



UIC UNIVERSITY OF ILLINOIS
AT CHICAGO

UNDERGRADUATECATALOG **2007**2009

UIC Academic Calendar 2007–2009

Fall Semester 2007

August 27, M	Instruction begins.
September 3, M	Labor Day holiday. No classes.
September 7, 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last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via 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>UIC Web for Student</i> .
October 5, F	Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record.
November 22–23, Th–F	Thanksgiving holiday. No classes.
December 7, F	Instruction ends.
December 10–14, M–F	Final examinations.
December 15, Sa	Semester ends.

Spring Semester 2008

January 14, M	Instruction begins.
January 21, M	Martin Luther King, Jr., Day. No classes.
January 25, 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last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via 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>UIC Web for Student</i> .
February 22, F	Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record.
March 24–28, M–F	Spring vacation. No classes.
May 2, F	Instruction ends.
May 5–9, M–F	Final examinations.
May 10, Sa	Semester ends.

Summer Session 2008

May 26, M	Memorial Day holiday. No classes.
May 27, Tu	Instruction begins.
May 30, 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last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via 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>UIC Web for Student</i> .
June 27, F	Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. Summer Session Only students request a late drop in the Office of Registration and Records.
July 4, F	Independence Day holiday. No classes.
July 16, W	Instruction ends.
July 17–18, Th–F	Final examinations.
July 19, Sa	Summer Session ends.

Fall Semester 2008

August 25, M	Instruction begins.
September 1, M	Labor Day holiday. No classes.
September 5, 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last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via 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>UIC Web for Student</i> .
October 3, F	Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record.
November 27–28, Th–F	Thanksgiving holiday. No classes.
December 5, F	Instruction ends.
December 8–12, M–F	Final examinations.
December 13, Sa	Semester ends.

Spring Semester 2009

January 12, M	Instruction begins.
January 19, M	Martin Luther King, Jr., Day. No classes.
January 23, 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>UIC Web for Student</i> .
February 20, F	Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record.
March 23–27, M–F	Spring vacation. No classes.
May 1, F	Instruction ends.
May 4–8, M–F	Final examinations.
May 9, Sa	Semester ends.

Summer Session 2009

May 25, M	Memorial Day holiday. No classes.
May 26, Tu	Instruction begins.
May 29, 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>UIC Web for Student</i> .
June 26, F	Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. Summer Session Only students request a late drop in the Office of Registration and Records.
July 3, F	Independence Day holiday. No classes.
July 15, W	Instruction ends.
July 16–17, Th–F	Final examinations.
July 18, Sa	Summer Session ends.

Undergraduate Catalog. This publication is a record of the 2007–2009 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, University and college policies, 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. For the catalog on the Web, see <http://www.uic.edu/ucatalog/>.

Volume 38, June 1, 2007

Office of Academic and Enrollment Services (MC 103)
University of Illinois at Chicago
601 South Morgan Street
Chicago, Illinois 60607-7127

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, sex, religion, 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 to 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 (MC 602)
Title IX, ADA, and 504 Coordinator
809 South Marshfield Avenue, Room 717
Chicago, Illinois 60612-7207
<http://www.uic.edu/depts/oea>
(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
<http://www.uic.edu/depts/oea>

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 2007–2009 *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 in print and online at <http://www.uic.edu/ucat/catalog>. The print catalog is only updated every other year, but the online catalog is updated each semester to reflect changes to degree requirements and academic policies.

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.

Board of Trustees and Administrative Officers

Board of Trustees of the University of Illinois

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Administrative Officers

Administration

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B. Joseph White

Chancellor

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College of Dentistry

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College of Education

Victoria Chou

College of Engineering

Prithviraj (Prith) Banerjee

Graduate College

Clark Hulse

Honors College

Lon Kaufman

College of Liberal Arts and Sciences

Christopher M. Comer

College of Medicine

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Regional Dean, College of Medicine at Rockford

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College of Nursing

Joan Shaver

Interim Dean, College of Pharmacy

Jerry L. Bauman

Interim Dean, School of Public Health

Sylvia Furner

Jane Addams College of Social Work

Creasia Finney Hairston

College of Urban Planning and Public Affairs

Robin Hambleton

University Librarian

Mary M. Case

Organization Chart

UIC UNIVERSITY OF ILLINOIS
AT CHICAGO

Chancellor

Access and Equity
Alumni Relations
Great Cities Commitment
Senate Office
Provost and Vice Chancellor for Academic
Affairs
Vice Chancellor for Administrative Services

Vice Chancellor for Development
Vice Chancellor for External Affairs
CEO Healthcare System
Vice Chancellor for Human Resources
Vice Chancellor for Research
Vice Chancellor for Student Affairs

Provost and Vice Chancellor for Academic Affairs

Colleges:

Applied Health Sciences
Architecture and the Arts
Business Administration
Dentistry
Education
Engineering
Graduate College
Honors College
Jane Addams College of
Social Work
Liberal Arts and Sciences
Medicine
Nursing
Pharmacy
School of Public Health
Urban Planning and Public
Affairs
University Library

Academic Support Units:

Academic and Enrollment
Services
AACC
• Computing
• Telecommunication
Admissions and Records
African American Cultural
Center
Asian American Resource
and Cultural Center
Budgeting and Program
Analysis
Campus Learning
Environments
Catalog
Classroom Scheduling
Continuing Education
Council for Excellence in
Teaching and Learning
Data Research and
Institutional Analysis
Degree Audit Reporting
System
Disability Resource Center
External Education

Units:

Environmental Health
and Safety
• Health and Safety
Section
• Radiation Safety
Facilities Management
and Capital Programs
• Campus Parking
Services
• Capital Programs
• Facilities
Management
• Facility Information
Management
• Recycling
• Transportation
• University Mail
Services
Facility and Space
Planning
University Police

Vice Chancellor for Administrative Services

Vice Chancellor for Development

Units:

Brilliant Futures
Campaign for UIC
UI Foundation
College and Unit
Development
Corporation and
Foundation Relations
Annual Giving
Development
Communications
Development Special
Events
Regional Development
Programs

Vice Chancellor for External Affairs

Units:

Campus Relations
Civic and Corporate
Relations
Community Relations
Marketing and
Communications
Public Affairs

CEO Healthcare System

Units:

UIC Medical Center
• UI Hospital
• UIC Outpatient Care
Center and Clinics

Vice Chancellor for Human Resources

Units:

UIC Human Resources
Medical Center Human
Resources

Vice Chancellor for Research

Units:

Biologic Resources
Laboratory
Office of Animal Care
and Institutional
Biosafety
Office of Research
Services
Office for the Protection
of Research Subjects
Research Resources
Center

Research Centers:

Center for Advanced
Design, Research, and
Exploration
Center for Research on
Women and Gender
Center for Structural
Biology
Institute for
Environmental Science
and Policy
National Center for Data
Mining
Software Technologies
Research Center

Vice Chancellor for Student Affairs

Units:

Academic Center for
Excellence
African American
Academic Network
Campus Auxiliary
Services
• Campus Housing
• Children's Center
• Dining Services
• Publications Services
• Retail Operations
• Student Centers
• UIC Pavilion
Career Services
Counseling Center/
Testing Services
Dean of Students
Intercollegiate Athletics
International Services
Native American
Support Program
Student Development
Services
Student Financial Aid
TRIO Programs

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.

History and Overview

The University of Illinois at Chicago is the largest institution of higher education in the Chicago area, one of the top 100 research universities in the United States, and dedicated to the land-grant university tradition of research, teaching, and public service. Through its 14 academic colleges and professional schools, the University offers 78 undergraduate, 80 master's, and 63 doctoral programs in architecture, art, applied health sciences, business administration, dentistry, education, engineering, humanities, mathematics, medicine, movement sciences, nursing, performing arts, pharmacy, public administration, public health, sciences, social sciences, social work, and urban planning. The University's programs are enhanced by a variety of research centers and institutes that cover areas, such as community improvement, developmental disabilities, energy, gerontology, robotics, urban economic development, and urban transportation.

The University offers many additional educational opportunities, such as the summer session, the Honors College, study abroad, programs for talented high school students, and individual plans of study. There are extension and online courses and cooperative education programs with business firms, engineering companies, the University of Illinois at Urbana-Champaign and the University of Illinois at Springfield, and with other institutions in the Chicago area.

In 1946, an undergraduate division of the University of Illinois was established at Navy Pier. This facility, renamed the University of Illinois at Chicago Circle, moved to its present location in 1965, when it opened its doors as a four-year university. By 1982, it had grown to include eight academic colleges offering degree programs at both the undergraduate and graduate levels.

The University of Illinois at Chicago was formed by the consolidation, in the fall of 1982, of the two Chicago campuses (formerly known as the University of Illinois at the Medical Center and the University of Illinois at Chicago Circle) into a single institution of higher learning. The University's facilities for medical instruction date back to 1894, when the Chicago College of Pharmacy became the School of Pharmacy of the University of Illinois. In 1897, the independent College of Physicians and Surgeons of Chicago became the "Department of Medicine" of the University; in 1901, the Columbian Dental College

became the University School of Dentistry; and in 1925 the University Hospital opened. Programs in nursing education under University auspices began in the 1940s, becoming the School of Nursing in 1951 and, in 1959, the College of Nursing. Other health sciences units of the University of Illinois at Chicago include the College of Applied Health Sciences, the School of Public Health, and over 50 clinics and research facilities. A new \$60 million University of Illinois Hospital was completed in 1981.

Today the University of Illinois at Chicago has a total enrollment of approximately 25,000 students, including more than 9,000 graduate and professional students.

Academic support services include six libraries, extensive computer facilities with a 10,000-user network, and an instructional resources development office. The campus has a number of centers and institutes whose research activities complement classroom teaching. Other support services include tutoring programs; guidance in the improvement of reading, mathematics, and study skills; a writing center; academic and personal counseling; special instruction in English for international students; and financial aid.

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, 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 Education, and many other philanthropic organizations and state and federal agencies.

The faculty is also highly productive in publishing books and articles in professional publications, and many have held editorships of prestigious journals.

The research activities of the faculty have attracted financial support from private foundations and governmental agencies at a level that places UIC among the top 50 institutions in the nation for expenditures in research and development. UIC is among a select group of 96 institutions to be classified in the Research Universities (very high research activity) by the Carnegie Foundation.

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 student body is rich in its diversity, its youth and maturity, and its cultural heritage. Of the 15,000 undergraduate students, 55 percent are female and 45 percent are male. Minority students comprise 50 percent of the undergraduate enrollment. Many full-time students also hold part-time jobs, both on and off campus. In addition, a large number find time to participate in one or more of approximately 233 campus student organizations. With a growing residential population, UIC houses students on the east, west, and south sides of campus. Approximately 3,800 students live on campus, including more than half of first-year undergraduate students.

Admission to the University of Illinois at Chicago is competitive. The mean ACT composite score for entering freshmen is just under 24 with half of the entering freshmen reporting composite scores between 21 and 26.

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 map 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 1997, the North Central Association of Colleges and Schools granted continued accreditation of the University of Illinois at Chicago for the maximum period of 10 years. The next comprehensive evaluation of UIC is scheduled for 2007. Verification of accreditation status is available in the Office of the Chancellor (MC 102), University of Illinois at Chicago, 601 South Morgan Street, Chicago, Illinois 60607-7128; (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, Computer Science, Electrical Engineering, Industrial Engineering, and Mechanical Engineering

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 for Health Informatics and Information Management Education (CAHIIM)
233 North Michigan Avenue, Suite 21st Floor
Chicago, Illinois 60601
(312) 233-1131
<http://www.cahiim.org/>

Human Nutrition

BS in Human 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 advisers 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 read carefully 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 520 (paper-based); 190 (computer-based); or 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 (Internet-

based) on the Test of English as a Foreign Language (TOEFL), which is administered by the Educational Testing Service, <http://www.ets.org/toefl>. Higher scores are required for most 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 1 ^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. Present a satisfactory combination of class rank and ACT or SAT test scores.
5. 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 adviser 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 adviser 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> or can be found in the Web version of this catalog at <http://www.uic.edu/ucatalog/AR.shtml>.

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.
 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.

^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.

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 UIC students who left the University on clear status or on probation, but have attended another collegiate

institution where they have earned a scholastic average below 2.00/4.00 or 3.00/5.00, 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, up to 300 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
 - Movement Sciences
 - Occupational Therapy
 - Physical Therapy
- Architecture
- Art and Design
 - Graphic Design
 - Industrial Design
- Business
- Dentistry
- Education
- Engineering
- Law^a
- Medicine
- Nursing
- Pharmacy
- Public Health
- Urban Planning and Public Affairs
 - Public Administration
 - Urban Planning and Policy

^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.

To request the GPA application packet or more information, consult the Web site http://www.uic.edu/depts/oa/spec_prog/gppa or call (312) 996-8365.

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, 601 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 consult an admissions officer in 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 Registration and Records

1200 Student Services Building (SSB)

(312) 996-4385

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

UIC Web for Student

UIC Web for Student is a comprehensive online resource for students. It can be found at <http://osssorawebprod2.admin.uillinois.edu/webforstudent/wfs3.asp> or by going to the UIC home page <http://www.uic.edu> and clicking on *Quick Links*. Students can use *UIC Web for Student* 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 *UIC Web for Student* 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 *UIC Web for Student* 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 GPA.
- **Personal Information:** Medical Immunization, and Address Changes.
- **Financial Matters:** Tuition and Fees, University Student Financial Service and Cashier Operations, and 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, and emergency contact information, view course schedule, grades, academic history, holds and other personal information.

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 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 should contact the advising office in their college to arrange for academic advising prior to registration.

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 *UIC Web for Student*. Students should consult the *Schedule of Classes* <http://osssorawebprod2.admin.uillinois.edu/webforstudent/uicscheduleofclasses.asp> for complete instructions on using the system to register for courses.

All Students

Change of Course Schedule—Adding and Dropping Courses

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of week 1 for summer session. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer session) students may drop courses with the permission of their major college. If the drop occurs between 0 and 2 weeks in fall and spring (between weeks 0 and 1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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.

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 adviser 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 registration 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 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 (fifth day of summer session).
- 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 an audit fee for the privilege of visiting/auditing a class. 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, in person, or online <http://www.uic.edu/depts/oar/rr/transcripts.shtml>. 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. Students should allow at least two weeks from the date of their request for their transcripts to be processed. 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

Undergraduate or professional students at UIC who withdraw from the University as a result of state or national emergency before the completion of the twelfth week of the semester (sixth week of the summer session) in order to enter into active service with the armed forces of the United States, including the National Guard (or other service pertaining to the United States national defense, or

another country), and do so enter, or will have entered, within 10 instructional days of the date of withdrawal, shall be withdrawn without penalty and without academic credit and given a full refund of tuition and fees (students should check with the UIC health insurance representatives for policies regarding a refund of the health insurance fee). The refund of tuition and fees for students who receive financial aid from federal and state programs and private foundations will be governed according to the rules and regulations of those organizations.

Students living in University residences will receive a pro rata refund for room and board based on the date of withdrawal.

Students who, under the same conditions, withdraw from the University upon completion of the twelfth week of the semester (sixth week of the summer session), or later, may elect one of the following two options:

1. Be entitled, without examination, to receive full credit for each course in which they have 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).
2. Be entitled to withdraw without penalty and without academic credit, and receive a full refund of tuition and fees (see statement above regarding tuition and fee refunds). Students who are enrolled in professionally accredited programs offered by the following colleges and schools should check with their colleges or schools to determine if they are eligible to receive credit under this provision. Certification or accreditation requirements may preclude students from being awarded credit under this policy.
 - College of Applied Health Sciences
 - College of Dentistry
 - College of Medicine
 - College of Nursing
 - College of Pharmacy
 - School of Public Health
 - Jane Addams College of Social Work

Students who are members of the active reserve forces (including the National Guard) called to active duty under normal training orders will not be granted academic credit for courses in which they are enrolled unless they have requested a postponement of such a period of active duty for training until the summer recess, and unless the University has received verification that such a request was officially denied. This requirement, however, shall not apply to individuals who are called to active duty as a result of national emergency or as a result of the mobilization of the reserve forces (including the National Guard).

Students who withdraw from the University to enter into active service as a result of state or national emergency shall be entitled to a leave of absence for a period of up to five years, thus enabling them to return to the University without having to apply for readmission.

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 (sixth week or later of the summer session), may be recommended for the degree at the discretion of the student's college and major department provided that the following conditions are met:

1. The student has been in residence at UIC for at least two full semesters (not including the term of withdrawal);

2. 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 administration officers 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 that 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, shall be eligible for the privilege extended in these rules.

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 the student from enrolling in a subsequent term.

Students registering only for off-campus courses or for no more than five semester hours are temporarily exempt from the immunization requirements. Prior to registering for on-campus courses or for more than five semester hours, students must submit proof of immunity or secure an approved medical or religious exemption.

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. Student address(es), electronic address (e-mail), and telephone number(s)
3. Class/level (graduate, undergraduate, professional, nondegree; freshman, sophomore, junior, senior)
4. College and major field of study/concentration/minor
5. Previous institutions attended
6. Date and place of birth
7. Participation in officially recognized activities and sports
8. Weight and height if the student is an athletic team member
9. Dates of admission/attendance
10. Attendance site (campus, location)
11. Expected graduation date
12. Degrees conferred, with dates
13. Current term hours enrolled and enrollment status (full-time, part-time, not enrolled, withdrawn and date of withdrawal)
14. Awards, honors, and achievements (including distinguished academic performance), with dates
15. Eligibility for membership in honoraries
16. 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). 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 and Fees

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.asp.

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 all students and are payable by the due date printed on the online bill. The amount of tuition and the service fee vary by the date a student enters the University, changes student level, changes 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 (but not all fees) 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 2006–2007 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.
 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.

2006–2007 Tuition and Fees

To determine tuition and fees, **1** add tuition, **2** add applicable tuition differential, and **3** add applicable fees.

1 Undergraduate Tuition	University of Illinois at Chicago Tuition and Fees 2006-2007 FALL 2006 AND SPRING 2007 SEMESTER RANGE RATES						
	Range I		Range II		Range III		Range IV
	12 hours and over		6 to 11 hours		1 to 5 hours		Zero hours
	Resident	Nonresident	Resident	Nonresident	Resident	Nonresident	Res./Nonres.
GENERAL UNDERGRADUATE NON GUARANTEED	\$3,123	\$8,726	\$2,082	\$5,817	\$1,041	\$2,909	\$521
GENERAL UNDERGRADUATE GUARANTEED 4-YEAR TUITION (ENTERED SUMMER 2004 THROUGH SPRING 2005)	\$2,841	\$8,465	\$1,894	\$5,643	\$947	\$2,822	\$474
GENERAL UNDERGRADUATE GUARANTEED 4-YEAR TUITION (ENTERED SUMMER 2005 THROUGH SPRING 2006)	\$3,097	\$9,292	\$2,065	\$6,195	\$1,032	\$3,097	\$516
GENERAL UNDERGRADUATE GUARANTEED 4-YEAR TUITION (ENTERED SUMMER 2006 THROUGH SPRING 2007)	\$3,390	\$9,585	\$2,260	\$6,390	\$1,130	\$3,195	\$565

2 Undergraduate Tuition Differentials

	Range I	Range II	Range III	Range IV
Architecture & the Arts entered prior to Summer 2004	\$400	\$267	\$133	\$67
Architecture & the Arts entered Summer 2004 through Spring 2005	\$216	\$144	\$72	\$36
Architecture & the Arts entered Summer 2005 through Spring 2006	\$235	\$157	\$78	\$39
Architecture & the Arts entered Summer 2006 through Spring 2007	\$400	\$267	\$133	\$67
Engineering entered prior to Summer 2004	\$750	\$500	\$250	\$125
Engineering entered Summer 2004 through Spring 2005	\$460	\$307	\$153	\$77
Engineering entered Summer 2005 through Spring 2007	\$750	\$500	\$250	\$125
Nursing entered prior to Summer 2004	\$800	\$533	\$267	\$133
Nursing entered Summer 2004 through Spring 2005	\$216	\$144	\$72	\$36
Nursing entered Summer 2005 through Spring 2006	\$400	\$267	\$133	\$67
Nursing entered Summer 2006 through Spring 2007	\$800	\$533	\$267	\$133
Business Administration entered prior to Summer 2004	\$250	\$167	\$83	\$42
Business Administration entered Summer 2006 through Spring 2007	\$250	\$167	\$83	\$42
Movement Sciences entered prior to Summer 2004	\$250	\$167	\$83	\$42
Movement Sciences entered Summer 2006 through Spring 2007	\$250	\$167	\$83	\$42
Health Information Management entered prior to Summer 2004	\$500	\$333	\$167	\$83
Health Information Management entered Summer 2006 through Spring 2007	\$500	\$333	\$167	\$83

3 Fees

	Range I	Range II	Range III	Range IV
	12 hours and over	6 to 11 hours	1 to 5 hours	Zero hours
Academic Facilities Maintenance Fund Assessment (see note 7 below). Assessed to undergraduate/graduate/professional students entering Summer 2006 & after.	\$250	\$167	\$83	\$42
General Fee	\$371	\$371	\$371	\$371
Student to Student Fee	\$3	\$3	\$3	\$3
Service Fee	\$288	\$288	\$184	\$184
Health Service Fee	\$99	\$99	\$99	\$99
Health Insurance Fee. With proof of insurance, this fee can be waived.	\$378	\$378	\$378	\$378
CTA U-Pass Transportation Fee. Assessed for full-time study defined as 12 hours. Graduate College full-time study defined as 9 hours. College of Medicine students in classes M-1 and M-2 are assessed the CTA U-Pass for full-time study based on 12 hours.	\$95	Not assessed less than 12 hrs (9 hrs Graduate College)	Not assessed for less than full time	Not assessed for less than full time
TOTAL Fees for students entered Summer 2006 and after	\$1,484	\$1,306	\$1,118	\$1,077
TOTAL Fees for students entered Spring 2006 and prior	\$1,234	\$1,139	\$1,035	\$1,035

Notes

- 1) Tuition and fees are subject to change without notice any time prior to the first day of instruction.
- 2) Students admitted to online programs will be assessed \$560 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.
- 3) In fall and spring semesters, an additional \$3.00 will be assessed for the Student-To-Student Assistance Program (refundable). Not assessed in summer.
- 4) Students within the Graduate College registered for 9 or more hours, and students who are full-time (12 or more hours) undergraduates, full-time (12 or more hours) in the Colleges of Pharmacy, the School of Public Health, the Doctor of Physical Therapy, Dentistry, and classes M-1 and M-2 of the Chicago College of Medicine will be assessed a \$95 transportation fee for the CTA U-Pass.
- 5) The transportation fee will be assessed to degree and nondegree students in the categories listed in note 4 above.

