 1-6 hrs.**Practicum in Technical Theatre**

Practical experience in various technical areas: scenery construction, set painting, stage lighting, sound, and properties construction. May be repeated to a maximum of 15 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

THTR 284 3 hrs.**Seminar on Play in Production**

Research and development for play production using the current University production as an example. Special topics. May be repeated to a maximum of 6 hrs. **Prerequisite(s):** Consent of the instructor.

THTR 299 1–3 hrs.
Individual Topics
Individual investigation of special problems. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Junior standing, a 2.50 grade point average, and consent of the instructor.

THTR 310 3 hrs.
Movement for Stage II
Advanced techniques in the physicalization of performance and the correlation of body and text as communicators of dramatic action. **Prerequisite(s):** Grade of B or better in THTR 210; and junior standing or above.
Recommended background: Advanced actor training and voice training.

THTR 410 3 OR 4 hrs.
Movement for Stage III
Specialized topics in performance skills and physical theatre—incorporates clown, circus techniques, and mask work. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in THTR 310 and advanced physical performance experience; or consent of the instructor.

THTR 423 3 OR 4 hrs.
Playwriting
The development of scripts for stage performance. **Same as ENGL 495.** 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Junior standing or above; and approval of the department and submission and approval of a playwriting sample or dialog-centered fiction prior to registration.

THTR 444 3 OR 4 hrs.
Drama in Its Cultural Context I
Drama in its social and cultural context, through the seventeenth century. 3 undergraduate hrs. 4 graduate hrs.

THTR 445 3 OR 4 hrs.
Drama in Its Cultural Context II
Drama in its social and cultural context, eighteenth to twentieth centuries. 3 undergraduate hrs. 4 graduate hrs.

THTR 451 3 OR 4 hrs.
Advanced Acting: American Drama
Techniques of performing classical and modern American drama. Focus on character development and interpreting dramatic action. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in THTR 210 and grade of B or better in THTR 260; and grade of B or better in THTR 262 or grade of B or better in THTR 263; and sophomore standing or above.

THTR 452 3 OR 4 hrs.
Advanced Acting: Shakespeare
Techniques of performing monologues and scenes from Shakespeare's plays. Focus on magical realism and techniques of performing in verse. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Grade of B or better in THTR 210 and grade of B or better in THTR 261; and grade of B or better in THTR 262 or grade of B or better in THTR 263; and junior standing or above; or consent of the instructor.

THTR 455 3 OR 4 hrs.
Acting: Comedy
Techniques of performing classic comedy. Emphasis on the "Commedia dell'arte" and improvisational comedy. Topics vary. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in THTR 262 or graduate standing in theatre.

THTR 458 3 OR 4 hrs.
Advanced Acting: Chekhov
Techniques of performing scenes from Chekhov's plays and short stories. Focus on naturalistic theatre, psychological realism and craft of transforming into the character. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in THTR 452; or consent of the instructor or graduate standing in theatre.

THTR 459 3 OR 4 hrs.
Advanced Acting: Ensemble
Process and scoring of character development in a full-length twentieth-century play. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time. **Prerequisite(s):** Grade of B or better in THTR 451 and grade of B or better in THTR 452 and grade of B or better in THTR 458; and junior standing or above; or consent of the instructor.

THTR 462 3 OR 4 hrs.
Voice for the Stage III
Advanced techniques in the integration of voice, speech, dialects, and other text-related vocal performance skills. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in THTR 452; and junior standing or above or graduate standing in theatre.

THTR 464 3 OR 4 hrs.
Special Projects in Theatrical Design
Twentieth-century styles: design for the contemporary stage. Problems in conceptualization, realization, and execution. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** THTR 250 or THTR 256; or THTR 257 and THTR 259; or graduate standing in theatre.