- 6) 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. Please note that fees are subject to change annually. For details on guaranteed undergraduate tuition see www.vpaa.uillinois.edu/policies/tuition_guarantee.asp.
- 7) The Academic Facilities Maintenance Fund Assessment (AFMFA) is assessed to new undergraduate and new graduate/professional students to address the deferred maintenance backlog in academic facilities. AFMFA is \$250 per semester for full-time students enrolled at least 12 credit hours. For less than full-time enrollment, the AFMFA will be based on enrolled credit hours prorated according to range calculations.

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.
2. The faculties of state-supported institutions of higher education in Illinois holding appointments of at least one-quarter time.
3. The professional staff in private and public elementary and secondary schools in Illinois.
4. 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.)
5. 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.

6. 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. See also the *2006–2007 Tuition and Fees* table for applicable fees.

Academic Facilities Maintenance Fund Assessment

The Academic Facilities Maintenance Fund Assessment (AFMFA) is assessed to undergraduate and graduate/professional students entering Summer 2006 and after to address the deferred maintenance backlog in academic facilities. For less than full-time enrollment, the AFMFA will be based on enrolled credit hours prorated according to range calculations.

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.

Service Fee

The service fee supports staff salaries, programming, and general operating expenses for the following student services: Campus Unions, Intercollegiate Athletics, Student Development Services, Student Legal Services, Student Government, and Student Affairs Offices 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. Students registered in courses taught off campus.
3. Cooperating teachers and administrators and social agency field instructors who meet the qualifications of item 6, tuition waiver exemptions.
4. Persons registered in noncredit seminars only.
5. University employees registered at the request of their department in noncredit courses for the purpose of improving their work.
6. University of Illinois retirees.
7. Teacher of the Year.

Health Insurance, Health Service, and General Fees

The health-related and general fees are the same for all students, regardless of the number of hours for which they are enrolled or of their Illinois residence status.

Health Insurance Fee

The University requires all students to have supplemental health benefits coverage. All newly admitted students are automatically enrolled in CampusCare and assessed the

student health insurance 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 coverage. Students enrolled in CampusCare may also enroll or disenroll qualified dependents such as a spouse or unmarried children. 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 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.

Coverage begins on the first day of the term and ends on the first day of the subsequent term. The Student Health Insurance Fee premium 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 Student Health Insurance Fee and are covered for the balance of the term from which they withdrew. CampusCare will not prorate the Student Health Insurance premium.

Detailed information about covered benefits, premium rates, dependent coverage, summer coverage, how to access care, enrollment deadline dates, and forms are available to students at their campus-specific Web site through the CampusCare portal address www.uic.edu/hsc/campuscare/. Information is also available in the online *Schedule of Classes*.

Health Service Fee

The health service fee supports the campus health service facilities. For information regarding health service, see *The Savvy Student's Guide to UIC* section of the catalog.

General Fee

The general fee supports the University's fixed costs, such as utilities, of operating fee-supported facilities on campus. Included are the following: Campus Unions, Campus Housing, Campus Recreation Centers, and the Pavilion. The fee is mandatory.

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.
- 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 fifth day of the summer term.
- 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. Additional copies ordered at the same time and sent to the same address or picked up cost \$2.00 per copy.
- The commencement fee of \$15.00 is assessed all students completing the requirements for a degree.
- The certification fee of \$4.00 is assessed for each verification of enrollment or graduation verification.

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% convenience fee added for credit card payments. Refer to the UI-Pay Web site <http://www.usfsco.uillinois.edu> for information about online payments.

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 before term begins	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 week (first week of summer session)

Refund on Withdrawal from the University

All requests for withdrawals should be initiated 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 semester or fifth week of summer session). Refunds for withdrawal from the University will be prorated based upon the official date of withdrawal as follows:

Refund Schedule

Date University Withdrawal Initiated	Refund ^a
Prior to 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, or by the first Friday of instruction of the summer session, 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 terms, or within the first week of summer session.

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 prior to the first day of classes. They may do this online, in person,

or by submitting a written statement to the Office of Registration and Records.

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.vcsa.uic.edu/MainSite/departments/financial_aid/home/

Office Hours

Monday through Friday

8:30 a.m. to 5:00 p.m.

Introduction

The Office of Student Financial Aid provides a wide range of financial services designed to help students and their families meet the cost of attending UIC. Financial aid is awarded in the form of grants, scholarships, loans, employment, and tuition waivers that help pay the costs of tuition, fees, books, supplies, room and board, transportation, and other personal expenses. OSFA coordinates and administers a variety of state, federal, private, and institutional programs (each with different regulations, requirements, procedures, and forms). However, the primary financial responsibility for meeting educational expenses rests with the student and the student's family. Keep in mind the financial aid system is regulated by the federal and state governments; thus, the information presented here is subject to change at any time.

Financial Aid Counselors

Each student at UIC has a financial aid counselor. Students can find out the name of their assigned counselor via the OSFA Web site or by calling OSFA. Appointments are available Monday, Tuesday, Thursday and Friday and walk-ins are accepted every day during normal operating hours. Out of courtesy for all, please arrive on time for appointments. Students can also contact their counselors by phone or e-mail. Our hope is to respond within 24 hours. However, due to the volume of calls and emails during certain times of the year, please allow 2–4 business days.

Keep in mind much information is available to students via the financial aid Web site. Students will find information on how to apply for financial aid, financial aid "Frequently Asked Questions," information on UIC scholarships, links to financial aid Web sites, and information about how to contact OSFA.

For those students who are enrolled and have a University Identification Number (UIN), by logging onto *Student Self-Service* (part of *UIC Web for Student*), students have access to their financial aid account details. Students can find out if they have any outstanding document requirements, review their financial aid packages, and find out if their financial aid has been disbursed.

Student Self-Service <https://apps.uillinois.edu/>

Click "Student & Faculty Self-Service"

Click "University of Illinois at Chicago (UIC)"

Sign in using the student's Enterprise ID and password

Click "Financial Aid"

Applying for Financial Aid

Eligibility

Students must meet the following minimum criteria to be considered for the federal, state, and University programs outlined later in detail:

- Be a United States citizen or eligible noncitizen
- Be making satisfactory academic progress
- Be enrolled in a degree-granting program
- Not be in default on any Title IV loans
- Not owe repayment of any Title IV funds
- Be registered with Selective Service (if required)

The Free Application for Federal Student Aid

Students who wish to receive financial aid must complete the Free Application for Federal Student Aid (FAFSA). This is the only application necessary to be considered for the majority of the awards provided at UIC.

FAFSAs are available on January 1 of each year (for classes beginning the following September). The priority application deadline for financial aid is March 1 of each year. OSFA will begin mailing award letters to students in March of each year (for classes beginning the following September). The financial aid process may be lengthy; it is governed by federal, state, and institutional regulations. The process from application to disbursement will take up to 8 weeks from either the first day of classes or from the application date. The financial aid process can be further delayed if students do not return required documentation in a timely manner (2 to 4 business days). Additional document requirements will be discussed later.

The Online FAFSA

OSFA recommends that students complete the FAFSA online. Completing the application online reduces processing time and errors. Students can complete the online FAFSA at the following address:

FAFSA Web Site: <http://www.fafsa.ed.gov>

Although OSFA recommends that students complete the FAFSA online, paper FAFSAs are available in the reception area of OSFA.

To complete the FAFSA online, students will need a Personal Identification Number (PIN) from the Department of Education. Students can also request a PIN online. The PIN will be sent to the student via e-mail and regular mail. It usually takes less than 48 hours to receive a PIN by e-mail. For dependent students completing the online FAFSA, at least one parent must also have a PIN. Students and parents can request a PIN online at the following address:

FAFSA PIN Web Site: <http://www.pin.ed.gov/PINWebApp/pinindex.jsp>

Matching Students' FAFSA Applications

Important Note: It is vital that students consistently report their Name, Social Security Number, and Date of Birth. A FAFSA application must exactly match both a permanent student record at UIC as well as a permanent Social Security record. If they do not exactly match, the application will not be processed.

UIC's School Code

Students must include this school code in order for their application information to be sent to UIC.

UIC's School Code is 001776.

Tax Information Reported on the FAFSA

Students will need to provide tax information from the previous year on their FAFSA. Dependent students must also provide their parents' tax information. If a student applies for financial aid before completing an annual tax form (or the parents' tax form for a dependent student), the student is encouraged to use estimates when completing the FAFSA to avoid missing deadlines.

For the purposes of financial aid, the Department of Education will determine if students are dependent on their parents or independent of their parents. Dependency status for financial aid purposes is not necessarily equivalent to dependency status for tax purposes. Also, dependency status is not a status of choice. A student is considered independent automatically for several reasons: working on a master's or doctorate program; being married; having legal dependents other than a spouse; being a military veteran; being an orphan or ward of the court; or born before a certain date as specified on the FAFSA. Students who do not meet one of these criteria, even if they live on their own and support themselves, are NOT considered independent for financial aid purposes. Occasionally a student not meeting one of the criteria will be considered independent. This is only done in extreme situations, which must be thoroughly documented. If a student thinks his or her situation warrants independent status, the student should make an appointment to discuss it with a financial aid counselor.

Additional Document Requirements

Under some circumstances, students are asked to provide additional documentation in order to qualify to receive financial aid. Tax documents and other information will be requested for evaluation.

Students should return the required documentation within 2 to 4 business days from initial correspondence. Awarding of financial aid is put on hold until all of the document requirements have been satisfied. Students may fax their documents in, mail them in, or drop them off in person either at the reception counter or during an appointment.

Applying for Summer Financial Aid

Students who wish to receive summer financial aid must complete a summer financial aid application in addition to the FAFSA. Students are not automatically offered summer financial aid after completing the FAFSA.

Summer financial aid applications are available in the reception area of OSFA on February 1 of each year with a priority deadline of March 1 (for classes beginning the following May). Summer financial aid programs are very limited. Primarily, summer financial aid consists of Direct Loans and Federal Work Study.

For additional details, please read the Summer Application packet available in OSFA.

Determining Financial Need

Needs Analysis

A financial need analysis is the first step to determining a student's eligibility for many of the federal, state, and institutional programs for which the student has applied. Financial need is the difference between the amount the student and the student's family can reasonably be expected to pay towards college expenses and the student budget or estimated cost of attendance.

The sum total of financial assistance a student receives from all sources (grants, scholarships, waivers, loans, and work study, etc.) cannot exceed the student budget or estimated cost of attendance.

Expected Family Contribution (EFC)

After completing the FAFSA, the Department of Education will calculate the student's Expected Family Contribution (EFC) based on the income, asset, and family information provided on the FAFSA. The EFC is a specific dollar value the student and the student's family are expected to contribute towards educational costs during a regular academic year. This is not the amount of money that a student will owe UIC.

Student Budget or Cost of Attendance (COA)

UIC will then determine an estimate of the expenses the student will face during a regular academic year at UIC. This estimate is called the student budget or cost of attendance. Here is a sample student budget of a student living on campus:

Tuition:	\$6,500
Fees:	\$2,250
Books and Supplies:	\$1,200
Room and Board:	\$9,100
Miscellaneous:	\$2,400
Budget Total:	\$21,450

OSFA has to make certain assumptions to create the student budget (the student's living arrangements, for example). If the student plans to live in the residence halls, room and board expenses may be higher than they would be if the student lived at home with family.

Calculating Financial Need

The student's financial need is determined by subtracting the EFC from the student budget as shown below:

Budget	\$21,450
Minus (-) EFC	\$4,500
Equals (=)	\$16,950

Change in Financial Situation

If the student (or the parents) experiences a change in financial situation, the student should contact the OSFA. Such situations would include, but are not limited to: unusually high medical expenses (not covered by insurance), recent unemployment, divorce/separation, or death of an immediate family member. The student's financial aid eligibility may be recalculated based on such changes.

Financial decisions, such as the purchase of a new car or home, are not considered "special circumstances."

Award Information and Revisions

Award Letter

Once the application information has been fully processed, i.e., all documents returned and needs-analysis performed by OSFA, the student will receive a financial aid award letter. This letter is a detailed listing of the student's financial aid eligibility at UIC.

Award Revisions

OSFA reserves the right to adjust the student aid package without prior notice. Packages are normally adjusted for one or more of the following reasons:

- The student did not respond to the Award Letter (mail back a signed copy of the Award Letter).
- OSFA learns of outside resources not originally taken into account, or the outside resource amount changes (for example, outside scholarships, tuition waivers, etc.).
- The student is no longer eligible for the aid awarded (i.e., no longer enrolled full time or in a degree-seeking program).

- Changes were made in institutional, federal, or state policies and/or regulations since the time of the original award.
- Changes were made by the student or by OSFA to the FAFSA information.

Award packages may be increased, decreased, or canceled for one of the reasons noted above, or for a variety of other reasons. If the award is adjusted, the student will be sent a "REVISED" Award Letter.

Major Financial Aid Programs at UIC

(see next page)

Award Maximums, Proration, and Duration of Eligibility (see next page)

Applying for Other Assistance

Other scholarship and assistance opportunities exist. Each program will have its own application process and qualifications. For information on other financial assistance contact:

- Individual colleges. Individual colleges may offer college or program specific scholarships. The College of Engineering, for example, has scholarship information available online http://www.uic.edu/depts/enga/current_students/scholarships.htm.
- Student support programs. The Latin American Recruitment and Educational Services Program (LARES), for example, has scholarship information available online <http://www.uic.edu/depts/lares/scholarships.htm>.
- The Office of Special Scholarship Programs <http://www.uic.edu/depts/oa/ssp/index>.
- The Scholarship Association for UIC <http://uic.edu/orgs/scholar/index.htm>.
- The Illinois Student Assistance Commission (ISAC) <http://collegezone.com/>.
- FastWeb <http://www.fastweb.com>.

There are many illegitimate scholarship programs designed to exploit money from interested parties. Only provide personal information to very reputable sources. Be wary of any scholarship that asks for payment or requests bank account or social security information.

Disbursement of Financial Aid and Refunds

After a student's file is completed, the financial aid funds will automatically disburse to the student's UIC billing account. Financial aid will first be credited toward any outstanding balance assessed to the account. In addition to tuition and fees, this balance may also include housing, meals, and late fees, among other things. 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 refund check.

Satisfactory Academic Progress (SAP) for Financial Aid

Basics of Satisfactory Academic Progress for Financial Aid

Federal and state regulations require the University to establish and implement a policy to measure whether students receiving financial aid are making satisfactory academic progress toward a degree. UIC has implemented Satisfactory Academic Progress standards necessary to evaluate a financial aid recipient's continued eligibility for funds. These standards apply to both full- and part-time

Major Financial Aid Programs at UIC

In this section, a review of the major financial aid programs at UIC is provided. This information is current as of the 2007–2008 Academic Year. This information changes annually.

Program	Eligibility	Annual Awarding
<ul style="list-style-type: none"> Federal Pell Grant 	<ul style="list-style-type: none"> Financial need Undergraduate First bachelor's degree Enrolled 6+ semester hours Summer awards possible 	<ul style="list-style-type: none"> Minimum: \$400 Maximum: \$4,050
<ul style="list-style-type: none"> Direct Loan, Subsidized 	<ul style="list-style-type: none"> Financial need Enrolled 6+ semester hours Summer awards possible 	<ul style="list-style-type: none"> Freshman: \$3,500 Sophomore: \$4,500 Junior/Senior: \$5,500
<ul style="list-style-type: none"> Direct Loan, Unsubsidized 	<ul style="list-style-type: none"> Enrolled 6+ semester hours Summer awards possible 	<ul style="list-style-type: none"> Dependent Students: <ul style="list-style-type: none"> Freshman: \$3,500 Sophomore: \$4,500 Junior/Senior: \$5,500 Independent Students: <ul style="list-style-type: none"> Freshman: \$7,500 Sophomore: \$8,500 Junior/Senior: \$10,500
<ul style="list-style-type: none"> Federal Work Study 	<ul style="list-style-type: none"> Financial need Undergraduate First bachelor's degree Summer awards possible 	<ul style="list-style-type: none"> Minimum: \$600 Maximum: \$4,000
<ul style="list-style-type: none"> Federal Perkins Loan 	<ul style="list-style-type: none"> Financial need Undergraduate First bachelor's degree Enrolled 6+ semester hours Summer awards possible 	<ul style="list-style-type: none"> Minimum: \$200 Maximum: \$4,000
<ul style="list-style-type: none"> Monetary Award Program (MAP) 	<ul style="list-style-type: none"> Illinois resident Financial need Undergraduate First bachelor's degree Enrolled 3+ semester hours 	<ul style="list-style-type: none"> Minimum: \$150 Maximum: \$4,968 (06/07)
<ul style="list-style-type: none"> UIC Grant 	<ul style="list-style-type: none"> Illinois resident Financial need Undergraduate First bachelor's degree Enrolled 6+ semester hours 	<ul style="list-style-type: none"> Amount varies

Award Maximums, Proration, and Duration of Eligibility

Program	Aggregate Lifetime Maximum	Proration	Duration of Eligibility
<ul style="list-style-type: none"> Federal Pell Grant 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> 12+ Hours: 100% 9 to 11 Hours: 75% 6 to 8 Hours: 50% 1 to 5 Hours: 25% (in some cases) 0 to 5 Hours: 0% 	<ul style="list-style-type: none"> 180 Attempted semester hours
<ul style="list-style-type: none"> Direct Loan, Subsidized 	<ul style="list-style-type: none"> \$23,000 	<ul style="list-style-type: none"> 6+ Hours: 100% 0 to 5 Hours: 0% 	<ul style="list-style-type: none"> Until aggregate lifetime maximum is reached
<ul style="list-style-type: none"> Direct Loan, Unsubsidized 	<ul style="list-style-type: none"> Dependent: \$23,000 Independent: \$46,000 	<ul style="list-style-type: none"> 6+ Hours: 100% 0 to 5 Hours: 0% 	<ul style="list-style-type: none"> Until aggregate lifetime maximum is reached
<ul style="list-style-type: none"> Federal Work Study 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> 6+ Hours: 100% 0 to 5 Hours: 0% 	<ul style="list-style-type: none"> 180 Attempted semester hours
<ul style="list-style-type: none"> Federal Perkins Loan 	<ul style="list-style-type: none"> \$20,000 	<ul style="list-style-type: none"> 6+ Hours: 100% 0 to 5 Hours: 0% 	<ul style="list-style-type: none"> Until aggregate lifetime maximum is reached
<ul style="list-style-type: none"> Monetary Award Program (MAP) 	<ul style="list-style-type: none"> Varies 	<ul style="list-style-type: none"> 15+ Hours: 100% 14 Hours: 93% 13 Hours: 87% 12 Hours: 80% 11 Hours: 73% 10 Hours: 67% 9 Hours: 60% 8 Hours: 53% 7 Hours: 47% 6 Hours: 40% 5 Hours: 33% 4 Hours: 27% 3 Hours: 20% 0 to 2 Hours: 0% 	<ul style="list-style-type: none"> Until student accrues 135 MAP Paid Semester Hours
<ul style="list-style-type: none"> UIC Grant 	<ul style="list-style-type: none"> Varies 	<ul style="list-style-type: none"> 6+ Hours: 100% 0 to 5 Hours: 0% 	<ul style="list-style-type: none"> Eight semesters

students. Types of aid covered by the policy include the following:

- Federal Direct Subsidized Loans
- Federal Direct Unsubsidized Loans
- Federal Perkins Loans
- Federal Parent's PLUS
- Grad PLUS
- Federal Nursing Student Loans
- Federal Work Study
- Academic Competitiveness Grant
- Federal Pell Grant
- Federal SEOG
- UIC Long Term Loan
- Illinois MAP Grant
- Student-to-Student Grant
- Illinois Incentive for Access Grant
- UIC Grant
- UIC Tuition Waivers
- UIC Scholarships
- National Smart Grant

Determination of Satisfactory Academic Progress for Financial Aid

A student's academic progress toward a degree for financial aid purposes will be monitored using three criteria: Course Work Completion Rate for Financial Aid, Grade Point Average (GPA) Requirement for Financial Aid, and Degree Completion Time-Frame Requirements for Financial Aid. Failure to meet any one of the standards may result in the cancellation of the student's financial aid.

Course Work Completion Rate for Financial Aid

A student must successfully complete at least 75% of the hours attempted each academic year. Hours attempted are defined as the hours a student is registered for on the tenth day of classes (classes added after that date will also be included). Successfully completed is defined as the total number of hours in which a student receives a grade of A, B, C, D, S, or CR (DFR will be considered an acceptable grade for graduate students only). If a student fully withdraws (drops all courses) from the term on or after the first day of classes, all courses are counted as attempted. If a student drops courses after the tenth day of classes, the dropped course(s) will be counted toward the total hours attempted. Incomplete courses and repeat courses are also included in hours attempted.

The standard of 75% will be monitored cumulatively at the end of each academic year (spring semester). If a student is below 75%, the student will be put on probation for one year. If, at the end of the probation period, a student is still below the cumulative 75% standard, the student's aid will be canceled. Aid will be reinstated once the student has achieved the 75% cumulative completion rate.

Grade Point Average (GPA) Requirement for Financial Aid

The student's cumulative GPA will be evaluated at the end of each term. Once a student has attempted two years, the GPA must be at least 2.00/4.00. If the GPA falls below 2.00, the student's aid will be canceled. Aid will be reinstated once the student has achieved a 2.00 cumulative grade point average.

Degree Completion Requirements for Financial Aid

A UIC student must complete a bachelor's degree within 180 semester hours. Students attempting to earn a second bache-

lor's degree must complete the degree within the number of hours remaining of the 180 hours allowed for the first bachelor's degree. Exceptions may be made for those programs that require more than 120 semester hours to complete the degree requirements.

Appeal Procedure

Students who do not meet SAP standards at any point during the academic year will be notified by mail of their cancellation status. This notification is mailed at the end of the term during which the student fails to meet the SAP standards. OSFA will only send students notification of their cancellation status once—if a student does not resolve their SAP status, they will not continue to receive cancellation letters during future semesters in which they are canceled. Students who wish to appeal being placed on cancellation status must complete the following procedures within 10 calendar days from the date postmarked on the notification letter sent from OSFA. Students must submit a signed, typewritten, and dated letter of appeal along with supporting documentation to OSFA indicating reason(s) why they did not meet the Standards of Academic Progress. Students may appeal for an emergency condition, family catastrophe, etc.

Documentation verifying the situation must be submitted with the appeal letter. Appeals will be considered by the Satisfactory Progress Appeal Committee, which meets at least twice a term, and once during the summer term. The Committee reserves the right to request additional documentation as needed. Submitting falsified documents to the Committee with result in disciplinary action taken. Any appeals received after the eighth week of the term will not be considered until the following term. OSFA will promptly notify the student in writing of the Committee's decision.

Appeal deadlines. Materials must be stamped as received in OSFA or postmarked on or before the following dates: fall term aid—June 1, spring term aid—January 15, summer term aid—June 1.

Withdrawal Billing Policy

If students withdraw, stop attending classes, or are dismissed by the University, they will be billed for any amount of their Federal/State aid that is considered "advance" payment. Students should come to the OSFA and meet with a financial aid counselor to discuss the potential impact withdrawing from all courses will have on their financial aid award and future eligibility. When withdrawing from the University, students' charges will be prorated based on the time of the term in which they withdraw. See the Pro Rata Refund Schedule listed in the *Schedule of Classes*. Students will also be charged an administrative fee equal to \$100, or 5% of their charges, whichever is less.

Reduced Enrollment (Refund Reduction) Policy

If students reduce their hours after their financial aid has been paid, their paid awards will be prorated based on their new reduced enrollment. If a student is considering dropping classes and is receiving financial aid, the student should contact OSFA to determine if and how his or her aid package will be affected.

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. During the eight-week summer session, the classroom period is 100 minutes for lecture/discussion. 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 credit in ENGL 160 (3 hours) for a sub-score of 27 or higher on the ACT English exam or a score of 610 or higher on the SAT Verbal exam.

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)
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)
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)

Advanced Placement (AP) *continued*

Exam	Score	Course Equivalent
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	4–5	College of Business Administration IDS 270 (4 hours)
	3–5	All other colleges STAT 101 (4 hours)

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)

International Baccalaureate Exams (IB) *continued*

Exam	Score	Course Equivalent
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 6–7	GER 211 (3 hours) GER 211 (3 hours) GER 318 (3 hours)
Subsidiary Level	4–5 6–7	GER 211 (3 hours) 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 Service 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/U** **Satisfactory/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*/U** **Satisfactory/Unsatisfactory.** 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, the instructor will assign an F 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 (fifth day for summer session) 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
6–10 ^a	Summer session	Full-time status
11 or less	Fall and spring semesters	Part-time status
5 or less	Summer session	Part-time status

^a Enrollment in more than 18 semester hours in fall or spring, or more than 10 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>.

Academic Planning

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 advisers 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 adviser. 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 adviser before making a final decision. Advisers 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 advisers 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 adviser 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. Centered in the colleges, the 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 Adviser and Scheduling Appointments

Academic advisers 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 should plan to meet with an academic adviser 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 adviser.
- 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 adviser. Advisers 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 adviser if receiving financial aid.
- Remember that advisers 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 adviser 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.

Online Academic Planning Resources

Course Applicability System

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

Students can create CAS accounts at <https://uic.transfer.org:8443/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.

Degree Audit and Reporting System

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 adviser each semester to select courses for the following semester.

Online Catalog, Course Descriptions, and Schedule of Classes

The *2007–2009 Undergraduate Catalog* can be found online <http://www.uic.edu/ucat/catalog/>. The online catalog 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://osssorawebprod2.admin.uillinois.edu/webforstudent/UICScheduleofClasses.asp>.

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 2006 numbered about 2,240,000 books and bound periodicals; 775,000 government publications; 188,000 maps; and an extensive collection of microform materials. The University Library currently receives more than 63,000 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 57,000 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 65 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 more than 3,800,000 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

both Unix systems and personal computers. Students may use the ACCC facilities for e-mail, writing papers, online research, producing resumes, publishing personal Web pages, or just learning more about computers and computing in general. The ACCC also provides Internet connections for students living in the UIC residence halls and a wireless network in public areas on campus.

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>.

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 and 179
- Education, Performing Arts & Social Work (EPASW)—1040 West Harrison Street, Room L270
- 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 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, programming languages, Web publishing, Web browsing, and remote login and file transfer. All the labs have convenient networked printers. 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/plclabs/> 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 connections in the student residence halls; see 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. Minimal charges are also made for the purchase of some of the software packages that the ACCC distributes under University site-license agreements at the E-Sales online software store <http://e-sales.accc.uic.edu/>.

A number of ACCC Unix workstations 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 provides an environment for faculty and faculty-sponsored students to run computationally intensive programs. A UIC netid and an ACCC password are required to access many UIC and U of Illinois online and Web services and information sources. The ACCC also maintains the main Web servers for UIC.

Additionally, the ACCC operates the high-speed UIC campus-wide computer communications network, tying servers, personal computers, local area networks (LANs), and distributed printers to each other, to the ACCC's Unix workstations, 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. The ACCC maintains over 1100 dialup lines that provide full access to the Internet from off campus. These ACCC network connections may be used at no charge, other than any applicable telephone connection charges for the dial-up telephone calls. For a small monthly fee, students living in all campus residence halls may obtain a personal Res-Net high-speed Internet connection, as well as access to the same software available in the public computing labs to use in their room. The UIC computer network, the ACCC distributed printing system, and the dial-up telephone lines are 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 workstations. All of the ACCC e-mail servers can be accessed both on and off campus. E-mail can be accessed in several ways: by logging in to a Unix server and using Pine, from a personal computer using an e-mail client such as Eudora, 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. The ACCC e-mail Web 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 the ACCC e-mail servers. 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 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. Students must obtain their ResPhone password to make off-campus direct-dialed metropolitan, long distance, and international calls. If students living in the residence halls wish to make calls from their rooms to off-campus telephones, they should use the ResPhone Web page <http://resphone.accc.uic.edu/>.

To get started, students should go to one of the ACCC public personal computer facilities to receive and activate

the UIC NetID, select an ACCC common password, and open an ACCC e-mail account if desired. A 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 the 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 session. Enrolling in summer courses is a good way for students to catch up or get ahead in their academic studies. Students might also consider enrolling in summer to help manage a heavy course load during the fall or spring. Although the summer session is shorter in length, 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 adviser.

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 10 semester hours over the summer without special approval.

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 10 semester hours without special approval.

Registering for Summer Courses

To register for summer classes, students use *Student Self-Service*, the University's Web-based registration system that is accessible through *UIC Web for Student*. To use this system, students will first need to establish two IDs with passwords: a NetID and an EnterpriseID. Current students should already have a NetID and an EnterpriseID. Visiting students are able to establish these IDs and passwords after receiving their notice of admission for the summer 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 200 programs in over 50 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 adviser, 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 inter-

cultural 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

Illinois Institute of Technology
10 West 31st Street
Stuart Building, Room 208
Chicago, IL 60616
(312) 567-3525
<http://www.afrotc.iit.edu/>

The Air Force ROTC program is available to all full-time students who desire to earn, upon graduation, a commission as a second lieutenant in the U.S. Air Force. Full-tuition Illinois state scholarships and federal scholarships that pay full tuition and fees, all textbook costs, and monthly subsistence allowance are available to qualified students.

The University of Illinois at Chicago has a cross-town agreement with the Department of Aerospace Studies at the Illinois Institute of Technology, which allows for students to be enrolled at UIC and take the Aerospace courses at the Illinois Institute of Technology.

All Air Force ROTC classes are offered only at the Illinois Institute of Technology, thus students will be enrolled at IIT on a part-time basis. Freshman and sophomore classes as well as leadership labs are normally held on Thursday afternoons. Junior and senior classes are normally held on Tuesday afternoons. The leadership laboratory is mandatory for all AFROTC students. For further information, contact the Department of Aerospace Studies, Illinois Institute of Technology, 2nd floor, Stuart Building, 10 West 31st Street, Chicago, Illinois.

The mission of ROTC is to produce leaders for the Air Force and build better citizens for America. Students who become cadets have the opportunity to earn a commission in the United States Air Force while earning their baccalaureate degrees. Most graduates who enter the Air Force through this program are assigned to positions consistent with their academic majors. Interested, qualified graduates may enter as pilots or navigators.

While in Air Force ROTC, students gain an understanding of the fundamental concepts and principles of Air and Space, a basic understanding of associated professional knowledge, a strong sense of personal integrity, honor, and individual responsibility, and an appreciation of the requirements for national security.

Four-Year Program

The four-year program consists of a four-semester General Military Course (GMC) and a four-semester Professional Officer Course (POC). Students 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 an assigned Air Force Base before being awarded POC status. This requirement is normally fulfilled the summer after completing the sophomore year and before beginning the 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.

Two-Year Program

This program is designed for undergraduate and graduate students with fewer than three, but at least two, years of course work remaining towards their degree. Completion of this program requires a six-week summer field training encampment and the four-semester POC. The six-week field training session is normally and preferably the summer prior to the start of the junior year (or first semester of the POC), but may be completed the following summer. The major areas of study for the six-week encampment are the same as the four-week encampment with the addition of the GMC curriculum. Interested students should contact the Department of Aerospace Studies at the Illinois Institute of Technology during the fall term of their sophomore year.

Scholarship Opportunities

The Air Force ROTC High School Scholarship Program (HSSP) offers four- and three-year scholarships for qualified high school graduates interested in an Air Force career. Additionally, the In-College Scholarship Program (ISCP) offers a variety of scholarships to students who are already enrolled in college. Students interested should contact Air Force ROTC Detachment 195 at (312) 567-3525 or afrotc@iit.edu. Students can also visit the Air Force ROTC Web site <http://www.afrotc.com>.

The state of Illinois offers special incentives to future Air Force officers. If you are an Illinois resident and attend UIC, you may apply for a scholarship. The state scholarship pays your tuition. To receive more information and apply, contact the AFROTC detachment.

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
jmikos@uic.edu
<http://www.uic.edu/depts/rotc>

Administration: LTC John Mikos, Professor of Military Science

CPT Thomas MacMillan, 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 object 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.

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. Naval

Reserve, 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. Naval Reserve, 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) 413-0031

<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
- Academic Achievement Program: Workshop series for students on probation
- Academic advising/counseling 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 the admission process until graduation. Its mission is to provide academic and personal support mechanisms that enable students to better navigate through UIC. 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

(312) 355-5025

ytt@uic.edu

The CHANCE Learning Center is a comprehensive program that provides 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 (Scholar Bright), career development, peer-to-peer mentoring, access to professional workshops, seminars, conferences, health and wellness series, and professional tutors in all subject areas.

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 seven days a week.

Language Laboratory

304 Douglas Hall (DH)

(312) 996-8838

www.uic.edu/depts/langlab/

The Language Laboratory provides audio and computer-based materials for foreign-language students and students needing additional study in English. This service is intended to supplement regular classroom work as an integral part of the acquisition of language skills. Students using the laboratory practice their language skills by means of lessons geared to their course work. In addition, computer-assisted language learning materials are available for nearly all of the languages taught at UIC. The Tape Check-Out System allows students to take home copies of their lessons on audiocassettes for individual study. For more information, students should visit the Web site.

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 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 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

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 7:30 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 Business

Check Web site, call (312) 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 (312) 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 (312) 413-2260, or go to 220 Burnham Hall (BH) for information.

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

Learning Resource Centers (Campus Housing)

East Campus: (312) 996-2971, lower level of Commons N & S Residence Hall; West Campus: (312) 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

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

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) 413-7452

College of Nursing

754 College of Nursing (NURS)
(312) 413-7859

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) 996-6081

Early Outreach Program

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

The UHP mission is to improve the quality of healthcare services for medically underserved urban populations by expanding health professions education opportunities for underrepresented groups and others interested in serving in health professions shortage areas of Illinois. The ultimate goal is to train a cadre of healthcare professionals and masters and doctoral graduates 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

The UHP reaches students at an early stage in their education and helps them develop the basic skills necessary to prepare for a career in the health professions. It seeks to identify promising underrepresented and economically disadvantaged students from fourth grade through high school, junior colleges, and universities/colleges who exhibit the interest and potential for completing a health education curriculum.

Writing Center

100 Douglas Hall (DH)
(312) 413-2206

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

At the Writing Center, students work collaboratively with peer tutors to become better writers. Students can bring in 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 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.vcsa.uic.edu>

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.vcsa.uic.edu/MainSite/departments/ace/home/>

African American Academic Network (AAAN)

2800 Student Services Building (SSB)

(312) 996-5040

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

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/oaa/AARCC/>

Athletics

Intercollegiate Athletics

240 Flames Athletic Center (FAC)

(312) 996-2772

<http://www.uicflames.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 217, Medical Center Administration (MCA)

(312) 996-4915

<http://www.uic.edu/hsc/campuscare/>

Campus Programs

Campus Programs—East

318 UIC Student Center East (SCE)

(312) 413-5070

http://www.vcsa.uic.edu/MainSite/departments/campus_unions/sub_campus_programs/Home/

Campus Programs—West

50 UIC Student Center West (SCW)

(312) 413-5180

http://www.vcsa.uic.edu/MainSite/departments/campus_unions/sub_campus_programs/Home/

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://www.uic.edu/aa/artd/advisors.html>

Student Employment

2200 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.vcsa.uic.edu/MainSite/departments/children_center/home/

Children's Center—West

116 Applied Health Sciences Building (AHSB)

(312) 413-5330

http://www.vcsa.uic.edu/MainSite/departments/children_center/home/

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/oa/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 and Wellness

Student Recreation Facility (SRF)
(312) 413-5150
http://www.vcsa.uic.edu/MainSite/departments/student_centers/sub_campus_recreation/Facilities/

UIC Student Center West (SCW) Sport and Fitness Center

(312) 413-5260
<http://srec.ops.uic.edu/rec/sportfitness.htm>

South Field Complex

http://www.vcsa.uic.edu/MainSite/departments/student_centers/sub_campus_recreation/Facilities/South+Field+Complex.htm

Wellness Center

238 UIC Student Center East (SCE)
(312) 413-2120
http://www.vcsa.uic.edu/MainSite/departments/student_development_services/sub_wellness_center/home/

Office of Gay, Lesbian, Bisexual, and Transgender Concerns

1180 Behavioral Sciences Building (BSB)
(312) 413-9862
<http://www.glbc.uic.edu>

Health Services

Student Health at the Family Medicine Center
Outpatient Care Center, 1801 W. Taylor Street, Suite 4E
AND
University Village, 722 West Maxwell Street,
Suite 235
(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.vcsa.uic.edu/MainSite/departments/campus_housing/home/

Identification for Students/i-card Services

Photo ID Office—East

1790 Student Services Building (SSB)
(312) 413-5940
http://www.vcsa.uic.edu/MainSite/departments/photo_id/home/

Photo ID Office—West

241 UIC Student Center West (SCW)
(312) 413-5944
http://www.vcsa.uic.edu/MainSite/departments/photo_id/home/

International Students

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

Language Laboratory

304 Douglas Hall (DH)
(312) 996-8838
<http://www.uic.edu/depts/langlab/>

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 St.
Hours: (312) 996-0304
Circulation: (312) 996-2724
Reference: (312) 996-2726
<http://www.uic.edu/depts/lib/mainlib/>

Library of the Health Sciences

1750 W. Polk St.
(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 S. Morgan St., Ste. 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

217 Student Residence Hall Building (SRH)
(312) 413-5850
<http://www.uic.edu/depts/avcad/parking/>

Photo ID

See Identification for Students/i-card Services.

Placement Tests

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

Recreation

Intramural Sports

Campus Recreation Office
105 Student Recreation Facility (SRF)
(312) 413-5150
http://www.vcsa.uic.edu/MainSite/departments/student_centers/sub_campus_recreation/Programs/

See also Student Centers.

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/oaa/ssp/>

Student Affairs

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

Student Centers

UIC Student Center East (SCE)

750 S. Halsted St.
(312) 413-5100
http://www.vcsa.uic.edu/MainSite/departments/campus_unions/home/

UIC Student Center West (SCW)

828 S. Wolcott Ave.
(312) 413-5200
http://www.vcsa.uic.edu/MainSite/departments/campus_unions/home/

Campus Recreation Bowling and Billiards Center

UIC Student Center East (SCE)
(312) 413-5170
http://www.vcsa.uic.edu/MainSite/departments/student_centers/sub_campus_recreation/Facilities/

Student Development Services

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

Student Financial Services and Cashier Operations

1900 Student Services Building (SSB)
(312) 996-2515
<http://www.obfs.uillinois.edu/usfsc/index.html>

Student Health Insurance

See CampusCare Student Health Benefit Program.

Student Identification

See Identification for Students/ i-card Services.

Student Information Network Center

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

AND

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

Student Organizations and Student Life

Campus Programs—East

318 UIC Student Center East (SCE)
(312) 413-5070
http://www.vcsa.uic.edu/MainSite/departments/campus_unions/sub_campus_programs/Home/

Campus Programs—West

50 UIC Student Center West (SCW)
(312) 413-5180
http://www.vcsa.uic.edu/MainSite/departments/campus_unions/sub_campus_programs/Home/

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.summer.uic.edu>

Testing Service

See Placement Tests.

TRIO

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

U-Pass Information

2560 Student Services Building (SSB)
(312) 413-8658
<http://www.vcsa.uic.edu/MainSite/departments/Upass/home/>

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 Student Development Services.

Office of Women's Affairs

802 University Hall (UH)
(312) 413-1025
<http://www.uic.edu/depts/owa/>

Writing Center

100 Douglas Hall (DH)
(312) 413-2206
<http://www.uic.edu/depts/engl/writing/>

General Education: Setting the Foundations for University Study

New General Education Program at UIC for Fall 2007

Who follows the new General Education Program?

UIC has instituted a new General Education Program. The new program is effective for freshman matriculating at UIC in the Fall 2007 semester and for transfer students in the Fall 2009 semester. Transfer students who matriculate 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 should use this section of the catalog to understand each of the new General Education categories and to select the courses from each category. Transfer students and 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.

- Analyzing the Natural World
- Understanding the Individual and Society
- Understanding the Past
- Understanding the Creative Arts
- Exploring World Cultures
- 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 arrive 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 = Indicates courses specifically designed for those majoring in areas other than science and mathematics.

h = LAS nonlaboratory courses.

Anthropology (ANTH)

105	Human Evolution	5 hours ^g
238	Biology of Women <i>Same as GWS 238</i>	3 hours ^g

Biological Sciences (BIOS)

100	Biology of Cells and Organisms	5 hours
101	Biology of Populations and Communities	5 hours
103	Human Development and Reproduction	5 hours ^g
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

Mathematical Computer Science (MCS)

260	Introduction to Computer Science	4 hours ^h
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Mathematics (MATH)

150	Finite Mathematics	3 hours ^g
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
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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 Criminal Justice System <i>Same as CRJ 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
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 Meso-America <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

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

General Education: Setting the Foundations for University Study

Gender and Women's Studies (GWS)

101	Gender in Everyday Life	3 hours ^f
102	Global Perspectives on Women and Gender	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

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
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
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

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
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
241	Social Inequalities	3 hours ^f
244	Work in a Changing Society	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 Society	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
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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 (AAS)

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
251	African Americans and the Law to 1954 <i>Same as POLS 251</i>	3 hours ^f
252	African Americans and the Law since 1954 <i>Same as POLS 252</i>	3 hours ^f
263	African American Intellectual History <i>Same as HIST 263</i>	3 hours ^c
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	3 hours ^e
105	Human Evolution	5 hours ^a

Archaeological Studies (ARST)

210	The Art and Archaeology of Ancient Egypt <i>Same as AAST 210 and AH 210</i>	3 hours ^d
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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
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
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Gender and Women's Studies (GWS)

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

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

General Education: Setting the Foundations for University Study

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	Pre-Colonial 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

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
141	Honors Core in Understanding the Past	3 hours

Jewish Studies (JST)

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
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Native American Studies (NAST)

113	Native American Studies: Sovereignty	3 hours ^{ef}
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Philosophy (PHIL)

120	Introduction to Ancient Philosophy <i>Same as CL 120</i>	3 hours ^b
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Political Science**(POLS)**

120	Introduction to Political Theory	3 hours ^b
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Religious Studies (RELS)

120	Catholic Thought: An Introduction <i>Same as CST 120</i>	3 hours
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Spanish (SPAN)

231	Civilization and Culture of Spanish America	3 hours ^e
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Theatre (THTR)

109	Introduction to Theatre	3 hours ^d
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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?