THTR 465 3 OR 4 hrs.
Stage Direction
Exploration of conceptual planning and implementation skills for the stage director ranging from script interpretation to rehearsal and performance. Performance projects required. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Grade of B or better in THTR 210 and grade of B or better in THTR 250; and grade of B or better in THTR 256 or grade of B or better in THTR 257; or graduate standing in theatre.

THTR 466 3 OR 4 hrs.
Special Projects in Performance Training
Training in varying advanced techniques of performance. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 2 time(s). **Prerequisite(s):** THTR 262; or for graduate students, consent of the instructor.

THTR 470 3 OR 4 hrs.
Contemporary Performance Techniques
The relationship of contemporary theory and performance techniques with attention to both text- and nontext-based forms. Topics vary. Performance projects required. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time.

THTR 472 3 OR 4 hrs.
Investigative Collaboration
Collaboration as the primary means for theatrical creation. Production teams assigned to joint-production projects. Topics vary. 3 undergraduate hrs. 4 graduate hrs. May be repeated up to 1 time.

THTR 474 1–8 hrs.
Internship
Students work in an approved professional setting. Individual projects developed through conferences with a faculty member and a field supervisor. May be repeated for a maximum of 1-6 hours for undergraduate students; or 1-8 hours for graduate students. Undergraduate credit should be in multiples of 3. Only three hours may be applied toward theatre major requirements. **Prerequisite(s):** Senior standing or above and 12 hours of upper-division courses in theatre, with a 3.00 grade point average in those courses.

THTR 475 3 OR 4 hrs.
Advanced Acting: Audition
Selection and performing of audition pieces from theater, film, and television. Professional seminars and discussions with actors, directors, agents and casting directors. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Senior standing or above; or consent of the instructor.

THTR 491 0–16 hrs.
Study Abroad in Theatre
Study abroad within an approved foreign exchange program or department-sponsored program. May be repeated with approval. Approval to repeat course granted by the department. **Prerequisite(s):** Approval of the department.

THTR 498 1–4 hrs.
Independent Study
Individual investigation of special problems that may be student-initiated or related to faculty research. May also be used for special University-sponsored projects, such as interdisciplinary seminars. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Senior or graduate standing and approval of the department.

Urban and Public Affairs

UPA 300 3 hrs.
Introduction to Urban Policy Processes
Basic structure of the policy process within the urban context including the nature of urban policy, its formulation, evaluation, and implementation. Emphasis on state and local policy development as it relates to urban areas. Fieldwork required. **Prerequisite(s):** College-level microeconomics and admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 301 3 hrs.
Political Economy of Urban Development
Political and economic approaches to the study of urban life, urban problems, and the built environment. Fieldwork required. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 303 3 hrs.
Urban Government I: Managing the Internal Environment
Personnel management, organizing, budgeting, finance, leadership, motivation, economic development, accountability, ethics, legal and constitutional foundations. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 304 3 hrs.
Visualizing the City: Methods and Tools for Representing the City
Addresses basics of visualization methods and techniques of representing the physical environment. Fieldwork required. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 305 3 hrs.
Urban Government II: Managing the External Environment
Intergovernmental finance, interjurisdictional competition, intergovernmental cooperation, intergovernmental cooperative agreements, and contractual and informal relations with nonprofit organizations and governmental actors. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 306 3 hrs.
Urban Policy Analysis Methods
Introduces students to the basics of policy and program evaluation using rational model. Needs analysis, performance evaluation, data collection methods and analysis, discounting valuation problems. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 307 3 hrs.
E-Government in Urban and Public Affairs
This course will investigate the implications of electronic forms of service delivery, for example via the Internet, for citizens, for managers, for elected officials, and for the relationships between citizens and their elected representatives. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 308 3 hrs.
Globalization in Urban and Public Affairs
Study of urban and public affairs as they relate to globalization. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 490 0–18 hrs.
International Student Exchange Program
The student exchange program enables the reciprocal exchange of students between UIC and colleges or universities in other countries. There are a variety of programs tailored to meet the needs of CUPPA students. May be repeated for a maximum of 36 credit hours per academic year or for a total of 48 hours, all of which must be earned within one calendar year. Determination of the number of credits to be granted is part of the proposal approval process. Fieldwork required. **Prerequisite(s):** Completion of the University Writing requirement; and junior standing or above; and approval of the College of Urban Planning and Public Affairs; and approval of the Office of International Affairs.

UPA 492 3 hrs.
Topics in Urban and Public Affairs
In-depth study of selected issues of urban and public affairs. May be repeated to a maximum of 6 hrs. Students may register for more than one section per term. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 493 3 hrs.
Topics in Urban and Public Affairs and Administration
In-depth study of selected issues on urban and public affairs. May be repeated to a maximum of 6 hrs. Students may register for more than one section per term. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 494 3 hrs.
Senior Capstone I in UPA
A selection of a capstone topic and introductory research on the topic. Fieldwork required. **Prerequisite(s):** Senior standing or above; Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 495 3 hrs.
Senior Capstone Experience in Urban and Public Affairs II
Students synthesize and draw upon knowledge learned in the program to engage in projects in the urban community. Fieldwork required. **Prerequisite(s):** Senior standing or above; Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 496 3 hrs.
Senior Capstone Experience in Urban and Public Affairs I: Public Administration
Selection of capstone topic and introductory research on that topic. Fieldwork required. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 497 3 hrs.
Senior Capstone Experience in Urban and Public Affairs II: Public Administration
Students synthesize and draw upon knowledge gained in the UPA major to engage in projects in the urban community. This course is an extension of UPA 496. Fieldwork required. **Prerequisite(s):** Senior standing or above; Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 498 1–3 hrs.
Independent Study in Urban Planning and Public Affairs
Provides an opportunity for students to pursue an independent project that is not available through the required UPA course work. May be repeated for a maximum of 6 hrs. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

UPA 499 1–3 hrs.
Independent Study in Urban Planning and Public Affairs and Administration
Provides an opportunity for students to pursue an independent project that is not available through the required UPA course work. May be repeated for a maximum of 6 hrs. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs program or consent of the instructor.

Urban Planning and Policy

UPP 101 3 hrs.
Introduction to Urban Studies
General survey of urban issues and experience using an interdisciplinary approach. *U.S. Society course.*

UPP 199 1–3 hrs.
Independent Study in Urban and Public Affairs
Study and analysis of topics selected by the student under the guidance of a faculty advisor. May be repeated to a maximum of 6 hrs. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

UPP 202 3 hrs.
Planning Great Cities
What makes a city great, how cities change, can cities be planned, and how planners plan; characteristics of Great Cities and current urban planning issues. *U.S. Society course.*

UPP 302 6 hrs.
Great Cities Internship
Provides students an opportunity to apply theoretical knowledge and conduct research in metropolitan organizations through field placements and seminars. **Same as** POLS 302. **Prerequisite(s):** Junior or senior standing and grade point average of 3.00, or consent of the instructor.

UPP 403 3 OR 4 hrs.
Introduction to Urban Planning
Patterns of city growth, physical, socioeconomic, and environmental issues. Contemporary planning issues. Future of cities. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Advanced undergraduate standing or consent of the instructor.

UPP 420 1–8 hrs.
Great Cities: London and Chicago
Comparative investigation of urban, economic, social, and political issues in the two global cities. Includes classes, study, and living in London. Fieldwork required. **Prerequisite(s):** Junior standing or above and selection by the Study Abroad Office admission committee.

UPP 460 3 OR 4 hrs.
Introduction to Geospatial Analysis and Visualization
Exploration of geospatial analysis and visualization theory and tools; how to appropriately choose and use tools. Cognition, communication, modeling, cartography, web authoring, 3-D visualization, and aerial and satellite photography. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. Centrino 2 Duo processor, 2 GB RAM and 100 GB hard drive minimum recommendations. **Prerequisite(s):** Junior standing or above; and approval of the

department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization.