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)**

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

Archaeological Studies (ARST)

210	The Art and Archaeology of Ancient Egypt <i>Same as AAST 210 and AH 210</i>	3 hours ^c
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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	Medieval Art and Architecture I	3 hours
243	Medieval Art and Architecture II	3 hours
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
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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 Fiction	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 II	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

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
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
227	Music Cultures of the World	3 hours

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
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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
260	Meso-American 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.

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)		
229	Africa and Its Diasporas <i>Same as HIST 229</i>	3 hours ^c

Anthropology (ANTH)

100	The Human Adventure	3 hours ^{bc}
101	World Cultures: Introduction to Social	3 hours ^b
102	Introduction to Archaeology	3 hours ^c
214	Sex and Gender in World Cultures <i>Same as GWS 214</i>	3 hours ^b
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 Meso-America <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
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Art History (AH)

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 Meso-America <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
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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 French Literature I	3 hours ^d

Gender and Women's Studies (GWS)

102	Global Perspectives on Women and Gender	3 hours ^b
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Geography (GEOG)

100	Concepts in Geography	3 hours ^b
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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	Pre-Colonial 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

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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
143	Honors Core in Exploring World Cultures	3 hours

Human Nutrition (HN)

202	Culture and Food	2 hours
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Japanese (JPN)

215	Japanese Language and Culture <i>Same as LING 215</i>	3 hours
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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
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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
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Native American Studies (NAST)

113	Native American Studies: Sovereignty	3 hours ^{cf}
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Philosophy (PHIL)

141	Philosophy and Revelation: Jewish and Christian Perspectives <i>Same as RELS 141 and JST 141</i>	3 hours ^b
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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
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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
231	Civilization and Culture of Spanish America	3 hours ^c
260	Meso-American 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 (AAST)

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
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
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 Criminal Justice System <i>Same as CRJ 271 and SOC 271</i>	3 hours ^b
272	Race, Gender, and Sexuality <i>Same as GWS 272</i>	3 hours ^b

Anthropology (ANTH)

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
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Criminal Justice (CRJ)

101	Introduction to the Justice System	3 hours
102	Foundations of Criminal Justice	3 hours
110	Legal Rights and Responsibilities	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
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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)

135	Child and Youth Policies in Urban America	3 hours
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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	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
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

General Education: Setting the Foundations for University Study

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}

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
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
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Native American Studies (NAST)

113	Native American Studies: Sovereignty	3 hours ^{ce}
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Political Science (POLS)

101	Introduction to American Government and Politics	3 hours ^b
103	Who Rules?: Introduction to the Study of Politics	3 hours

Sociology (SOC)

100	Introduction to Sociology	3 hours ^b
105	Social Problems	3 hours ^b
224	Gender and Society <i>Same as GWS 224</i>	3 hours ^b
225	Racial and Ethnic Groups <i>Same as LALS 225</i>	3 hours ^b
228	Sociology of Asia and Asian Americans <i>Same as ASST 228</i>	3 hours ^b
241	Social Inequalities	3 hours ^b
244	Work in a Changing Society	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 Society	3 hours ^b
276	Urban Sociology	3 hours ^b

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.

Grade Forgiveness

Students who do not meet the grade point average requirement may graduate if they satisfy the minimum GPA in accordance with the following policy:

1. Not earlier than the term immediately preceding the one in which the student plans to graduate, and at the student's request, a maximum of 11 semester hours of courses taken at UIC with the grade of D or F in any one specific semester, excluding the last 30 semester hours of degree work, need not be counted toward graduation requirements.

- The grades for the selected courses will not be calculated in the student's cumulative GPA.
- The student, however, must substitute other courses for the degree in order to meet the minimum semester hour requirements of the appropriate college.
- Substitutions for courses used as credit toward General Education requirements, toward college or University degree requirements, or for the major must be approved by the major department and the college dean. The GPA after the substitution must be 2.00/4.00 for graduation, except in those degree programs where a higher GPA is required.
- All grades in courses taken at UIC, however, will remain on the transcript.
- University, college, or departmental honors will be awarded on the total cumulative GPA.

Repeating a Course

If a student is granted permission by the dean of his or her college to repeat a course for which the student has already received credit either by class work at UIC or by advanced standing previously allowed for work done elsewhere, the student forfeits the original credit. Both grades are counted in the student's cumulative grade point average. Unless otherwise stipulated in course descriptions, credit may be granted only once for repeated courses. If a course is repeated more than once, all grades received, pass or fail, are computed in the student's cumulative grade point average. For the specific college requirements that must also be met, see the appropriate sections of this catalog.

Second Bachelor's Degree

A student in any college of the University of Illinois at Chicago can earn a second bachelor's degree either concurrent with or subsequent to the first bachelor's degree. The second degree may be earned either in the college that offered the first degree or in another college. The following provisions must be met:

- 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 department.
- The student who has received a bachelor's degree at another institution must meet all enrollment residence and course requirements at UIC.
- The student who plans to earn two degrees concurrently in separate colleges must enroll in the first college, the college of record, and must receive written authorization from the dean of the second college at least one year prior to the intended graduation date.

When a student requests permission to earn a second bachelor's degree in another college, the second college should base its admission decision upon normal requirements of the college. The college of record will provide, at the student's request, copies of the student's current records to the second college in order that it may maintain an advising file for the student. The student will be responsible for notifying the second college of his or her intention to graduate.

In all instances, the student is responsible for making arrangements with the second department in which he or she enrolls. Each department retains the right to determine the requirements of the additional field of specialization above course distribution and enrollment residence requirements.

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 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 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. See online catalog <http://www.uic.edu/ucat/catalog/GR.shtml> for a complete description of this policy.

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

Human Nutrition: (312) 996-8055

Movement Sciences: (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 is a leader in applied rehabilitation and disability studies. The college houses six departments: Biomedical and Health Information Sciences, Disability and Human Development, Human Nutrition, Movement Sciences, 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, human nutrition, movement sciences, occupational therapy, and physical therapy. The college offers three bachelor's degrees, seven master's degrees, and five 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 the health information management and human nutrition Coordinated Programs. 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 human 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 Movement Sciences and Human Nutrition departments. 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 Movement Sciences accepts students at the freshman and transfer level and awards the BS in Movement Sciences degree. There are two concentrations available in the Movement Sciences 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 Department of Human Nutrition admits students to the Nutrition Science program at the transfer level only and awards the BS in Human 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 later in this 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 Applied Health Sciences students are outlined below. Students should consult the major department section for additional degree requirements.

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 Sciences	BS in Health Information Management	122
Human Nutrition—Coordinated Program	Human Nutrition	BS in Human Nutrition	138
Human Nutrition—Nutrition Science	Human Nutrition	BS in Human Nutrition	120
Movement Sciences—Movement Science	Movement Sciences	BS in Movement Sciences	120
Movement Sciences—Exercise and Fitness	Movement Sciences	BS in Movement Sciences	120

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 Movement Sciences curriculum must be taken at the 300- or 400-level. Human Nutrition and Health Information students follow a prescribed curriculum.

Full-Time Enrollment

The Human Nutrition—Coordinated Program and the Health Information Management program are full-time, day programs. A part-time progression program is available for Registered Health Information Technicians (RHIT) in the Health Information Management program. 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 Movement Sciences program and Human Nutrition—Nutrition Science programs can be completed on a part-time basis.

Grade Point Average (GPA) Requirement

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.

Graduation Declaration/Filing to Graduate

Students declare their intent to graduate online using *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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 Movement Sciences must also declare their intent to graduate with their academic adviser at least one term prior to their intended graduation date.

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 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 Human 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 Management program who are currently Registered Health Information Technicians (RHITs).

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

Not all programs in the college allow students to be placed on academic probation (refer to the program's student handbook). In cases where applicable, academic probation designates the status of a student who has failed to attain the acceptable level of academic achievement as defined below:

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 grade point average during the probation semester that is sufficiently above 2.00 to maintain a grade point average of 2.00 or above for all work in the College of Applied Health Sciences.

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

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes

for fall and spring semesters, or through the end of week 1 during the summer semester. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer semester) students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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 departments, at the following locations, to make changes to their schedule: Health Information Management, Room 250 AHSB, (312) 993-7337; Human Nutrition, Room 647 AHSB, (312) 355-1908; and Movement Sciences, Room 337 PEB, (312) 996-4600. 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 Human Nutrition and Health Information Management programs in the fall term. Students are admitted to the Movement Sciences program in the fall and spring terms. Students who would like to change their major to Movement Sciences should meet with the academic adviser in Movement Sciences.

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 Human 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. Credit/no credit option requests must be completed prior to the 10th day of the term (5th day for summer session).

Declaring a Major

Admission to the Health Information Management and Human Nutrition programs provides automatic declaration of a major. Students in the Department of Movement Sciences must make an appointment with an academic adviser 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

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 receive written authorization from the dean of the second college at least one year prior to the intended graduation date.

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 Department of Movement Sciences 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. Petition forms are available on the AHS Web site <http://www.ahs.uic.edu> or in the AHS department offices.

Proficiency Examinations

The Health Information Management Program (HIM) offers proficiency examinations for some of its professional courses. Students interested in proficiency examinations for HIM should contact the 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 must meet with an academic adviser 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.

Repeating a Course

Students may repeat a course in which a failing grade or a grade of D (and thus credit) has been assigned. The original credit is forfeited in the case of D grade although both grades will be included in the cumulative grade point average and will remain on the student's permanent record. Any student planning to repeat a course a second time should see an academic adviser.

For selected programs in the college, a course for which a grade of D or F is received must be repeated with an earned grade of C or higher. Both grades will remain on the transcript. If a student in a professional program is unable to take further courses in the next occurring semester as a result of this policy, the student may be allowed to reenter the program at the next appropriate semester, or to reapply to the program as a new student. Students should contact their major department for more information.

Second Bachelor's Degree

Students seeking a second bachelor's degree are required to follow the same application procedures as all other applicants. Students must complete a minimum of 30 semester hours of credit beyond the requirements of their first degree and all of the major requirements for their second degree. Students who have received a bachelor's degree from another institution must also meet all residence requirements.

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 Service, 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 Service 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 a College of Applied Health Sciences programs. Students who would like to transfer to the Movement Science program should go to the Department of Movement Sciences office (337 PEB) to request an Intercollege Transfer form. Intercollege transfers 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.

All other AHS programs require a program-specific application form. 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 adviser. Students should then meet with an academic adviser 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 Movement Sciences majors. Advisers 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 handi-

capped 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 a preprofessional adviser 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
MVSC 251—Human Physiological Anatomy I ^{cd}	5
MVSC 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	3
One course in anthropology or sociology	3
Total Hours—Pre-Occupational Therapy	34

^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 MVSC 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 earned bachelor's degree in any field, CPR (cardiopulmonary resuscitation) certification with Health Providers Status, 3.00/4.00 GPA, 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 a preprofessional adviser to plan a course of study that fulfills the pre-physical therapy studies requirements as well as the requirements for the major.

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 ^b	5
PHYS 105—Introductory Physics I—Lecture ^b	4
PHYS 106—Introductory Physics I—Laboratory ^b	1
PHYS 107—Introductory Physics II—Lecture ^b	4
PHYS 108—Introductory Physics II—Laboratory ^b	1
PSCH 100—Introduction to Psychology ^c	4
PSCH 242—Introduction to Research in Psychology	3
One course in developmental or abnormal psychology, choose from the following:	
PSCH 270—Abnormal Psychology (3) ^c	3
PSCH 320—Developmental Psychology (3)	
MVSC 251—Human Physiological Anatomy I ^d	5
MVSC 252—Human Physiological Anatomy II ^d	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 This course is approved for the Understanding the Individual and Society General Education category.

^d MVSC 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)

taken within five years of the date of application. Students must apply for admission to the program approximately one year before planned enrollment.

Minors

The College of Applied Health Sciences offers a minor in Movement Science. The minor is open to majors from other departments and colleges. Refer to the list of eligibility requirements in the Department of Movement Sciences section of the catalog.

Minor	Department	Hours
Movement Science	Movement Sciences	19–23 ^a

^a One-half of the hours required for the minor must be completed in enrollment residence at UIC.

Academic Advising

Contact Information

Academic advising is provided at the department level. Students should contact their unit's program coordinator or academic adviser for more information on advising.

Advising Policy

All Applied Health Sciences students are required to meet with their academic adviser once each term, or as specified in their program handbook. Students on academic probation are required to meet with their academic adviser 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 adviser 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 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

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
Occupational, Physical Therapy and Movement
Sciences Students Organization (OPTIMSS)
Student Nutrition Association

DEPARTMENT OF BIOMEDICAL AND HEALTH INFORMATION SCIENCES

250 Applied Health Sciences Building (AHSB)
(312) 996-7337
bhis@uic.edu
<http://www.bhis.uic.edu>

Administration: Department Head, Annette Valenta;
Program Director, Health Information Management,
Karen Patena
Office of Student Services College of Applied Health
Sciences: Eileen Doran
Academic Adviser: 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 (RHIA) are responsible for the management of health information systems consistent with the medical, administrative, ethical, and legal requirements of the healthcare delivery system. RHIA 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. RHIA also provide health information to qualified users and safeguard confidential patient data. The job forecast for RHIA 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 550 on the paper-based test (PBT), 213 on the computer-based test (CBT), or 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	
	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
MVSC 251—Human Physiological Anatomy I ^c	5
MVSC 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 MVSC 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 310—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 332—Coding and Classification Systems	3
HIM 333—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 381—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 310—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	Hours
HIM 319—Alternative Health Records	4
HIM 320—Technical Affiliation	2
HIM 329—Legal Aspects of Health Information Management	3
HIM 332—Coding and Classification Systems	3
HIM 337—Analysis of Healthcare Data	4
Total Hours	16

Senior Year

Fall Semester	Hours
HIM 333—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 HUMAN NUTRITION

650 Applied Health Sciences Building (AHSB)
(312) 996-8055
kndep@uic.edu
<http://www.ahs.uic.edu/hn>

Administration: Main Office (312) 996-8055
Student Services and Academic Advising:
(312) 355-1908

The Department of Human 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.

BS in Human Nutrition

Coordinated Program Concentration

Accredited by the American Dietetic Association, the Coordinated Program requires students to complete six semesters of full-time study, which includes classroom work in conjunction with clinical 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, 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

Academic programs in human nutrition deal with the human body's basic life support system. 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 and epidemiological aspects of human diseases, a broad perspective on human biology (including cultural factors), and a strong clinical orientation. The nutrition science concentration prepares students for graduate study in nutrition, medicine, and dentistry, and can be tailored

to meet the American Dietetic Association Didactic Program in Dietetics requirements for entrance in a dietetic internship.

Transfer Admission Requirements

Students seeking admission to the Bachelor of Science in Human Nutrition programs must meet these minimum requirements:

- Sixty semester or 90 quarter hours of acceptable academic credit
- Cumulative grade point average of 2.50/4.00
- Successful completion of all the Pre-Human Nutrition Studies courses offered by the College of Liberal Arts and Sciences or the equivalents

The applicants' personal characteristics, motivation, academic background, and work experiences are factors evaluated in selecting candidates for admission into the Coordinated Program through recommendation and a required written interview.

Degree Requirements— Both Concentrations

To earn a Bachelor of Science in Human Nutrition degree from UIC, students need to complete University, college, and department degree requirements. The Department of Human Nutrition offers two major concentrations:

- Coordinated Program
- Nutrition Science

The Department of Human Nutrition degree requirements for both concentrations are outlined below. Students should consult the *College of Applied Health Sciences* section for additional degree requirements and college academic policies.

Pre-Human Nutrition 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
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 130—Survey of Organic and Biochemistry ^d	5
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	2
Electives	4
Total Hours—Pre-Human Nutrition Course Requirements	60

^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 CHEM 130 as a prerequisite for these courses. See CHEM 130 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 Human Nutrition— Coordinated Program Degree Requirements		Hours
Pre-Human Nutrition Course Requirements		60
Coordinated Program Required Courses		78
Total Hours— BS in Human Nutrition—Coordinated Program		138

Pre-Human Nutrition Course Requirements

See previous section *Pre-Human Nutrition Course Requirements* for a list of courses to meet this requirement.

Coordinated Program Required Courses

Courses	Hours
HN 200—Nutritional Assessment	3
HN 300—Science of Foods	3
HN 202—Culture and Food ^a	2
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 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 366—Genetics, Nutrition, and Health	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
BCMG 307—Fundamentals of Biochemistry	3
MVSC 251—Human Physiological Anatomy I	5
MVSC 252—Human Physiological Anatomy II	5
Total Hours—Coordinated Program Required Courses	78

^a This course is approved for the Exploring World Cultures General Education category

Sample Course Schedule— Coordinated Program

Junior Year

Fall Semester	Hours
BCMG 307—Biochemistry	3
MVSC 251—Human Physiological Anatomy I	5
HN 200—Nutritional Assessment	3
HN 308—Nutrition Science I	3
Total Hours	14

Spring Semester	Hours
MVSC 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
Total Hours	14

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
HN 366—Genetics, Nutrition, and Health	2
Total Hours	16

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 Semester:	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 Practice	2
HN 423—Clinical Nutrition Practice III	5
HN 450—Professional Practice	6
Total Hours	13

Degree Requirements—Nutrition Science Concentration

BS in Human Nutrition— Nutrition Science Degree Requirements		Hours
Pre-Human Nutrition Course Requirements		60
Nutrition Science Required Courses		60
Total Hours—BS in Human Nutrition—Nutrition Science		120

Pre-Human Nutrition Course Requirements

See previous section *Pre-Human 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 320—Clinical Nutrition I	4
HN 340—Seminar	1
HN 341—The Research Process	2
HN 366—Genetics, Nutrition, and Health	2
HN 413—Principles of Delivering Public Health Nutrition Services	3

HN 420—Clinical Nutrition II	2
BCMG 307—Fundamentals of Biochemistry	3
MVSC 251—Human Physiological Anatomy I	5
MVSC 252—Human Physiological Anatomy II	5
Electives ^b	16
Total Hours—Nutrition Science Required Courses	60

^a This course is approved for the Exploring World Cultures General Education category

^b Elective courses will depend upon students' post-graduation goals.

Sample Course Schedule—Nutrition Science

Junior Year

Fall Semester	Hours
BCMG 307—Biochemistry	3
MVSC 251—Human Physiological Anatomy I	5
HN 200—Nutritional Assessment	3
HN 308—Nutrition Science I	3
Total Hours	14

Spring Semester	Hours
MVSC 252—Human Physiological Anatomy II	5
HN 309—Nutrition Science II	3
HN 413—Principles of Delivery of Public Health Nutrition Services	3
Elective(s)	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
HN 366—Genetics, Nutrition, and Health	2
Elective(s)	3
Total Hours	17

Spring Semester	Hours
HN 340—Seminar	1
HN 341—The Research Process	2
HN 420—Clinical Nutrition II	2
Elective(s)	10
Total Hours	15

DEPARTMENT OF MOVEMENT SCIENCES

337 Physical Education Building (PEB)
(312) 996-4600
mvsc@uic.edu
<http://www.ahs.uic.edu/mvsc>

Administration: Head, Dr. Mark Grabiner
Director of Undergraduate Studies,
Dr. Mary Lou Bareither
Academic Adviser: Ms. Emily Walker

The Department of Movement Sciences of the College of Applied Health Sciences offers diverse programs and courses in the area of human movement studies leading to the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees. Students of widely varying interests and backgrounds choose Movement Sciences for their professional preparation. The Department of Movement Sciences is firmly committed to the University of Illinois at

Chicago's three-fold mission of education, research, and service. Students in the department will find many opportunities to engage in all three endeavors.

BS in Movement Sciences

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 who have earned 36 semester hours (54 quarter hours) or more at another college or university are classified as transfer students 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. International students must have a Test of English as a Foreign Language (TOEFL) score of 550 (paper-based); 213 (computer-based); or 80, with sub-scores of Reading 19, Listening 17, Speaking 20, and Writing 21 (new Internet-based TOEFL).

Degree Requirements—Both Concentrations

To earn a Bachelor of Science in Movement Sciences degree from UIC, students need to complete University, college, and department degree requirements. The Department of Movement Sciences degree requirements are outlined below. Students should consult the *College of Applied Health Sciences* section for additional degree requirements and college academic policies.

Movement Sciences Common Core

Courses	Hours
MVSC 100—Introduction to the Study of Movement Sciences	2
MVSC 260—Biomechanics: Introduction to the Human Machine	3
HN 196—Nutrition	2
MVSC 251—Human Physiological Anatomy I	5
MVSC 252—Human Physiological Anatomy II	5
MVSC 335—Exercise Psychology	3
MVSC 352—Physiology of Exercise	4
MVSC 372—Motor Control and Learning	3
Total Hours—Movement Sciences Common Core	27

Degree Requirements—Concentration in Movement Science

BS in Movement Sciences, Concentration in Movement Science Degree Requirements

	Hours
University Writing Requirement	6
General Education Core Requirements	21
Movement Sciences Common Core	27
Concentration Required Courses	44
Electives	22
Total Hours—BS in Movement Sciences, Concentration in Movement Science	120

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

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.