UPP 462 3 OR 4 hrs.
Intermediate GIS for Planning
Introduce more advanced features of GIS and its applications to urban planning and policy. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization.

UPP 463 3 OR 4 hrs.
Complexity-Based Models for Planning and Policy
Introduction to complexity-based models and their possible applications to a range of planning and public policy issues. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. **Prerequisite(s):** Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization. **Recommended background:** Experience in object-oriented programming is helpful but not required.

UPP 464 3 OR 4 hrs.
Advanced Visualization Techniques
Specialized computational abilities for various planning areas including: database and spreadsheet analyses, spatial information systems, imageries and image editing, 3-D modeling and virtual reality, hypermedia or multimedia, and the Internet. 3 undergraduate hrs. 4 graduate hrs. Extensive computer use required. Centrino 2 Duo with at least 2GB RAM and 110 GB hard drive minimum recommended specifications. **Prerequisite(s):** Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization.

UPP 470 3 OR 4 hrs.
Cohort Seminar for Urban Developers
Application of the financial calculator, use of spreadsheets, and other tools commonly used in real estate-based urban development projects. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

UPP 471 3 OR 4 hrs.
Housing and Community Development for Urban Developers

Housing policy at federal, state, and local levels affecting urban housing markets. Emphasis on assessment of market conditions affecting community development decisions. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): UPP 470 or consent of the instructor.

UPP 472 3 OR 4 hrs.
Development Finance For Urban Developers

Key financial principles of real estate development, particularly those related to the financing of affordable housing. How to develop a real estate pro forma. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

UPP 473 3 OR 4 hrs.
Organizational Essentials for Urban Developers

Theory and practice of management in public and nonprofit settings. Focus on developing communication, leadership, and legal skills for each step in development. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

UPP 474 3 OR 4 hrs.
Community Development Process for Urban Developers

Developing affordable housing: development team, acquisition strategy, legal issues, construction management, and project sustainability, as it pertains to different types of housing developments. 3 undergraduate hrs. 4 graduate hrs.

Prerequisite(s): Consent of the instructor.

UPP 475 3 OR 4 hrs.
Sustaining the Housing for Urban Developers

Introduces students to a range of management issues: property management and maintenance, resident relations and services, and financial/asset management as it relates to sustaining affordable housing. 3 undergraduate hrs. 4 graduate hrs. **Prerequisite(s):** Consent of the instructor.

UPP 493 1–4 hrs.
Topics in Urban Planning and Policy

Intensive analysis of selected planning problems or policy issues. May be repeated to a maximum of 12 hrs. Students may register for more than one section per term. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

Women's Health Nursing

NUWH 450 3 hrs.
Women and Mental Health Nursing

Theories of female psychology; women's daily lives and mental health; gender differences in mental illness; strategies for improving women's mental health. **Same as** GWS 450 and NUSC 450. **Prerequisite(s):** Consent of the instructor.

Students enrolled in the College of Liberal Arts and Sciences must have credit in PSCH 100 and either PSCH 270 or PSCH 315 or GWS 315.

NUWH 455 3 hrs.
Women's Health: A Primary Healthcare Approach

Health promotion and disease prevention in women's health. Includes community experience with community women.

Primary healthcare approaches examined. **Same as** CHSC 456 and NUSC 455. **Prerequisite(s):** Consent of the instructor.

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Travel Directions and Visitor Parking

MASS TRANSIT

UIC is served by the CTA trains (the “El”) Blue Line train (UIC-Halsted, Racine and Illinois Medical District) and the Pink Line train (Polk stop), connecting the campus with downtown, O’Hare International Airport, northwest and west side neighborhoods of Chicago, and the western suburbs of Oak Park, Forest Park, and Cicero.

CTA bus lines serving campus include the 7-Harrison, 8-Halsted, 9-Ashland, 11-Lincoln/Sedgwick, 12-Roosevelt, 38-Ogden/Taylor, 60-Blue Island/26th, and 168-UIC-Pilsen Express.

In particular, the 7 and 60 buses run from downtown west on Harrison St., connecting the commuter rail hubs to the campus:

- The 60 bus boards on the south (Madison St.) side of the Ogilvie Transportation Center (Metra rail lines: Union Pacific North, Northwest, and West.)
- The 60 and the 7 buses board on the west (Clinton St.) side of Union Station (Metra rail lines: Burlington Northern-Santa Fe, Heritage Corridor, North Central, Southwest, and Milwaukee District North and West.)

The UIC campus is also two blocks west of the Greyhound Bus terminal.

Detailed travel information is available from the Regional Transportation Authority’s Travel Information Center or 836-7000 from any area code in the RTA service area (area code 312 from outside the area.)

Transit Links:

CTA: <http://www.transitchicago.com/>

PACE: <http://www.pacebus.com/>

Metra: <http://www.metrarail.com>

Airports serving Chicago: <http://www.flychicago.com/>

DRIVING DIRECTIONS

East and South Side of Campus

From the north: Take the Kennedy Expressway (I-90/94) to the Eisenhower Expressway (I-290) westbound and keep to the right; take the first exit from the Eisenhower Expressway, which is Morgan Street; then take Morgan Street south one block to the campus.

From the west: Take the (I-290) Eisenhower Expressway to the Racine Avenue exit; then go south to Harrison Street and east to the campus.

From the east: Take Harrison Street or Roosevelt Road; if you take Roosevelt Road, go west to Halsted Street.

From the south: Take the Dan Ryan Expressway (I-90/94) and exit on Roosevelt Road (1200 south); go west on Roosevelt Road to Halsted Street.

West Side of Campus (Medical Center & Health Sciences)

From the north: Take the Kennedy Expressway (I-90/94) to the Eisenhower Expressway (I-290) westbound and keep to the right; take the second exit from the Eisenhower Expressway, which is Ashland Avenue; take Ashland Avenue south to Taylor Street; then go west on Taylor Street to the campus.

From the west: Take the Eisenhower Expressway (I-290) to the Ashland Avenue exit; take Ashland Avenue south to Taylor Street; then go west on Taylor Street to the campus.

From the east: Take Harrison Street or Roosevelt Road west to Wood Street. If you take Harrison Street, go south on Wood Street to the campus, or from Roosevelt Road go north on Wood Street to the campus.

From the south: Take the Dan Ryan Expressway (I-90/94) and exit on Roosevelt Road (1200 south); go west on Roosevelt Road to Wood Street; then go north on Wood Street to the campus.

VISITOR PARKING

Visitors to the University may park in one of the following cash lots.

East and South Side

Halsted Street Parking Structure: Garage on Halsted with entrances on Polk and Taylor streets.

Harrison Street Parking Structure: Garage between Morgan Street and Racine Avenue with the visitor’s entrance on Harrison.

Lot 5C: Parking lot on Morgan Street near Roosevelt Road.

Lot 9: Parking lot on the northeast corner of Morgan and Harrison streets with the entrance on Morgan Street.

Maxwell Street Parking Structure: Garage on the corner of Maxwell and Union streets with an entrance on Maxwell Street.