Movement Sciences Common Core

See previous section *Degree Requirements—Both Concentrations*.

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)

MVSC 365—Biomechanics of Musculoskeletal Tissues	3
MVSC 452—Advanced Exercise Physiology	3
MVSC 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 —Nine hours of which must be upper-level movement sciences courses (300- or 400-level courses).	22
Total Hours—Concentration in Movement Science—Electives	22

^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:

- MVSC 398—Senior Research Seminar (3 hours)
- MVSC 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
MVSC 100—Introduction to the Study of Movement Sciences	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 II: Writing for Inquiry and Research	3
MATH 121 (Prerequisite for MATH 180, if necessary)	3
MVSC 260—Biomechanics: Introduction to the Human Machine	3
HN 196—Nutrition	2
Total Hours	16

Sophomore Year

Fall Semester	Hours
CHEM 112—General College Chemistry I	5
MVSC 251—Human Physiological Anatomy I	5
MATH 180—Calculus I	5
Total Hours	15

Spring Semester	Hours
CHEM 114—General College Chemistry II	5
MVSC 252—Human Physiological Anatomy II	5
PSCH 242—Introduction to Research in Psychology	3
General Education Core course	3
Total Hours	16

Junior Year

Fall Semester	Hours
MVSC 335—Exercise Psychology	3
MVSC 352—Physiology of Exercise	4
PHYS 105—Introductory Physics I	
OR	
PHYS 141—General Physics I	5
PHYS 106—Intro Physics Lab I	
OR	
PHYS 144—General Physics Lab I	1
General Education Core course	3
Total Hours	16

Spring Semester	Hours
CHEM 232—Organic Chemistry I	4
MVSC 372—Motor Control and Learning	3
General elective	3
General Education Core course	3
Total Hours	13

Senior Year

Fall Semester	Hours
BIOS 220—Mendelian Genetics	3
MVSC 365—Biomechanics of Musculoskeletal Tissues	3
MVSC elective 300- or 400-level course	3

MVSC elective 300- or 400-level course	3
General elective	3
Total Hours	15

Spring Semester	Hours
MVSC 452—Advanced Exercise Physiology	3
MVSC 472—Movement Neuroscience	3
MVSC 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 Movement Sciences, Concentration in Exercise and Fitness Degree Requirements	Hours
University Writing Requirement	6
General Education Core Requirements	24–26
Movement Sciences Common Core	27
Concentration Required Courses	50
Electives	11–13
Total Hours—BS in Movement Sciences, Concentration in Exercise and Fitness	120

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

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.

Movement Sciences Common Core

See previous section *Degree Requirements—Both Concentrations*.

Concentration in Exercise and Fitness—Required Courses

Courses	Hours
MATH 121—Precalculus Mathematics	5
MVSC 130—Stress Management	3
MVSC 200—Research Literacy in Movement Sciences	3
MVSC 240—Instructional Techniques in Fitness	3
MVSC 243—Basic Fitness Assessment	3
MVSC 331—Sport and Exercise Injury Management	3

MVSC 343—Advanced Fitness Assessment	3
MVSC 345—Exercise Programming	3
MVSC 348—Modifications in Exercise Programming	3
MVSC 400—Business Principles for the Fitness Professional	3
MVSC 410—Human Aging and Physical Performance	3
MVSC 441—Principles of Resistance Training	3
MVSC 442—Principles of ECG Interpretation	3
MVSC 460—Neuromechanical Basis of Human Movement	3

Choose one of the following:

MVSC 393—Undergraduate Internship in Movement Sciences

OR

Upper-level movement sciences electives 6

Total Hours—Concentration in Exercise and Fitness Required Courses 50

Concentration in Exercise and Fitness—Electives

Courses	Hours
Electives ^a	11–13
Total Hours—Concentration in Exercise and Fitness Electives	11–13

^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:

- MVSC 398—Senior Research Seminar (3 hours)
- MVSC 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
MVSC 100—Introduction to the Study of Movement Sciences	2
MVSC 130—Stress Management	3
General Education Core course	3
Total Hours	16

Spring Semester

ENGL 161—Academic Writing II: Writing for Inquiry and Research	3
HN 196—Nutrition	2
MVSC 260—Biomechanics: Introduction to the Human Machine	3
MATH 121—Precalculus Mathematics	5
General Education Core course	3
Total Hours	16

Sophomore Year

Fall Semester	Hours
PSCH 100—Introduction to Psychology	4
MVSC 200—Research Literacy in Movement Sciences	3
MVSC 243—Basic Fitness Assessment	3
MVSC 251—Human Physiological Anatomy I	5
Total Hours	15

Spring Semester

MVSC 240—Instructional Techniques in Fitness	3
MVSC 252—Human Physiological Anatomy II	5
MVSC 335—Exercise Psychology	3
Analyzing the Natural World elective	5
Total Hours	16

Junior Year

Fall Semester	Hours
MVSC 331—Sport and Exercise Injury Management	3
MVSC 352—Physiology of Exercise	4
MVSC 372—Motor Control and Learning	3
MVSC 460—Neuromechanical Basis of Human Movement	3
General elective	3
Total Hours	16

Spring Semester	Hours
MVSC 345—Exercise Programming	3
MVSC 441—Principles of Resistance Training	3
General electives	5
General Education Core course	3
Total Hours	14

Senior Year

Fall Semester	Hours
MVSC 343—Advanced Fitness Assessment	3
MVSC 348—Modifications in Exercise Programming	3
MVSC 400—Business Principles for the Fitness Professional	3
MVSC 442—Principles of ECG Interpretation	3
General Education Core course	3
Total Hours	15

Spring Semester	Hours
MVSC 410—Human Aging and Physical Performance	3
MVSC 393—Undergraduate Internship in Movement Sciences OR	
MVSC electives 300- or 400-level courses	6
General elective	3
Total Hours	12

Minor in Movement Sciences

The Minor in Movement Sciences is open to majors from other units and colleges. Students will be allowed to complete the minor area of study within Movement Sciences 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 in room 337 PEB and obtain approval. Students must also consult their home colleges about the acceptability and applicability of Movement Sciences course credit toward their degree. Registration for all MVSC courses is restricted to students in the College of Applied Health Sciences; therefore, students outside the college seeking a minor will need to register for the necessary courses through the academic adviser in the Department of Movement Sciences. A minimum GPA of 2.00/4.00 is required for the minor field. Students must take the following courses to complete the minor.

Prerequisites for the Minor	Hours
BIOS 100—Biology of Cells and Organisms	5
MATH 121—Precalculus Mathematics	5
Total Hours—Prerequisites for the Minor	10

Required Courses for Minor in Movement Sciences	Hours
MVSC 260—Biomechanics: Introduction to the Human Machine	3
MVSC 251—Human Physiological Anatomy I	5
MVSC 252—Human Physiological Anatomy II	5

Choose from courses in List A or List B.

6–10

List A: Choose two of the following courses with departmental advising:

MVSC 335—Exercise Psychology (3)
 MVSC 352—Physiology of Exercise (4)
 MVSC 365—Biomechanics of Musculoskeletal Tissue (3)
 MVSC 372—Motor Control and Learning (3)
 MVSC 410—Human Aging and Physical Performance (3)
 MVSC 452—Advanced Exercise Physiology (3)
 MVSC 472—Movement Neuroscience (3)

List B: Choose two or three of the following courses with departmental advising:

MVSC 243—Basic Fitness Assessment (3)
 MVSC 345—Exercise Programming (3)
 MVSC 352—Physiology of Exercise (4)
 MVSC 441—Principles of Resistance Training (3)
 MVSC 442—Principles of ECG Interpretation (3)
 MVSC 460—Neuromechanical Basis of Human Movement

Total Hours—Minor in Movement Sciences 19–23

^a Students who have taken the first-semester course in college physics may substitute it for MVSC 260.

Enrollment Residence Requirement for the Minor

Students must complete at least one-half of the course work required for the minor in enrollment residence at UIC.

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 Movement Sciences offers the following opportunities:

Independent Study

MVSC 396—Independent Study in Movement Sciences is designed to be a flexible course allowing juniors and seniors to gain experience in Movement Sciences-related research. Taken for 1–3 hours, MVSC 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 MVSC 398—Senior Research Seminar and MVSC 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 presentation 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 Movement Sciences 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 Movement Sciences 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
303 Jefferson Hall (JH)
(312) 996-3351
aa@uic.edu
<http://www.aa.uic.edu>

Administration: 303 JH
Student Services and Academic Advising: 306 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 Arts in Architectural Studies 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
Architectural Studies	Architecture	BA in Architectural Studies	130
Art Education	Art and Design	BFA in Art Education	130
Art History	Art History	BA in Art History	120
Electronic Visualization	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 and Performance 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

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 150 and 152 will not fulfill college degree requirements. (By exception, students may earn 3 semester hours of credit in English 150 or 152 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 adviser 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 *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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 adviser and approved in the college office. During the eight-week summer session a full-time program is 6 semester hours, 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 adviser for counseling. Counseling is viewed by the college as an important determinant in the retention of students. Students may be referred to the Office of Student Counseling 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 adviser 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 adviser 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 pro-

grams, 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 550 (paper-based); 213 (computer-based); 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 (International).

Change of Course Schedule

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of week 1 for summer semester. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer semester) students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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 306 JH.

Change of Major

Students wishing to change majors within the college should consult the individual school or department adviser(s) and complete an application in the college student affairs office, 306 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 Arts in Architectural Studies 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. The credit/no credit option in a course must be elected by the end of the tenth day of instruction of the term. Students must report to 306 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

A student may earn a double major by fulfilling the degree requirements in two areas, as well as those for the University and the college. The designation of the double major is noted on the student's official record. Students seeking a double major should contact the appropriate school or department for a curriculum evaluation and then make a declaration for a double major in the college office.

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 adviser 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 adviser for registration. An advising hold will be placed on each registration and will only be released upon verification of department advising.

Repeating a Course

Each required course failed must be repeated until a passing grade has been earned. Failing grades are included in the cumulative grade point average. If a student repeats a course for which the student has already received credit, either through course work at UIC or by advanced standing previously allowed for work done elsewhere, the student forfeits the original credit. However, both grades are recorded on the student's academic record and counted in the student's cumulative grade point average.

Second Bachelor's Degree

A student may receive a second bachelor's degree from the College of Architecture and the Arts either concurrent with or subsequent to the first bachelor's degree. 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.

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, 306 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 550 (paper-based); 213 (computer-based); or 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 adviser in the school. For more information on the portfolio requirement, please visit <http://www.uic.edu/depts/arch/up/ugp.html>.

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://www.uic.edu/aa/artd/> 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 adviser for registration and enrollment. Advisers are generally assigned to students during the academic year.

Contact Information

Both the School of Architecture and the School of Art and Design post adviser assignments. Students in Art History should check with the departmental office for assignment of advisers. Students in the Department of Performing Arts should consult the department for specific instructions concerning the assignment of faculty advisers.

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, Daniel Wheeler, FAIA (Interim)
 Academic Adviser: Maria Tolbert

BA in Architectural Studies

The four-year Bachelor of Arts in Architectural Studies 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 Bachelor of Arts in Architectural Studies 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 College 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 Arts in Architectural Studies 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.

BA in Architectural Studies Degree Requirements	
	Hours
Core Courses	94
Distribution Requirements	30
Additional Electives	6
Total Hours—BA in Architectural Studies	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—Capstone 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	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—Capstone 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, Peggy Burns
Academic Advisers: Erin Brady, Mara Krueger

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 application. 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 dis-

ciplines. 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.

Students majoring in Art Education, Electronic Visualization, Moving Image, Photography, Graphic Design, and Industrial Design are required to buy a laptop computer through our Laptop Purchase Program (upon successful portfolio review), which provides hardware and software required for each major at a discounted rate. Students in all majors are eligible to participate in the School of Art and Design Laptop Purchase Program.

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 CIE 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 adviser.

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—Fundamentals of Acting	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:	3
AH 264—African American Art History (3) ^c	
AH 270—African Art (3) ^c	
AH 275—South Asian Visual Cultures (3) ^c	
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. GPA for Art Education and for Education is 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 AD 120—Industrial Design I OR AD 140—Sculpture I 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—Fundamentals of Acting	3
Total Hours	18

Spring Semester	Hours
AD 102—Drawing I OR AD 110—Graphic Design I AD 120—Industrial Design I OR AD 140—Sculpture I AD 160—Photography I 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
Total Hours	12

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	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

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 adviser ^a	16
AH electives chosen with adviser's approval from the following:	6
AH 204—Greek Art and Archaeology (3)	
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
Physical/natural science course	
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	4
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 and Foundation Courses	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 <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
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	4
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 <i>OR</i>	
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 adviser 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 chose in consultation with the student's adviser	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 adviser'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	
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
General Education Core course	3
Elective	3
AD 290—Interdisciplinary Seminar I	4
AD 267—Methods and Techniques of Digital Photography	
OR	
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	
OR	
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 adviser	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	4
General Education Core course	3
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:

AD 203—Drawing II: Intermediate (4)	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 adviser	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 Requirements	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 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	5
Elective	2
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 that 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

L042 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 either the Basic Concentration or the Performance Concentration.

General Education Requirements for Basic and Performance 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
Exploring World Cultures course ^a	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 course(s) from any category ^{a,b}	1–6 ^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 Concentration take one additional course from any General Education category for 1–3 hours to reach a total of 24 hours in General Education Core. Students in the Performance Concentration take two additional courses from any General Education categories for a total of 4–6 hours to reach a total of 24 hours in General Education Core.

^c The Understanding the Creative Arts General Education requirement is met by a course 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	55–63
Electives	33–41
Total Hours—BA in Music—Basic Concentration	120

General Education Requirements

See previous section *General Education Requirements for Basic and Performance Concentrations* for a list of courses to meet this requirement.

Basic Concentration Major Course Requirements

For the Basic Concentration, 55–63 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
Six hours of music electives chosen from the following:	6
MUS 113—Music Literature: Secular Art Song (3) ^b	
MUS 114—Jazz (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^c 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 159—Jazz Ensemble (1)	
Foreign language ^d	0–8
Total Hours—Basic Concentration Major Course Requirements	55–63

^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 No more than one hour of credit earned in any term may apply towards this four-hour requirement.

^d 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	33–41

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
Elective	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
Elective	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, 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
Electives	5
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	65–68
Electives	28–31
Total Hours—BA in Music—Performance Concentration	120

General Education Requirements

See previous section *General Education Requirements for Basic and Performance Concentrations* for a list of courses to meet this requirement.

Performance Concentration Major Course Requirements

For the Performance Concentration, 65–68 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

Three hours of music electives chosen from the following:

MUS 113—Music Literature: Secular Art Song (3) ^b	3
MUS 114—Jazz (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:

MUS 302—Composition I (3)	6
MUS 303—Composition II (3)	
MUS 304—Conducting (3)	
MUS 306—Orchestration and Arranging I (3)	
MUS 307—Orchestration and Arranging II (3)	

One to four hours of music^c chosen from the following:

MUS 151—Concert Band (1)	1-4
MUS 153—University Choir (1)	
MUS 159—Jazz Ensemble (1)	

One or two hours of music^c chosen from the following:

MUS 152—Instrumental Ensembles (1)	1-2
MUS 154—Chamber Choir (1)	
MUS 155—Women's Choral Ensemble (1)	

Eight hours chosen from the following:

MUS 180—Private Instrumental Lessons (2) ^d	8
MUS 182—Private Voice Lessons (2) ^d	

Six hours chosen from the following:

MUS 280—Advanced Private Instrumental Lessons (3) ^e	6
MUS 282—Advanced Private Voice Lessons (3) ^e	

Total Hours—Performance Concentration Major Course Requirements	65–68
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^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 Vocalists must choose four hours of 153 and one hour of 154 or 155; wind and percussion students must choose four hours between 151 and 159, and one hour of 152; pianists, organists, and string students must complete two hours from 152, and one hour of a large ensemble.

^d 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.

^e 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.

Electives

Courses	Hours
Total Hours—Electives	28–31

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, 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 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 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 280—Advanced Private Instrumental Lessons	3
General Education Core course	3
General Education Core course	4
Electives	5
Total Hours	15

Spring Semester	Hours
MUS 280—Advanced Private Instrumental Lessons	3
General Education Core course	3
General Education Core course	3
Electives	6
Total Hours	15

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

BFA in Performance and BA in Theatre

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 U.S. Society course ^a	3
Additional General Education Core courses from any category ^a	4–6
Total Hours—General Education Requirements^b	24

^a Students should consult the General Education section of the catalog for a list of approved courses in this category.

^b The Understanding the Past and Understanding the Creative Arts General Education requirements are met by courses 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	24
Major Course Requirements	45
Electives	51
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—Fundamentals of Acting	3
THTR 210—Movement for Stage I	3
THTR 260—The Actor's Voice	3
THTR 261—Advanced Voice for the Actor	3
THTR 262—Acting II: Contemporary	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—Acting: Greeks and Shakespeare	3
THTR 470—Contemporary Performance Techniques	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—Principles of Design (3)

OR

THTR 151—Fundamentals of Costume Construction (3)
THTR 257—Costume Design I (3)

One of the following courses: 3

MUS 100—Introduction to Music I (3)^b
MUS 107—Fundamentals of Music Theory (3)^b

**Total Hours—Performance Concentration
Major Course Requirements** 45

^a This course is approved for the Understanding the Past General Education category.

^b This course is approved for 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—Fundamentals of Acting	3
THTR 210—Movement for Stage I	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
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—Principles of Design (3)

OR

THTR 151—Fundamentals of Costume Construction (3)
THTR 257—Costume Design (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—Scene Design (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)

One course from the following: 3

MUS 100—Introduction to Music I (3)^b
MUS 107—Fundamentals of Music Theory (3)^b

**Total Hours—Directing/Design Concentration
Major Course Requirements** 45

^a This course is approved for the Understanding the Past General Education category.

^b This course is approved for the Understanding the Creative Arts General Education category.

Electives

Courses	Hours
Total Hours—Electives	51

**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 150—Technical Theatre (or 151, spring)	3
THTR 161—Fundamentals of Acting	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 151—Costume Construction (or 150, fall)	3
THTR 260—The Actor's Voice	3
THTR 262—Acting II: Contemporary	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 210—Movement for Stage I	3
THTR 261—Advanced Voice for the Actor	3
THTR 280—Practicum in Performance*	3
THTR 444—Drama in Its Cultural Context I	3
General Education Core course	3
Total Hours	15

Spring Semester	Hours
THTR 250—Principles of Design	3
THTR 452—Acting: Greeks and Shakespeare	3
General Education Core course	3
Elective	3
Elective	3
Total Hours	15

Junior Year

Fall Semester	Hours
THTR 257—Costume Design	3
THTR 445—Drama in Its Cultural Context II	3
THTR 465—Stage Direction	3
MUS 100—Introduction to Music	
OR	
MUS 107—Fundamentals of Music Theory	3
General Education Core course	3
Total Hours	15

Spring Semester	Hours
THTR 470—Contemporary Performance Techniques	
OR	
THTR 472—Investigative Collaboration	3
General Education Core course	3
Elective	3
Elective	3
Elective	3
Total Hours	15

Senior Year

Fall Semester	Hours
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Total Hours	15

Spring Semester	Hours
Elective	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. 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 150—Technical Theatre (or 151, spring)	3
THTR 161—Fundamentals of Acting	3
ENGL 160—Academic Writing I: Writing for Academic and Public Contexts	3
General Education Core courses*	3–5
Total Hours	15–17

Spring Semester	Hours
THTR 151—Costume Construction (or 150, fall)	3
THTR 250—Principles of Design (or 257, sophomore fall)	3
THTR 282—Practicum in Costuming	
OR	
THTR 283—Practicum in Technical Theatre	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 257—Costume Design I (or 255, spring)	3
THTR 444—Drama in Its Cultural Context I	3
MUS 100—Introduction to Music	
OR	
MUS 107—Fundamentals of Music Theory	3
General Education Core course	3
Elective	3
Total Hours	15

Spring Semester	Hours
THTR 255—Scene Design	
OR	
THTR 258—Costume Design II	3
THTR 256—Lighting Design (or 259, junior spring)	3
General Education Core course	3
Elective	3
Elective	3
Total Hours	15

Junior Year

Fall Semester	Hours
THTR 445—Drama in Its Cultural Context II	3
THTR 465—Stage Direction	3
General Education Core course	3
Elective	3
Elective	3
Total Hours	15

Spring Semester	Hours
THTR 259—Makeup Design (or 256, sophomore spring)	3
THTR 423—Playwriting	3
THTR 470—Contemporary Performance Techniques	3
THTR 472—Investigative Collaboration	3
General Education Core course	3
Total Hours	15

Senior Year

Fall Semester	Hours
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Total Hours	15

Spring Semester	Hours
Elective	3
Elective	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	24
Major Course Requirements	66
Electives	30
Total Hours—BFA in Performance	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—Fundamentals of Acting	3
THTR 210—Movement for Stage I	3
THTR 250—Principles of Design	3
THTR 260—The Actor's Voice	3
THTR 261—Advanced Voice for the Actor	3
THTR 262—Acting II: Contemporary	3
THTR 280—Practicum in Performance	3
THTR 310—Movement for Stage II	3
THTR 362—Acting: Ensemble Project	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 452—Acting: Greeks and Shakespeare	3
THTR 455—Acting: Comedy	3
THTR 458—Acting: Ibsen and Chekhov	3
THTR 462—Voice for Stage	3
THTR 465—Stage Direction	3

One of the following courses:

THTR 150—Technical Theatre (3)	
THTR 151—Fundamentals in Costume Construction (3)	
One of the following courses:	3
THTR 255—Scene Design (3)	
THTR 256—Lighting Design (3)	
THTR 257—Costume Design I (3)	

One of the following courses:

THTR 470—Contemporary Performance Techniques (3)	
THTR 472—Investigative Collaboration (3)	

One of the following courses:

MUS 100—Introduction to Music I (3) ^b	
MUS 107—Fundamentals of Music Theory (3) ^b	

Total Hours—BFA Major Course Requirements **66**

^a This course is approved for the Understanding the Past General Education category.

^b This course is approved for the Understanding the Creative Arts General Education category.

Electives

Courses	Hours
Total Hours—Electives	30

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—Fundamentals of Acting	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 260—The Actor's Voice	3
THTR 262—Acting II: Contemporary	3
THTR 280—Practicum in Performance*	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 151, spring)	3
THTR 261—Advanced Voice	3
THTR 310—Movement for the Stage II	3
THTR 362—Acting: Ensemble Project	3
Elective	3
Total Hours	15

Spring Semester	Hours
THTR 151—Costume Construction (or 150, fall)	3
THTR 250—Principles of Design	3
THTR 452—Acting: Greeks and Shakespeare	3
General Education Core course	3
General Education Core course	3
Total Hours	15

Junior Year

Fall Semester	Hours
THTR 257—Costume Design (or 255 or 256, spring)	3
THTR 444—Drama in Its Cultural Context I	3
THTR 455—Acting: Comedy	3
THTR 462—Voice for Stage	3
General Education Core course	3
Total Hours	15

Spring Semester	Hours
THTR 255—Scene Design	
OR	
THTR 256—Lighting Design (or 257, Fall)	3
THTR 410—Movement for Stage III	3
THTR 458—Acting: Ibsen and Chekhov	3
General Education Core course	3
Elective	3
Total Hours	15

Senior Year

Fall Semester	Hours
THTR 445—Drama in Its Cultural Context II	3
THTR 465—Stage Direction	3
MUS 100—Introduction to Music	
OR	
MUS 107—Fundamentals of Music Theory	3
Elective	3
Elective	3
Total Hours	15

Spring Semester	Hours
THTR 470—Contemporary Performance Techniques	
OR	
THTR 472—Investigative Collaboration	3
THTR 475—Audition Technique (suggested)	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

Dean, Stefanie Lenway

Undergraduate Programs: Assistant Dean, Robin Brierton

1118 University Hall (UH)

(312) 996-2700

Fax: (312) 413-4201

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

Undergraduate Programs Web site:

<http://www.uic.edu/cba/ugrad>

Academic Services: 1118 UH

Undergraduate Business Career Center: 1118 UH

Departments: Accounting, Economics, 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, economics, 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.

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
Economics	Economics	BS in Economics	120
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

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.

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.

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

Health, movement sciences, 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 110—Introduction to Financial Accounting	3
ACTG 111—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
The Major and Business Electives	
Choose a major from the following areas:	
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.	27–28
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; IDS majors must take MATH 205; and Economics majors must take ECON 346.

Approved Courses	Hours
Economics (ECON)	
346—Econometrics	3
Information and Decision Sciences (IDS)	
371—Business Statistics II	3
Mathematics (MATH)	
205—Advanced Mathematics for Business	5
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. Grades of C or better are required to progress to the next math course. Please note that MATH 160 is not a prerequisite for MATH 165.

Students who plan to go on to graduate school in a program that emphasizes quantitative skills are encouraged to take MATH 180 and MATH 181. MATH 180 will count in place of the required MATH 165 course and

MATH 181 can be used as an Analyzing the Natural World or Elective course. Students planning to take MATH 180 may be required to take a trigonometry course as a prerequisite, depending on their performance on the placement exam.

Other useful courses are MATH 205, MATH 210, and MATH 310. MATH 205 is required for all students majoring in Information and Decision Sciences.

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; English as a Second Language courses; English 150 and 152; Mathematics 075, 090, 118, 121, 140, and 141; movement sciences, health 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 150 or 152 and a waiver of English 160 if written authorization is received from the Department of English. BA 100, 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 adviser to complete a graduation check. When students register for their final semester of courses, they will also declare their intent to graduate online using the *UIC Web for Student* system. The deadline to declare graduation in the *UIC Web for Student* system is the end of the third week (fall and spring) or second week (summer) 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.

One semester before graduation, CBA students must meet with their academic adviser to complete a graduation check. Additionally, students declare their intent to graduate online using *UIC Web for Student*. The deadline to declare graduation in *UIC Web for Student* is the end of the third week (fall and spring) or second week (summer) 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.

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/ucatalog/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. During the summer term, full-time status is defined as registration in 6 or more semester hours. A maximum of 18 semester hours may be taken in a semester (9 hours during the summer session). 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 cannot register for more than 12 hours of course work for the semester (6 hours during the summer term).
2. Students must complete the ACE Academic Achievement Program during the next term.
3. Students must schedule an appointment with a CBA academic adviser three times during the semester to discuss their academic progress for the 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

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 adviser 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 adviser to discuss their academic progress, sign an academic contract, and seek tutoring in difficult subjects. Students are required to meet with an academic adviser three times each semester until they are no longer on probation. Additionally, students will be required to complete the ACE Academic Achievement Program.
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.

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 above.

Change of Course Schedule

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of the first week of the summer term. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer semester) students with extenuating circumstances may drop courses with the permission of a CBA adviser. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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 Business Administration students must complete a Late Drop Petition form in the CBA Undergraduate Programs Office, 1118 UH.

To avoid difficulty, CBA suggests that students do the following:

- Meet with a CBA academic adviser 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 advisers, and academic advisers. Changing a major is done by making an appointment with an academic adviser.

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 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 six semester hours of CLEP (College Level Examination Program) credit in general examinations, provided it does not duplicate credit previously earned. CLEP credit will be awarded toward the CBA degree require-

ments based on the description and content of the exam, and permission from the college.

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 your 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 Economics, Finance, and Information and Decision Sciences majors;
 - Major business courses;
 - Business elective courses;
 - Any accounting course if the student is majoring in Accounting.

The credit/no credit option for a course must be elected by the tenth day of instruction and cannot be revoked after that date. To elect this option, students must complete a credit/no credit form in the CBA Undergraduate Programs Office during the first two weeks of each semester. They must be submitted to 1118 UH by 4:30 p.m. (the close of business) on the tenth day of instruction.

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 Information and Decision Sciences majors and Accounting majors who have started taking major-level accounting courses are required to meet with an academic adviser and an assigned faculty adviser in their major department prior to receiving approval to register. Students on academic probation must also meet with a college adviser prior to registering for the next semester. Registration holds will not be removed from the student's account until these conditions have been met.

Repeating a Course

Any required course that is failed (grade of F) must be repeated until a passing grade is earned. All failing grades will be included in the cumulative grade point average, even though the course was retaken and passed. Repeating a course in which credit was earned requires approval by petition, unless a higher grade is necessary to continue in the sequence. Graduation credit will not be awarded for courses in which a passing grade was earned and repeated to earn a higher grade.

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 monthly 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
International Business	Interdepartmental	15
Labor Markets and Workforce Development	Interdepartmental	18
Real Estate	Interdepartmental	15

Academic Advising

Academic advisers 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 adviser each semester to plan a manageable course schedule to stay on track for graduation.

Required Advising

Students must see an adviser for any of the situations listed below:

- All new students must attend an Orientation session to meet with an adviser and register for classes.
- All beginning freshmen must meet with their academic adviser each semester during their first year.
- Juniors and seniors majoring in Accounting are required to meet with a college adviser prior to meeting with an assigned faculty adviser in the Accounting Department each semester.
- All IDS majors are required to meet with an IDS faculty adviser each semester prior to registration for the next term.
- Students on academic probation and whose UIC GPA is below 2.00 must meet with an adviser three

times each semester until the probationary status has been cleared.

- All graduating seniors are required to meet with an adviser 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 situations should contact the director of academic services.

Policies to Ensure Academic Progress

- Meet with an academic adviser 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. To complete the degree within four years, a student must enroll in an average course load of 15–16 hours per semester. The maximum course load is 18 hours per semester (9 hours in the summer session).
- 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, in order to be eligible to enroll in business core courses.
- English 160 and 161 should be completed by the end of the freshman year.
- Economics 130 should be completed during the 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.
- Economics, 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 email account daily for updates.
- The CBA awards approximately \$225,000.00 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 application 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, 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/>.
- *ONLINE*, the CBA newsletter, is published each semester to inform students about policies, events, scholarships, and Dean's List recipients and other CBA-related news.
- The college offers Honors business courses to students who are members of the Honors College or have a 3.40 GPA. The Honors courses provide an enhanced classroom experience, more contact and interaction with the professor and smaller classes sections in most cases. The Honors Course Designation will be noted on the official UIC transcript.
- Business students may opt to live on the business floor of the residence halls which provides 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, economics, 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 advisers 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, more contact and interaction with the professor, and smaller classes sections in most cases. 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, Labor Markets and Workforce Development or Real Estate.

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; 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 165—Calculus for Business	5
ECON 130—Principles of Economics for Business	5
Total Hours	13

^aBA 100 is a one-semester-hour course and required of incoming freshmen for graduation, but the hour does not count toward the total hours required to graduate.

Second Semester	Hours
ENGL 161—Academic Writing II: Writing for Inquiry and Research	3
MATH 160—Finite Mathematics for Business	5
ECON 218—Microeconomics: Theory and Business Applications	4
General Education Core course*	3
Total Hours	15

Sophomore Year

First Semester	Hours
IDS 200—Introduction to Management Information Systems	4
ACTG 110—Introduction to Financial Accounting	3
BA 200—Managerial Communication	3
General Education Core course*	5
Total Hours	15

Second Semester	Hours
ACTG 111—Introduction to Managerial Accounting	3
IDS 270—Business Statistics I	4
General Education Core course*	3
General Education Core course*	3
Elective*	3
Total Hours	16

Junior Year

First Semester	Hours
MGMT 340—Introduction to Organizations	3
MKTG 360—Introduction to Marketing	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
MGMT 350—Business and Its External Environment	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
Elective*	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, Ram Ramakrishnan
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 the *College of Business Administration* section.

DEPARTMENT OF ECONOMICS

2103 University Hall (UH)

(312) 996-2683

uicecon@web.econ.uic.edu

<http://www.uic.edu/cba/cba-depts/economics/>

Administration: Head of the Department, Barry R. Chiswick

Undergraduate Programs, 1118 UH

Director of Undergraduate Studies, Evelyn L. Lehrer

The Department of Economics offers a Bachelor of Science in Economics degree for students in the College of Business Administration. 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 introductory 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.

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.

BS in Economics

Degree Requirements

To earn a Bachelor of Science in Economics degree from UIC, students need to complete University, college, and department degree requirements. The Department of Economics degree requirements are outlined below. Students should consult the *College of Business Administration* section for additional degree requirements and college academic policies.

BS in Economics Degree Requirements	Hours
General Course Requirements	60
Business Core	33
Major Requirements	18
Business Electives	9
Total Hours—BS in Economics	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
ECON 221—Macroeconomics in the World Economy: Theory and Applications	3
Fifteen hours of 300- or 400-level economics courses	15
Total Hours—Major Requirements	18

Students may choose any 300- or 400-level courses (except ECON 441 and 442) for the 15 hours required above. The groups of courses at the end of this section are offered as guidance to students who may have an interest in one of the career/educational paths shown below.

Economics majors are required to take ECON 346—Econometrics to fulfill the Advanced Quantitative Skills requirement and this course does not count as one of the five elective 300- or 400-level courses. Economics majors may take ECON 495—Competitive Strategy to satisfy the integrative course requirement in the Business Core, but this course will not count as one of the five elective 300- or 400-level courses.

Business Electives

Courses	Hours
Nine hours at the 300- or 400-level chosen from courses in the College of Business Administration	9
Total Hours—Business Electives	9

Course Suggestions for Various Careers in Economics

Business/Financial Economics

Courses
ECON 322—Managerial Economics
ECON 323—Business Conditions Analysis
ECON 450—Business Forecasting Using Time-Series Methods
ECON 333—International Economics
ECON 329—Industrial Organization
ECON 339—Monetary Theory
ECON 365—Economics of Risk and Insurance

Human Resources

Courses
ECON 331—Labor Economics
ECON 334—Economic Development
ECON 353—Economic Demography
ECON 354—Health Economics
ECON 351—Economics of Education

Urban Economics/Real Estate

Courses
ECON 332—Urban Economics
ECON 342—Regional Economics
ECON 371—Introduction to Urban Real Estate
ECON 370—Environmental Economics
ECON 331—Labor Economics
ECON 472—Real Estate Finance
ECON 475—Real Estate Markets and Valuation

International Studies

Courses
ECON 333—International Economics
ECON 334—Economic Development
ECON 323—Business Conditions Analysis
ECON 339—Monetary Theory
ECON 353—Economic Demography

Pre-Graduate School in Economics/Business/Public Policy/Public Administration

Courses

ECON 436—Mathematical Economics
ECON 331—Labor Economics
ECON 329—Industrial Organization
ECON 333—International Economics
ECON 328—Public Finance
ECON 324—Economic History of the United States
ECON 334—Economic Development
ECON 332—Urban Economics
ECON 326—History of Economic Thought

Pre-Law

Courses

ECON 320—Law and Economics
ECON 330—Government and Business
ECON 328—Public Finance
ECON 329—Industrial Organization
ECON 324—Economic History of the United States
ECON 365—Economics of Risk and Insurance
ECON 331—Labor Economics
ECON 354—Health Economics

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 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)
(312) 996-2676

idsdept@uic.edu

<http://www.uic.edu/cba/cba-depts/ids/>

Administration: Richard Potter, rpotter@uic.edu;

Angela Prazza, prazza@uic.edu

Undergraduate Programs: 1118 UH

Faculty Adviser: Dr. Sid Bhattacharyya, sidb@uic.edu

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 inter-related 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	24
Business Electives	3
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) ^a	
IDS 371—Business Statistics II	3
IDS 410—Business Database Technology	3
IDS 450—Operations Management II	3
One of the following computing courses:	3
IDS 400—Advanced Business Programming Using Visual Tools (3) ^a	
IDS 401—Business Object Programming Using Java (3) ^a	
IDS 420—Business Systems Simulation (3) ^a	
CS 201—Data Structures and Discrete Mathematics I (4)	
Three of the following courses:	9
IDS 331—Business Analysis Using Spreadsheets (3) ^a	
IDS 400—Advanced Business Programming Using Visual Tools (3) ^a	
IDS 401—Business Object Programming Using Java (3) ^a	
IDS 405—Business Systems Analysis and Design (3)	
IDS 406—Business Systems Design Project (3)	
IDS 412—Distributed Business Systems (3)	
IDS 413—Internet Technology and Management (3)	
IDS 420—Business Systems Simulation (3) ^a	
IDS 422—Knowledge Management Systems (3)	
IDS 426—Computer Performance Evaluation and Modeling (3)	
IDS 435—Optimization Models and Methods (3)	
IDS 437—Stochastic Methods (3)	
IDS 446—Decision Analysis (3)	
IDS 460—Survey Sampling: Theories and Methods (3)	
IDS 470—Multivariate Analysis I (3)	
IDS 472—Business Data Mining (3)	
IDS 474—Quality and Productivity Improvement Using Statistical Methods (3)	
IDS 476—Business Forecasting Using Time Series Methods (3)	
IDS 478—Regression Analysis (3)	
Total Hours—Major Requirements	24

^a Course can be used to satisfy only one area of required or elective courses.

Business Electives

Courses	Hours
Any 400-level IDS course (except IDS 495) or any non-IDS 400-level course with departmental approval	3
Total Hours—Business Electives	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 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 CBA Student Services office.

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:	12

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
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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.

For students pursuing double majors within the Department of Managerial Studies, a minimum of four courses (12 semester hours) must be taken beyond the first major to earn the second major.

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.

For students pursuing double majors with the Department of Managerial Studies, a minimum of four courses (12 semester hours) must be taken beyond the first major to earn a second major.

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

For students pursuing double majors within the Department of Managerial Studies, a minimum of four courses (12 semester hours) must be taken beyond the first major to earn a second major.

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 the *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 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 in 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 Labor Markets and Workforce Development

The College of Business Administration offers a Minor in Labor Markets and Workforce Development. The minor is an option that undergraduate students in the College of Business Administration may choose if they wish to complement their major field of study with knowledge in how labor markets operate and how a firm can improve and develop its workforce. The minor requires 18 hours as distributed below:

Requirements for the Minor

Required Courses	Hours
ECON 331—Labor Economics	3
MGMT 453—Human Resource Management	3
Three courses selected from the following with at least one course from List A and at least one course from List B:	9

List A

MGMT 445—Organizational Analysis and Practice (3)
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)
MGMT 471—Management and Organizational Development (3)

List B

ECON 334—Economic Development (3)
ECON 351—Economics of Education (3)
ECON 353—Economic Demography (3)
ECON 354—Health Economics (3)

One of the following courses:

ANTH 214—Sex and Gender in World Cultures (3)*
MGMT/SOC 447—Organizations (3)
PSCH 210—Theories of Personality (3)*
SOC 224—Gender and Society (3)*
SOC 225—Racial and Ethnic Groups (3)*
SOC 244—Work in a Changing Society (3)*

Total Hours—Minor in Labor Markets and Workforce Development

3

18

Note: No more than six hours in business courses listed above may be counted toward the required major courses. The remaining business hours may be counted toward the business electives portion of the major. For example, a student majoring in Management may count MGMT 453 and MGMT 454 toward the required courses in management; other management courses may be counted as business electives. The courses with a star (*) are approved General Education Core courses. Students should consult the *General Education* section of the catalog to determine their categories. Please note that students choosing to take PSCH 210, SOC 224, SOC 225, or SOC 244 must take the corresponding prerequisite course.

Minor in Real Estate

The College of Business Administration offers a Minor in Real Estate. The minor is an option that undergraduate students in the College of Business Administration may choose if they wish to complement their major field of study with knowledge in the area of real estate. The minor requires 15 hours as distributed below.

Requirements for the Minor

Required Courses	Hours
ECON/FIN 371—Introduction to Urban Real Estate	3
ECON/FIN 472—Real Estate Finance	3
Three courses selected from the following:	9
ECON 332—Urban Economics (3)	
ECON 342—Regional Economics (3)	
ECON 475—Real Estate Markets and Valuation (3)	
FIN 310—Investments (3)	
SOC 276—Urban Sociology (3) ^a	
Total Hours—Minor in Real Estate	15

^a This course is an approved General Education course. Students should consult the General Education section of the catalog to determine the categories. Students choosing to take this course also need to take the prerequisite course SOC 100.

Note: No more than 6 hours in business courses listed above may be counted toward the required major courses. The remaining business hours may be counted toward the business electives portion of the major. For example, a student majoring in Economics may count ECON 332 and ECON 342 toward the required courses in economics; ECON 475 could be counted as a business elective.

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. Louanne Smolin

Student Services: 3145 EPASW, (312) 996-4532

Academic Advisers: Coordinator of Admissions and

Advising, Jennifer DeLago, (312) 996-0707

Academic Adviser, Ana P. Valenta, (312) 355-0575

Departments:

Curriculum and Instruction, Educational Psychology,
Policy Studies, Special Education

Council on Teacher Education: Executive Director, Dr.

Cynthia Shanahan, (312) 355-0714

Assistant to the Executive Director, Marietta Giovannelli,
(312) 996-9570

Certification Officer, Lisa Jones (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. 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 sites and communities for learning. Moreover, the program reflects UIC's conceptual framework: UIC educators are committed to the democratic ideal of developing the full potential of all students. They develop professional knowledge through study and critical analysis, and demonstrate effective practices consistent with their professional knowledge and ideals.

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 in CTE classroom visits and is available on the CTE Web site <http://www.uic.edu/educ/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 2003–2005. During the academic year 2003–2004, UIC program completers had a 100% pass rate on the Basic Skills Test and a 99% pass rate on the Content Area Tests. During 2004–2005, 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 98%.

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 adviser 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 advisers 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. 100 service learning hours completed by time of application. Acceptable service learning hours will include work with school-aged children (ages 5 to 14) in a group setting.
5. Submission of three letters of recommendation, one of which must be from the supervisor of the service learning hours and two 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 required 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 and verification of 100 service learning hours
- Three 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).

Phase IV—Recommendation to Entitlement to Certification**Completion of program**

Factors reviewed for entitlement to certification:

- Satisfactory completion of all course work and field-work
- 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)

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

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

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.	
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
PS 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 adviser.
4. Every student must seek approval of the chosen concentration and the intended course work from an academic adviser 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, ED 352, SPED 415, ED 351, ED 343, and ED 344. ED 353 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 *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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 adviser 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 adviser in the Office of Students 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

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of week 1 for summer semester. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer session) students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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 Education students contact the OSS, 3145 EPASW, (312) 996-4532.

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 adviser in OSS, 3145 EPASW, for further information.

Course Prerequisites

Course prerequisites will not be waived. Please consult the adviser 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

The College of Education does not permit double majors. Please consult the adviser in OSS, 3145 EPASW, for further information.

Graduate-Level Course for Undergraduate Credit

Please consult the adviser 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 adviser 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 advisers 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 adviser in OSS, 3145 EPASW, for further information.

Proficiency Examinations

Please consult the adviser 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 adviser in the Office of Student Services, 3145 EPASW.

Repeating a Course

Students may repeat a course in which a passing grade (and thus credit) has been assigned only with the permission of a dean. If approval is granted, the original credit is forfeited although both grades will be included in the cumulative grade point average and will remain on the student's permanent record. Please consult the adviser in OSS, 3145 EPASW, for further information.