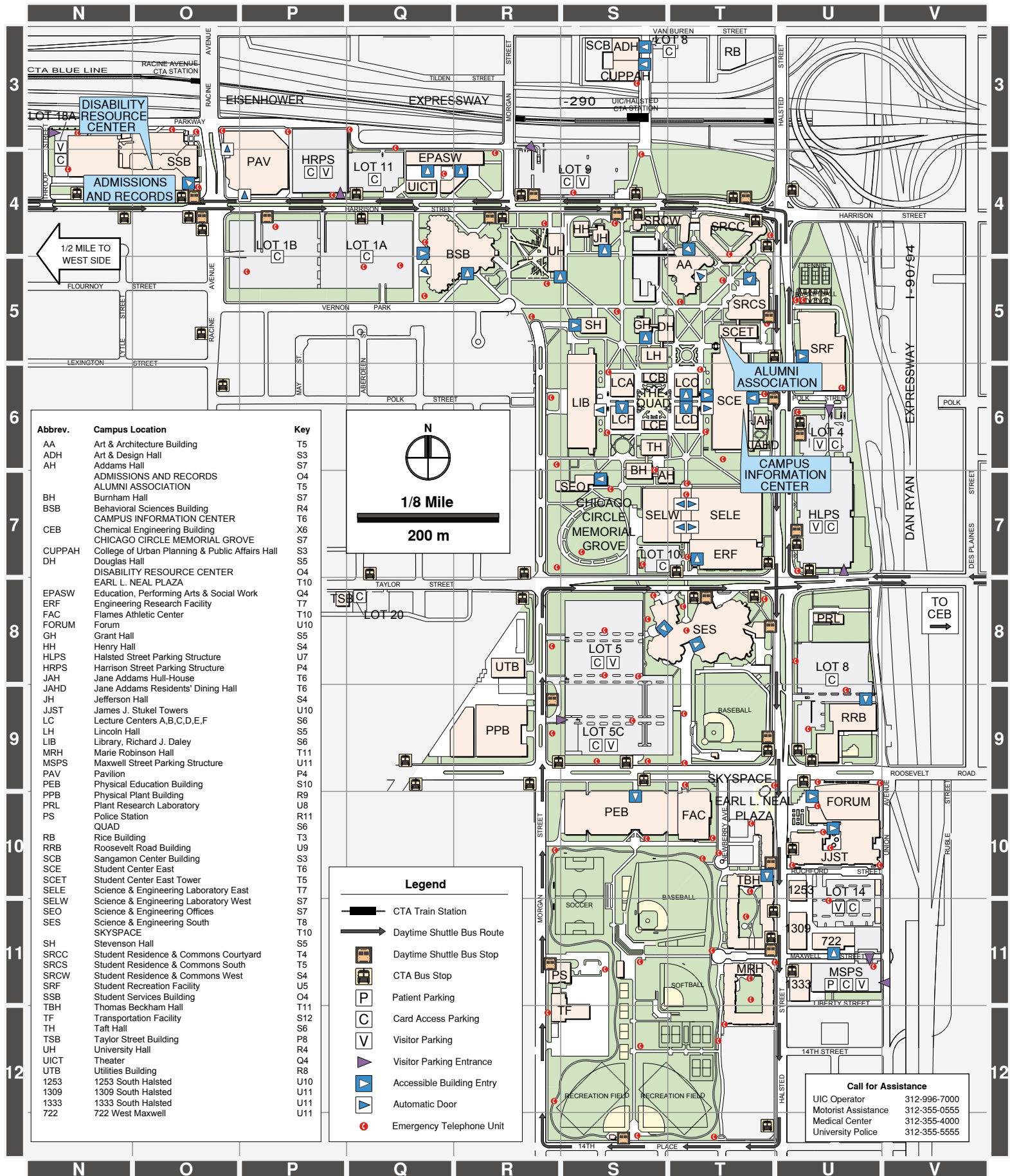
West Side

Lot C4: Parking lot on Wolcott Avenue between Roosevelt Road and Taylor Street (enter on Taylor Street).

Paulina Street Parking Structure: Garage between Paulina Street and Marshfield Avenue at Taylor Street.

Wood Street Parking Structure: Garage on Wood Street between Grenshaw and Taylor Streets.