Second Bachelor's Degree

Applicants who have already earned a bachelor's degree must apply to the graduate program.

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

Advisers 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 advisers in the College of Education. Students admitted to the College of Education are assigned an adviser, are required to meet with their adviser each semester, and must have approval of their adviser 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 adviser 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 adviser 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:	3
ENGL 101, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119.	
NATS 101—Physical World	4
ED 194—Special Topics in Education (UIC math placement test required)	4
General education concentration course	3
Total	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	18

Sophomore Year

First Semester	Hours
EPSY 255—Child Development and Elementary Education	3
One course 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.	
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	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	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	4
SPED 415—Characteristics of Exceptional Learners	3
Total	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
ED 352—Technology Integration in Elementary School I	2
Total	15

Senior Year

First Semester	Hours
ED 450—Composing a Teaching Life I— Student Teaching	15
ED 353—Technology Integration in Elementary School II	2
Total	17

Second Semester	Hours
ED 451—Composing a Teaching Life II— Elementary School II	5
EPSY 360—Learning, Cognition, and Student Assessment	2
PS 361—Social Foundations in Education	3
SPED 416—Methods of Instruction for Exceptional Learners	2
Total	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 adviser in their major department to fill out a Change of Major Form to declare their intention to major in teaching in their discipline.

1. 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.
2. Students must sign and submit a copy of The Safety and Technical Standards document to the CTE office when they request to register for ED 200 and ED 210.

Students must also pass the Illinois Basic Skills Test. Application forms and study guides may be obtained in the Council on Teacher Education in 3015 EPASW or online <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.
- 2 letters of recommendation.
- A written essay.
- An interview.
- A TaskStream account.
- Completion and submission of Technical Survey 1 to the TaskStream Certification Profile.
- Additional materials may be required by individual programs.

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 a minimum of 100 clock hours of field-work as part of the program and 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. Submitted other documentation required by Chicago Public Schools, found accompanying the student teaching application.
8. Met any additional requirements as specified within each program.

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 Technology I Survey to the TaskStream Certification Profile.
5. Completed and submitted a "Philosophy of Teaching and Learning" essay to the TaskStream Certification Profile.
6. Completed and submitted a Teaching and Assessment Event to the TaskStream Certification Profile.
7. Completed and submitted an Exit Survey to the TaskStream Certification Profile.
8. Completed and submitted Technology Survey II 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 advisers 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
CIE 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 adviser 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 above. 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 can be pursued while student teaching. All students should consult regularly with their advisers 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 Teaching 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 adviser in the major field of study or the Council on Teacher Education.

College of Engineering

Dean, Prith Banerjee, prith@uic.edu
 123 Science and Engineering Offices (SEO)
 (312) 996-3463
<http://www.engr.uic.edu> or
<http://www.uic.edu/depts/enga/>

Administration: Associate Dean—Undergraduate Affairs,
 Michael McNallan, mcnallan@uic.edu
 Assistant Dean—Undergraduate Recruitment and Minority
 Engineering Recruitment and Retention Program
 (MERRP), Denise Hayman, dhayman@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

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.

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.

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 150 and 152 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 150 or 152 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 movement sciences 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 *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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 credits 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. During the summer session, a full-time program is 6 semester hours because the summer session is 8 weeks long as compared to the 16-week long fall and spring semesters. 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, E= -2.

Change of Course Schedule

Undergraduate students may add or drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of week 1 for summer semester, except that the last course cannot be dropped via the Web system. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer semester) students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in

fall and spring (weeks 2 through 5 in summer), a W is noted on the transcript. Undergraduate students may drop a maximum of 4 individual courses that result in W notations on their transcript during their entire undergraduate work at UIC. 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 (by fifth week in summer).

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.

Declaring a Major

All students entering the College of Engineering must declare a major in order to be assigned a departmental faculty adviser 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 over-subscribed and thus closed.

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 adviser before registration for courses. Such approval is typically obtained during the orientation visit to the campus. All continuing students need approval from their faculty adviser before registering for courses.

Repeating a Course

A student must repeat any failed course if the course is part of the core curriculum or major. In addition, some courses require that a grade of C or better must be earned in the prerequisite course; a student earning a D grade in such a prerequisite course will be required to repeat the course. A student earning a D grade in a prerequisite course within the major is strongly advised (but not required) to repeat the course. If a student wishes to repeat a course in which a grade of C or higher was earned, approval must be obtained from the College Office, 123 SEO.

Second Bachelor's Degree

General university regulations apply. Students must complete all requirements for the second major and at least 30 semester hours must be beyond those required for the first major. 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 majors that have substantial overlap is not allowed. The college of record is the one that houses the first major. Prior approval by both colleges is required if two degrees are pursued concurrently in two different colleges.

Nonengineering students must meet the College of Engineering's transfer-eligibility criteria at the time of admittance into second (engineering) major, if open, although actual transfer into the college is optional. Furthermore, the College of Engineering's probation and dismissal rules will apply for the maintenance of second (engineering) major. Most engineering classes are closed to nonengineering students and students can register for classes needed for approved second (engineering) major by submitting petitions to the College of Engineering Office, 123 SEO, at the beginning of each term.

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 adviser 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	Interdepartmental Engineering	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 Nonengineering 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 advisers and departmental offices for faculty advisers.

Advising Policy

Faculty advisers 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 adviser 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

College Honors

At graduation, students are awarded College Honors for academic distinction. Such honors are designated on the diplomas as Honors, High Honors, or Highest Honors. The minimum cumulative grade point average needed to qualify for College Honors is 3.50/4.00 in all UIC course work and in all work offered for the degree.

Honors are awarded to a student who earns at least a 3.50 cumulative grade point average; High Honors are awarded to a student who earns at least a 3.75 cumulative grade point average; Highest Honors are 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 College Honors. Additionally, up to 2 semester hours of movement sciences courses are included in the grade point average.

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 818 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. Professional Engineering Societies Council (PESC) 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 Advisers: Professors Michael Cho, Yang Dai, David Eddington, John Hetling, Jie Liang, Andreas Linninger, Hui Lu, Ali Mansoori, William O'Neill, 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 program 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/bio/>.

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 Contexts	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)	
<i>Choose one from the following:</i>	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 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 adviser, must relate to each other in such a way as to define an area of concentration, and are subject to the following restrictions:	11
1. A minimum of 3 hours must be upper-division (300- or 400-level) bioengineering or other engineering courses.	
2. Nonengineering courses may be used only if they can be justified and prior approval is obtained from the adviser.	
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—Bioengineering Concentration Area Electives	11

Sample Course Schedule**Freshman Year**

First Semester	Hours
MATH 180—Calculus I	5
ENGL 160—Academic Writing I: Writing for Academic and Public Contexts	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/chem>

Administration: Head, Dr. Sohail Murad

Chair of the Undergraduate Committee,

Dr. Ludwig C. Nitsche

Student Services: Graduate/Undergraduate Program

Coordinator, Karen Milla, kmilla@uic.edu

Academic Advisers: Professors Linninger, Mansoori,

Murad, Nitsche, Regalbutto, Takoudis, 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
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)	
ECE 210—Electrical Circuit Analysis	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

UIC

**BIOENGINEERING —
CHEMICAL ENGINEERING**

College of Engineering

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^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 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
General Education Core course	3
Total Hours	15

Junior Year

First Semester	Hours
CHEM 342—Physical Chemistry I	3
ECE 210—Electrical Circuit Analysis	3
CHE 311—Transport Phenomena I	3
CME 260—Properties of Materials	3
General Education Core course	3
Total Hours	15

Second Semester	Hours
CHEM 222—Analytical Chemistry	4
CHEM 346—Physical Chemistry II	3
CHE 312—Transport Phenomena II	3

CHE 301—Chemical Engineering Thermodynamics	3
General Education Core course	3
Total Hours	16

Senior Year

First Semester	Hours
CHE 313—Transport Phenomena III	3
CHE 381—Chemical Engineering Laboratory I	2
CHE 321—Chemical Reaction Engineering	3
CHE 396—Senior Design I	4
Elective outside the Major Rubric	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 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	17

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)
(312) 996-3428

cme@uic.edu

<http://www.uic.edu/depts/cme/index.html>

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 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) before 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 108—Fortran Programming for Engineers	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 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 406—Bridge 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:	3
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 403—Hydraulic Design (3)	
CME 405—Foundation Analysis and Design (3)	
CME 494—Special Topics in Civil Engineering, Mechanics, and Metallurgy (when topic is Sanitary Engineering Design) (3)	

Total Hours—Required Courses for Civil Engineering Minor	18–19
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DEPARTMENT OF COMPUTER SCIENCE

1120 Science and Engineering Offices (SEO)
(312) 996–3422

ugrad@cs.uic.edu
<http://www.cs.uic.edu>

Administration: Head of the Department, Peter Nelson
Director of Undergraduate Studies, Patrick Troy
Student Services Office: 905 SEO, (312) 996–3463
Academic Adviser: Patrick Troy

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 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
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)	

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:	

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
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.	
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 hours)	
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
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	

One of the following courses must be chosen: 6

IE 342—Probability and Statistics for Engineers (3)^a

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 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	

Required Mathematics Courses

Courses	Hours	
<i>Six hours from among the following list of courses:</i>		
MATH 215—Introduction to Advanced Mathematics (3)	6	
MATH 220—Introduction to Differential Equations (3)		
<i>One of the following courses may be chosen:</i>		
MATH 310—Applied Linear Algebra (3)		
<i>OR</i>		
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		

^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.	
BIOS 100—Biology of Cells and Organisms (5)	12
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)	12
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	

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 non-engineering 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 adviser 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. 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—CAD-Based Computer 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	12
Total Hours	14

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 adviser, 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. 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. 14

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.

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—CAD-Based Computer 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)	
MATH 481—Applied Partial Differential Equations (3)	
MCS 471—Numerical Analysis (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	4
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

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:	4–7
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 adviser.	12–17
These courses should be selected in consultation with the adviser and should be chosen from approved sequences in the following areas:	

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 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

2039 Engineering Research Facility (ERF)
(312) 996-5317
vrodriqz@uic.edu
<http://www.mie.uic.edu>

Administration: Department Head, William W. Worek,
wworek@uic.edu, (312) 996-8421

Department Head Secretary, Evelyn Reyes-Camacho,
evreycam@uic.edu, (312) 996-8421

Undergraduate Director of Mechanical Engineering
Program, Michael Scott, mjscott@uic.edu,
(312) 996-4354

Undergraduate Director of Industrial Engineering
Program, Houshang Darabi, hdarabi@uic.edu,
(312) 996-6593

Student Services: Undergraduate Engineering Office,
123 Science and Engineering Offices (SEO)

Undergraduate Coordinator: Veronica Rodriguez,
vrodriqz@uic.edu, (312) 996-5317

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
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
<i>Nine hours from the list below:</i>	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
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	Hours
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
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
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 341—Ergonomics	3
IE 342—Probability and Statistics for Engineers	3
IE 345—Regression Applications and Forecasting in Engineering	3
IE 365—Methods Analysis and Work Measurement	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—Industrial Automation	3
IE 466—Production Planning and Inventory Control	3
IE 467—Industrial Systems Simulation	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
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
<i>One course from the list below:</i>	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 Electives	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
PHYS 244—General Physics III (Modern Physics)	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 341—Ergonomics I	3
IE 342—Probability and Statistics for Engineers	3
IE 365—Methods Analysis and Work Measurement	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—Industrial Automation	3
IE 467—Industrial Systems Simulation	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
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
IE 201—Financial Engineering	3
Total Hours—Prerequisite Courses for Industrial Engineering Minor	22

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	69
Required in the College of Engineering	55
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
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 110—Introduction to Financial Accounting	3
ACTG 111—Introduction to Managerial Accounting	3
ECON 120—Principles of Microeconomics ^{cd}	3

ECON 121—Principles of Macroeconomics ^{cd}	3
FIN 300—Corporate Finance	3
MGMT 340—Introduction to Organizations	3
MGMT 350—The Social and Legal Environment of Business	3
MGMT 495—Competitive Strategy	4
MKTG 360—Principles of Marketing	3
Total Hours—Nonengineering and General Education Requirements	69

^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
ECE 210—Electrical Circuit Analysis	3
IE 201—Financial Engineering	3
IE 341—Ergonomics I	3
IE 342—Probability and Statistics for Engineers	3
IE 345—Regression Applications and Forecasting in Engineering	3
IE 365—Methods Analysis and Work Measurement	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—Industrial Automation	3
IE 466—Production Planning and Inventory Control	3
IE 467—Industrial Systems Simulation	3
IE 471—Operations Research I	3
IE 472—Operations Research II	3
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.

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 110—Introduction to Financial Accounting	3
CS 108—Fortran Programming for Engineering	3
Total Hours	16

Second Semester	Hours
ACTG 111—Introduction to Managerial Accounting	3
CME 201—Statics	3
ECE 210—Electrical Circuit Analysis	3
MGMT 340—Introduction to Organizations	3
MKTG 360—Principles of Marketing	3
Total Hours	15

Junior Year

First Semester	Hours
IE 341—Ergonomics I	3
IE 342—Probability and Statistics for Engineers	3
IE 365—Methods Analysis and Work Measurement	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—Corporate Finance	3
General Education Core course	3
Total Hours	15

Senior Year

First Semester	Hours
IE 461—Safety Engineering	3
IE 464—Industrial Automation	3
IE 467—Industrial Systems Simulation	3
IE 471—Operations Research I	3
MGMT 350—The Social and Legal Environment of Business	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
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 Krishna Reddy in the Department of Civil and Materials Engineering at kreddy@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:

CHE 421—Combustion Engineering (3)
ME 426—Applied Combustion (3)
ME 429—Internal Combustion Engines (3)
ME/CHE 450—Air Pollution Engineering (4)

3–4

One of the following courses:

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)

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
<i>One of the following courses:</i>	2–3
CME 260—Properties of Materials (3)	
CME 261—Materials for Manufacturing (2)	
<i>Four courses from the following:</i>	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

Dean, Lon Kaufman
103 Burnham Hall (BH)
(312) 413-2260
<http://www.hc.uic.edu>

Administration: Executive Associate Dean, Janet I. Madia
Associate Dean, Leonard Soffer
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, and staff, the Honors College is a destination for advanced intellectual growth and a foundation for lifelong learning.

All Honors College students are required to complete an honors activity each term, in addition to maintaining a minimum grade point average of 3.40/4.00. Freshmen enroll in an interdisciplinary honors core course each semester to complete the honors activity requirement and fulfill University degree requirements. These courses are taught by faculty from various departments and address significant themes in general education. In addition, freshmen may opt to take additional honors courses in subjects, such as calculus, economics, or chemistry.

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, undergraduate research, tutoring in the college peer tutoring program, an honors project in a regular course, academic service learning, and senior theses. All of these activities are monitored through 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, 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 advisers for the students' honors work and as resources for advice and guidance on major, curriculum, preparation for graduate school, and careers. The Honors College fellow mentoring process puts students into close and continuing contact with faculty at an early stage in their postsecondary education.

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.

The Honors College provides merit- and need-based scholarship opportunities for beginning freshmen through the Howard Kerr Scholarships, covering tuition and fees and renewable for up to four years, as well as other freshman scholarships ranging from \$500 to full tuition. 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.

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) in order 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 in which 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 the UIC commencement and 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 International Honour 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 Paul Francuch at (312) 996-3457 or Helga Kraft at (312) 996-3205.

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. The Psi Chi faculty advisor is Dr. Jennifer Wiley, 1054B Behavioral Sciences Building.

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, Christopher M. Comer
309 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. As part of the degree program, a student must complete course work in their chosen discipline in a broad context of knowledge out of which the student 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 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 (or the equivalent) 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 9 total courses. Of those, 7 are prescribed: 2 laboratory courses in Analyzing the Natural World and 1 course in each of the 5 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

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	Classics and Mediterranean Studies	BA in Liberal Arts and Sciences	120
Communication	Communication	BA in Liberal Arts and Sciences	120
Criminal Justice	Criminal 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	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

Note: Degrees in teacher education generally require additional courses for teacher certification beyond the 120 semester hours.

For a description and list of courses for each General Education Core category, students should consult the *General Education* section of the catalog.

Note: Up to 2 courses in the major may count toward the 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, Ancient Greek, Modern Greek, Hebrew, Hindi-Urdu, Italian, Japanese, Latin, Lithuanian, Polish, Russian, Serbian, Spanish, and Ukrainian.
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 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, Criminal 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 150, 152, or English as a Second Language (ESL) must be completed as a prerequisite to English 160. Once enrolled at UIC, any remaining courses to fulfill the University Writing requirement must be taken at UIC. Students may receive 3 hours of proficiency credit in English 160 based on the ACT English subscore. All students must complete English 161.

A student who must take English 150 or 152 will earn 3 semester hours of credit (regardless of the total number of semester hours taken in these courses) only for the term in which written approval and authorization of the Department of English is granted. The student who receives such authorization is exempt from English 160 and may register for English 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 movement sciences activity courses may apply toward the degree. Basic activity courses at UIC include all movement sciences 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 *UIC Web for Student*. Students who do not have access to *UIC Web for Student* should contact the LAS Student Academic Affairs Office to file an 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) 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 adviser 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 chooses 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.html>.

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, Program PM, or nondegree students, 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 adviser. During the eight-week summer session, a minimum full-time program is 6 semester hours. A program of 11 semester hours or more during the summer session must be approved by a college dean or academic adviser.

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 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 make arrangements for an interview, with supporting documentation, with an adviser or dean prior to the first day of instruction of the new term.

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 and the first week of the summer session. 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

Students may drop an LAS class through the Friday of the second week of the fall and spring semesters and through the Friday of the first week of the summer session. All undergraduate students have four opportunities over the course of their UIC enrollment to drop a course without penalty between the third through sixth weeks of the fall and spring semesters and between the second through fifth weeks of the summer session. Course drops after the second week of the semester (first week of the summer term) are noted on the transcript with a W. These drop requests are approved, regardless of the circumstances, provided that the student meets with an LAS academic adviser 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 for an exception.

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 sixth week of the fall and spring semesters, and after the fifth week of the summer session, 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.

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

Over-enrollment 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, 309 University Hall, no later than the tenth day of the term (fifth day for the summer session). 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 adviser.

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 Criminal 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 adviser.

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 the Neuroscience curriculum cannot have a second major in Biological Sciences or Psychology or a minor in either area. A student declaring a degree program defined as a curriculum may not have a second curriculum program.

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, 327 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* at UIC section.

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 adviser prior to registration. Freshmen are required to meet with a college academic adviser 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.

Repeating a Course

Students may repeat a course in which a failing grade or a grade of D (and thus credit) has been assigned. The original credit is forfeited in the case of a D grade although both grades will be included in the cumulative grade point average and will remain on the student's permanent record. Any student planning to repeat a course a second time should see an academic adviser.

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.

An 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.

Second Bachelor's Degree

A student may receive a second bachelor's degree from the College of Liberal Arts and Sciences either concurrent with or 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 *Second Bachelor's Degree* and 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 adviser 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.

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, 309 University Hall. Students are welcome to discuss possible admission to LAS with an academic adviser. 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 College Office, 309 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 education 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-Human Nutrition
- Pre-Law
- Pre-Medicine
- Pre-Nursing
- Pre-Occupational Therapy
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Urban and Public Affairs
- Pre-Veterinary Medicine

Advisers 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 adviser 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 adviser 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-Human Nutrition
- Pre-Nursing
- 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 adviser 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 adviser 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 adviser 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 15 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	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
Criminal Justice	Criminal 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
International Studies	Interdepartmental	21
Italian	Spanish, French, Italian, and Portuguese	21
Jewish Studies	Interdepartmental	18
Latin	Classics and Mediterranean Studies	18
Latin American and Latino Studies	Latin American and Latino Studies	18
Law and Society	Criminal Justice	18
Linguistics	English	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

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, 309 University Hall.

Advising Policy

Students should consult a college adviser 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 department adviser as well. Some students may be required to consult an adviser in order to register for a subsequent term. Unless specifically exempted, all LAS freshman are required to meet with a college adviser during their first two semesters in order to register for the following semester.

LAS advisers 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, advisers can explain college rules and requirements as they pertain to various programs and can help resolve special registration problems. In conjunction with this, advisers 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 adviser for a review of progress toward the degree. Students who have chosen a major must also consult with a departmental adviser 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 adviser 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 adviser.

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 adviser 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: Off Campus. Credit ordinarily is not granted for

this program. For more information, contact the Co-op office at (312) 996-0425, 518 University Hall.

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 adviser; 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 adviser at least once each term and by the tenth day of each term must file an approval form signed by their adviser attesting that the proposal is being followed.
3. Students must make an appointment once a year for a credit check with an LAS adviser.