EAST SIDE



WEST SIDE



Academic Calendar 2009–2011

Fall Semester 2009

| | |
|----------------------|---|
| August 24, M | Instruction begins. |
| September 4, F | Last day to complete late registration; last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| September 7, M | Labor Day holiday. No classes. |
| September 12, Sa | <i>CampusCare</i> deadline to submit waiver forms. |
| October 30, F | Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. |
| November 26–27, Th–F | Thanksgiving holiday. No classes. |
| December 4, F | Instruction ends. |
| December 7–11, M–F | Final examinations. |

Spring Semester 2010

| | |
|------------------|---|
| January 11, M | Instruction begins. |
| January 18, M | Martin Luther King, Jr., Day. No classes. |
| January 22, F | Last day to complete late registration; last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| February 7, Su | <i>CampusCare</i> deadline to submit waiver forms. |
| March 19, F | Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. |
| March 22–26, M–F | Spring vacation. No classes. |
| April 30, F | Instruction ends. |
| May 3–7, M–F | Final examinations. |

Summer Session 2010

Summer Session I (4-Week Session)

| | |
|-------------|---|
| May 17, M | Instruction begins. |
| May 19, W | Last day to complete late registration for Summer Session I; last day to add a course(s) or make section changes; last day to drop individual Summer Session I courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| May 31, M | Memorial Day holiday. No classes. |
| June 2, W | Last day for undergraduate students to use optional late drop for a Summer Session I course in college office and receive grade of W on academic record. |
| June 10, Th | Instruction ends for Summer Session I. |
| June 11, F | Final examinations for Summer Session I. |

Summer Session II (8-Week Session)

| | |
|------------------|---|
| June 14, M | Instruction begins. |
| June 18, F | Last day to complete late registration for Summer Session II; last day to add a course(s) or make section changes; last day to drop individual Summer Session II courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| July 5, M | Independence Day holiday. No classes. |
| July 16, F | Last day for undergraduate students to use optional late drop for a Summer Session II course in college office and receive grade of W on academic record. |
| August 4, W | Instruction ends. |
| August 5–6, Th–F | Final examinations for Summer Session II. |

Fall Semester 2010

| | |
|----------------------|---|
| August 23, M | Instruction begins. |
| September 3, F | Last day to complete late registration; last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| September 6, M | Labor Day holiday. No classes. |
| October 29, F | Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. |
| November 25–26, Th–F | Thanksgiving holiday. No classes. |
| December 3, F | Instruction ends. |
| December 6–10, M–F | Final examinations. |

Spring Semester 2011

| | |
|------------------|---|
| January 10, M | Instruction begins. |
| January 17, M | Martin Luther King, Jr., Day. No classes. |
| January 21, F | Last day to complete late registration; last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| March 18, F | Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. |
| March 21–25, M–F | Spring vacation. No classes. |
| April 29, F | Instruction ends. |
| May 2–6, M–F | Final examinations. |

Summer Session 2011

Summer Session I (4-Week Session)

| | |
|------------|---|
| May 16, M | Instruction begins. |
| May 18, W | Last day to complete late registration for Summer Session I; last day to add a course(s) or make section changes; last day to drop individual Summer Session I courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| May 30, M | Memorial Day holiday. No classes. |
| June 1, W | Last day for undergraduate students to use optional late drop for a Summer Session I course in college office and receive grade of W on academic record. |
| June 9, Th | Instruction ends for Summer Session I. |
| June 10, F | Final examinations for Summer Session I. |

Summer Session II (8-Week Session)

| | |
|------------------|---|
| June 13, M | Instruction begins. |
| June 17, F | Last day to complete late registration for Summer Session II; last day to add a course(s) or make section changes; last day to drop individual Summer Session II courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| July 4, M | Independence Day holiday. No classes. |
| July 15, F | Last day for undergraduate students to use optional late drop for a Summer Session II course in college office and receive grade of W on academic record. |
| August 3, W | Instruction ends. |
| August 4–5, Th–F | Final examinations for Summer Session II. |