Study Abroad Programs

The College of Liberal Arts and Sciences offers year 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 the LAS study abroad coordinator, 309 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 Zeleza

Associate Head and Director of Undergraduate Studies,
Lynette Jackson

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
AAST 100—Introduction to African American Studies ^{ab}	3
One 100- or 200-level humanities course:^c	3
AAST 105—African Americans in Film 1900–Present: Images, Individuals, and Ideas on Screen (3)	
AAST 110—Introduction to African American Literature, 1760–1910 (3)	
AAST 111—Introduction to African American Literature since 1910 (3)	
AAST 191—African and Caribbean Francophone Literature in Translation (3)	
AAST 212—Techniques of African American Creative Writing (3)	
AAST 250—Comparative Black Literatures (3)	
AAST 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:^c	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—Pre-Colonial 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)	
AAST 206—Interdisciplinary Research Methods in African American Studies	3
AAST 247—African American History to 1877	3
AAST 248—African American History since 1877	3
AAST 340—Advanced Interdisciplinary Seminar in African American Studies ^d	3
AAST 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 adviser and distributed in the following way:	9
200- or 300-level: at least 6 hours ^e	
400-level: at least 3 hours	
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 AAST 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
AAST 100—Introduction to African American Studies	3
One 100- or 200-level humanities course:	3
AAST 105—African Americans in Film 1900–Present: Images, Individuals, and Ideas on Screen (3)	
AAST 110—Introduction to African American Literature, 1760–1910 (3)	
AAST 111—Introduction to African American Literature since 1910 (3)	
AAST 191—African and Caribbean Francophone Literature in Translation (3)	
AAST 212—Techniques of African American Creative Writing (3)	
AAST 250—Comparative Black Literatures (3)	
AAST 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—Pre-Colonial 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 adviser.	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: Sloan R. Williams, sloanw@uic.edu
Director of Undergraduate Studies, Geography: John D. Monaghan, monaghan@uic.edu
Academic Advisers: Sloan R. Williams, sloanw@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 casework, 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}	3
ANTH 105—Human Evolution ^{de}	5
One course in physical anthropology from the following: ^f	3–4
ANTH 231—Fossil Humans (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:	3
ANTH 220—Method and Theory in Archaeology (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:^f

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 Meso-America (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 adviser. A major interested in a sub-discipline of anthropology (social, physical, archaeological, or linguistic) must arrange a suitable program of electives with an adviser.

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 adviser.

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 adviser.

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 Meso-America (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

411 University Hall (UH)
Administration: Committee Chair, Xiangming Chen,
xmchen@uic.edu

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 adviser	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
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History (HIST)

497—Topics in Cultural History ^a	3
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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
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^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 I	1
CHEM 234—Organic Chemistry II	4

One of the following physical chemistry sequences:

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 II (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 adviser, 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 II (3)	
OR	
None (0)	
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: Interim 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 total minimum 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 advisers 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:

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 233—Plant Phylogeny (4)	
BIOS 244—Introductory Plant Physiology (4)	
BIOS 245—Comparative Animal Physiology (5)	
BIOS 272—Comparative Vertebrate Anatomy (5)	
BIOS 321—Developmental Biology Laboratory (3)	
BIOS 325—Vertebrate Embryology (5)	
BIOS 331—General Ecology Laboratory (2)	
BIOS 351—Microbiology Laboratory (2)	
BIOS 442—Nerve and Muscle Physiology (4) ^c	
BIOS 443—Animal Physiological Systems (4) ^c	

Additional courses at the 200-level or above, chosen with the consent of an adviser, from all department offerings, except BIOS 401, 402, and 403, to bring the total to 36 semester hours in biological sciences. No more than 5 hours of independent study and research courses (BIOS 391, 399) may be applied toward the minimum hours required for the major.

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.

^c BIOS 442 must be taken with BIOS 443.

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 adviser	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 resi-

dence. 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 advisers 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 I	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	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 advisers 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) ^{ac}	
PHYS 142—General Physics II (Electricity and Magnetism) (4) ^{ac}	
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
CIE 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—Courses Recommended for Science Teacher Certification	8–19

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.

^a This course is approved for the Analyzing the Natural World General Education category.

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 major in 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:	14
CHEM 116—Honors General Chemistry I (5) ^{cd}	
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: 2

CHEM 414—Advanced Inorganic Chemistry (2)

CHEM 432—Advanced Organic Chemistry (2)

CHEM 444—Advanced Physical Chemistry (2)

One of the following advanced laboratory courses: 3

CHEM 415—Inorganic Chemistry Laboratory (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 adviser 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:	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)	
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:	8–10
PHYS 141—General Physics I (Mechanics) (4)	
PHYS 142—General Physics II (Electricity and Magnetism) (4)	
OR	
PHYS 105—Introductory Physics I—Lecture (4) ^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 or 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 adviser (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

1204 University Hall (UH)

(312) 996-3281

<http://www.uic.edu/las/clas/>

Administration: Chair, Jennifer Tobin

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

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

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.

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 adviser 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 *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, Kevin G. Barnhurst
Director of Undergraduate Studies, Patricia Harkin
Academic Adviser: 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—Media Processes and Effects	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 CRIMINAL JUSTICE

4022 Behavioral Sciences Building (BSB)

(312) 996-7971

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

Administration: Head, Edna Erez

Director of Undergraduate Studies, Lisa Frohmann,

lfrohman@uic.edu

Academic Adviser: Dwayne Alexander

Criminal 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 Criminal Justice

Admission to the Major

Prior to declaring a major in Criminal Justice, students must achieve a grade of C or better in CRJ 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 Criminal 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 Criminal 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 Criminal 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
CRJ 101—Introduction to the Justice System ^a	3
CRJ 200—Law in Society ^a	3
CRJ 210—Principles of Criminal Law	3
CRJ 220—Criminology	3
CRJ 240—Criminal Justice Organizations	3
CRJ 261—Research Methods I	3
CRJ 262—Research Methods II ^b	3

One course from the following:

CRJ 345—Police in Society (3)
CRJ 350—Introduction to the Criminal Courts (3)
CRJ 355—Introduction to Corrections (3)

CRJ 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 CRJ 262 also fulfills the LAS Quantitative Reasoning requirement.

^c CRJ 301 fulfills the Writing-in-the-Discipline requirement.

^d Only 3 hours of CRJ 395 may count toward the degree.

Recommended Plan of Study

To view a recommended plan of study for the major in Criminal Justice, please visit the LAS Web site <http://www.uic.edu/las/college/info/fygp>.

Minor in Criminal Justice

Students from other disciplines who want to minor in Criminal Justice must complete 18 credit hours as outlined below:

Required Courses—Criminal Justice Minor	Hours
CRJ 101—Introduction to the Justice System	3
CRJ 200—Law in Society	3
CRJ 210—Principles of Common Law	3
CRJ 220—Criminology	3
CRJ 240—Criminal Justice Organizations	3
One course at the 300- or 400-level chosen with the consent of the adviser	3
Total Hours—Criminal 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
CRJ 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:	
CRJ 110—Legal Rights and Responsibilities (3)	
CRJ 210—Principles of Criminal Law (3)	
CRJ 310—Substantive Criminal Law (3)	
CRJ 311—Criminal Procedure (3)	

Law in Social Context:

POLS 120—Introduction to Political Theory (3)
CRJ 200—Law in Society (3)
CRJ 220—Criminology (3)
CRJ 423—Violence (3)
CRJ 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 adviser.

Distinction

Departmental Distinction. A candidate must have a 3.50/4.00 cumulative GPA in all criminal 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 criminal justice courses, a 3.25/4.00 cumulative GPA in all UIC courses, and complete a paper written for CRJ 399—Independent Study, which will be reviewed by a faculty adviser 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
(312) 996-3154

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

Administration: Head, Neil C. Sturchio
Director of Undergraduate Studies, Steven L. Forman

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.

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 advisers 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 *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisers 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 Ia	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 adviser	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 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

2103 University Hall (UH)

(312) 996–2683

uicecon@web.econ.uic.edu

<http://www.uic.edu/cba/cba-depts/economics/>

Administration: Head of the Department, Barry Chiswick
Director of Undergraduate Studies, Evelyn Lehrer,
elehrer@uic.edu

The Department of Economics offers a Bachelor of Arts degree with a major in Economics for students in the College of Liberal Arts and Sciences. 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 introductory 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

Courses	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
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.

Electives

Aside from the courses required for the major, no more than 24 semester hours of courses may be taken in the College of Business Administration.

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

Liberal arts 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.

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

DEPARTMENT OF ENGLISH

2027 University Hall (UH)

(312) 413-2200

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

Administration: Head, Walter Benn Michaels

Director of Undergraduate Studies, Terence Whalen,
twhalen@uic.edu

The Department of English offers a Major in English and Minor in English, Major in Teacher Education and Minor in Teacher Education, and a Minor in Linguistics.

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, non-fiction 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.

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.

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. In certain cases, students may petition the Office of Undergraduate Studies to have courses counted toward concentrations 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
Genre (Poetry, Prose, or Drama):	
Poetry: ENGL 103, 303, 355, 437	
Prose: ENGL 105, 106, 305, 439	
Drama: ENGL 104, 107, 304, 313, 413, 438, 495	
Literature 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	
Literature after 1900:	
ENGL 114, 119, 260, 318, 319, 320, 325, 326, 327, 333, 351, 358, 422, 427, 428	
British Literature:	
ENGL 107, 108, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 403, 405, 408, 413, 416, 417, 419, 421	
American Literature:	
ENGL 109, 112, 113, 118, 119, 123, 261, 295, 321, 323, 324, 325, 326, 327, 328, 351, 355, 357, 359, 426, 427, 441, 470, 471, 473	
American Ethnic and Minority Literatures:	
ENGL 112, 113, 118, 119, 123, 260, 261, 295, 328, 351, 355, 357, 359, 441, 470, 471, 473	
Colonial, Postcolonial, and New Literatures in English Other Than British or American:	
ENGL 114, 260, 333, 351, 358, 422	
Cultural and Media Studies:	
ENGL 102, 110, 115, 120, 121, 232, 233, 302, 341, 342, 343, 351, 375, 428, 429, 438, 440, 472, 474, 478	
Gender, Sexuality, and the Body:	
ENGL 111, 117, 361, 362, 363, 364, 443, 444, 445, 469, 472	
Theory, Criticism, Language, and Rhetoric:	
ENGL 122, 200, 370, 372, 374, 375, 400, 401, 402, 403, 446, 448, 483, 484, 485	

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 1660
- One course in materials between 1660 and 1900
- One course in materials after 1900
- One course in one of the following concentration groups:
American and Ethnic Minority Literatures; Colonial, Postcolonial, and New Literatures in English Other Than British and American; Cultural and Media Studies; Gender, Sexuality, and the Body

Courses Within Each Distribution***Materials before 1660:**

ENGL 107, 297, 311, 312, 313, 314, 403, 405, 408, 413, 416, 478

Materials between 1660 and 1900:

ENGL 118, 315, 316, 317, 321, 323, 324, 417, 419, 421, 426

Materials after 1900:

ENGL 114, 119, 120, 121, 232, 233, 260, 302, 318, 319, 320, 325, 326, 327, 333, 351, 358, 422, 427, 428, 472

**American Ethnic and Minority Literatures;
Colonial, Postcolonial, and New Literatures
Other Than British or American; Cultural and
Media Studies; Gender, Sexuality, and the Body:**

ENGL 102, 110, 111, 112, 113, 114, 115, 117, 118, 119, 120, 121, 123, 232, 233, 260, 270, 295, 302, 328, 333, 341, 342, 343, 351, 355, 357, 358, 359, 361, 362, 363, 364, 375, 422, 428, 429, 438, 440, 441, 443, 444, 445, 469, 470, 471, 472, 473, 474, 478

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
ENGL 240—Introduction to Literary Study and Critical Methods	3
One of the following courses:	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
One course from one of the following concentration fields:	3
American Ethnic and Minority Literatures	
Colonial, Postcolonial, and New Literatures in English Other Than British or American	
Cultural and Media Studies	
Gender, Sexuality, and the Body	
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 adviser.	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 require-

ments. 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.

Linguistics

Linguistics may be broadly defined as the systematic study of language encompassing both theoretical and applied approaches.

Theoretical linguistics has as its principal aim the study of the structural properties of individual languages, language families, and language in general. Subfields of theoretical linguistics include historical, comparative, and contrastive linguistics, all of which focus on the development of and the relationships among languages.

Applied linguistics involves aspects of the study of language that extend beyond theoretical linguistics (e.g., dialectology and language pedagogy) or relate to other disciplines (e.g., sociolinguistics, the relationship of language to society).

Undergraduate courses are designed to help the student understand how language is organized and used to code and communicate knowledge, to effect action, and to establish, maintain, and reaffirm social relationships. Students majoring in any field, but especially languages, literature, or the social sciences, can benefit from the study of linguistics.

Minor in Linguistics

Students from other disciplines who want to minor in Linguistics must complete 18 semester hours in the following courses.

Required Courses—Linguistics Minor	Hours
LING 405—Introduction to General Linguistics	3
LING 415—Linguistic Structures I	3
LING 425—Linguistic Structures II	3
Nine additional hours in Linguistics courses, excluding LING 150	9
Total Hours—Linguistics Minor	18

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.

GENDER AND WOMEN'S STUDIES PROGRAM

1804 University Hall (UH)
(312) 996-2441

james@uic.edu

<http://www.uic.edu/depts/wsweb/WSweb.html>

Administration: Director, Judith Kegan Gardiner

Academic Adviser: Assistant Director, Maureen Madden,
momadden@uic.edu

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. 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. It will also leave them better equipped to meet the challenges of contemporary society—in their families and communities, in the work place, and as citizens.

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 program degree requirements. The Gender and Women's 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 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^e each from three of the four following categories:	9

Culture and Representation

GWS 111, 117, 120, 192, 211, 244, 261, 272, 275, 276, 304, 311, 361, 363, 406, 413, 439, 462, 469, or 472.

Science, Health, and the Body

GWS 214, 312, 315, 419, 441, 450, or 462.

Feminism, Social Policy, and the State

GWS 110, 202, 224, 232, 259, 275, 276, 356, 406, 412, 424, 425, 462, 478, 484, or 485.

Sexuality and Society

GWS 117, 203, 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 Tantillo

Director of Undergraduate Studies, Helga Kraft,
kraft@uic.edu

Academic Advisers: Sara Hall, Germanic Studies; 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 (I) ^b	6
Twelve hours of designated literature/culture courses (I/c) ^b	12
Nine hours of additional Germanic studies courses. Program must be approved by major adviser.	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
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
Nine hours of Germanic studies courses, GER 492 and 493 are recommended	9
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 110—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 adviser.

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 (3)
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
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Total Hours—Major Requirements	34
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^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 adviser 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 require-

ments. 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; or GER 111, 112, 113, and 114.

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, no time, no 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 finding, evaluating, 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 jobs in a wide variety of fields, including business, journalism, government, information science, museums, and the law.

BA with a Major in History

Degree Requirements—Major in History

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 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 in the Teaching of History degree 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)	3
HIST 420—Teaching the Social Sciences (3) ^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 their adviser, 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.

All teacher education majors are assigned a department adviser and should seek advising before each semester's registration.

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
ED 330—Curriculum, Instruction, and Evaluation in the Secondary School	4
SPED 410—Survey of Characteristics of Learners with Disabilities	3
CIE 414—Middle and High School Literacy	3
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.

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 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

411 University Hall (UH)

(312) 996-3361

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

Administration: Committee Chair, Lynette Jackson

Minor in International Studies

The LAS International Studies Committee offers a minor in International Studies. The minor can be chosen from one of three areas: (1) world markets and development; (2) global cultures and societies; or (3) international security and governance. The minor, designed to complement a student's major field of study, 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 adviser 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
One of the following courses:	3
HIST 106—The World since 1400 (3)	
HIST 114—Topics in World History (3)	
One of the following courses:	3
POLS 130—Introduction to Comparative Politics (3)	
POLS 184—Introduction to International Relations (3)	
LAS 301—Seminar in International Studies	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 Adviser: 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:

- to study the experience and/or texts of Jews from Biblical times to the present;
- to acquire a deeper understanding of Jewish culture as one strand in contemporary multicultural America;
- to develop critical thinking, writing, and discussion skills; and
- to 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 adviser 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 and 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

Latin American and Latino Studies Program
1527 University Hall (UH)
(312) 996-2445

<http://www.uic.edu/las/latamst/>

Administration: Director, Maria De Los Angeles Torres
Director of Undergraduate Studies, Javier Villa-Flores,
javier@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 of the Department, Jerry Bona
Director of Undergraduate Studies, Charles Tier,
dus@math.uic.edu

Academic Advisers: Florencio Diaz and Mary F. Hemby

Introduction

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, 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 adviser 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 total minimum 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.	15
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 adviser 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	36
Additional Requirements for Teacher Certification	34
General Education and Electives to reach minimum total hours	50
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	4
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	36

^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
CIE 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 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
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.	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 adviser 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 OR	
MCS 360—Introduction to Data Structures	3–4
Analyzing Natural World course	4–5
General Education Core course	3
General Education Core course	3–4
Total Hours	13–16

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, MCS, or STAT elective	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 OR	
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 OR	

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

Courses	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 adviser 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 adviser 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
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Germanic Studies (GER)

217—German Cinema	3
422—Germanic Cultural Studies III: Themes	3

Italian (ITAL)

180—Italian Cinema	3
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Latin American and Latino Studies (LALS)

278—Latin American/Latino Film Studies	3
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Philosophy (PHIL)

234—Philosophy and Film	3
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Polish (POL)

150—Introduction to Polish Cinema	3
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Russian (RUSS)

150—Introduction to Russian Cinema	3
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NATIVE AMERICAN STUDIES

1016 University Hall (UH)
(312) 996-5482
hosmerb@uic.edu
Administration: Committee Chair, Brian Hosmer

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 adviser. 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, John P. Leonard
Academic Adviser: Stephen Kelso, skelso@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 ^{c,d}	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 I	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:	3
BIOS 286—Biology of the Brain (3)	
PSCH 262—Physiological Psychology (3)	
One of the following courses:	3
PHIL 203—Metaphysics (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:	4–9
BIOS 483—Neuroanatomy (4)	
BIOS 486—Animal Behavior and Neuroethology (4)	
BIOS 489—Cellular Neurobiology Lab (3)	
PSCH 351—Laboratory in Perception (2)	
PSCH 361—Laboratory in Learning and Conditioning (2)	
PSCH 363—Laboratory in Physiological Psychology (2)	
One of the following courses:	3
PSCH 350—Sensation and Perception (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 adviser.

Electives to complete degree requirement of 120 hours 0–18

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, Neal Grossman,
nealg@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

Students select from the Major in Philosophy or the Major in Philosophy with Departmental Distinction.

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	31
General Education and Electives to reach minimum total hours	89
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 31 semester hours required for the major, students must complete at least 12 semester hours at the 400-level, excluding the one hour of credit earned in PHIL 400.

Courses	Hours
Three philosophy courses, 1 from each of 3 of these 5 groups:	9

Group 1:

PHIL 220—Ancient Philosophy I:
Plato and His Predecessors (3)
PHIL 420—Plato (3)

Group 2:

PHIL 221—Ancient Philosophy II:
Aristotle and His Successors (3)
PHIL 421—Aristotle (3)

Group 3:

PHIL 422—Medieval Philosophy (3)

Group 4:

PHIL 223—History of Modern Philosophy I:
Descartes and His Successors (3)
PHIL 423—Studies in Early Modern Philosophy (3)

Group 5:

PHIL 224—History of Modern Philosophy II:

Kant and His Predecessors (3)

PHIL 424—Kant (3)

PHIL 102—Introductory Logic^a 3

PHIL 210—Symbolic Logic 3

Two courses from the following list: 6

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 241—Philosophy of Religion (3)

PHIL 401—Theory of Knowledge (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: 3

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 6

PHIL 400—Philosophical Writing^b 1

Total Hours—Major Requirements 31

^a PHIL 102 also fulfills the LAS Quantitative Reasoning requirement.

^b PHIL 400 also fulfills the Writing-in-the-Discipline requirement. Must be taken in conjunction with 400-level courses as designated in the Schedule of Classes.

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.

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 with Departmental Distinction Degree Requirements	Hours
Major Requirements	34
General Education and Electives to reach minimum total hours	86
Minimum Total Hours—BA with a Major in Philosophy 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

Of the 34 semester hours required for the major with distinction, students must complete at least 15 semester hours at the 400-level, excluding the one hour of credit earned in PHIL 400.

Courses	Hours
Four philosophy courses, 1 from each of 4 of these 5 groups:	12
Group 1: PHIL 220—Ancient Philosophy I: Plato and His Predecessors (3) PHIL 420—Plato (3)	
Group 2: PHIL 221—Ancient Philosophy II: Aristotle and His Successors (3) PHIL 421—Aristotle (3)	
Group 3: PHIL 422—Medieval Philosophy (3)	
Group 4: PHIL 223—History of Modern Philosophy I: Descartes and His Successors (3) PHIL 423—Studies in Early Modern Philosophy (3)	
Group 5: PHIL 224—History of Modern Philosophy II: Kant and His Predecessors (3) PHIL 424—Kant (3)	
The first two courses or the second or third course listed below:	3–6
PHIL 102—Introductory Logic(3) ^a PHIL 210—Symbolic Logic (3) OR PHIL 410—Introduction to Formal Logic (3) OR PHIL 416—Metalogic I (3)	
Two courses from the following list:	6
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 241—Philosophy of Religion (3) PHIL 401—Theory of Knowledge (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)	
Two courses from the following list:	6
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) PHIL 400—Philosophical Writing ^b	1
Electives	3–6
Total Hours—Major Requirements	34

^a PHIL 102 also fulfills the LAS Quantitative Reasoning requirement.

^b PHIL 400 also fulfills the Writing-in-the-Discipline requirement. Must be taken in conjunction with 400-level courses as designated in the Schedule of Classes.

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)	
Two additional philosophy courses, as least one of which must be at the 400-level, excluding PHIL 400 and 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
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 advisers for majors in all of its programs. Students are required to have their schedules approved by their advisers 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 *College of Liberal Arts and Sciences* section for information on meeting these requirements. Students should consult the course lists below and their advisers 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.	8–10
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)	
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 advisers 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}	4
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	Hours
<i>One of the following sequences in physics.</i>	
<i>The PHYS 105–108 sequence requires a grade of B or better in each course.</i>	
<i>The PHYS 141–142 sequence is strongly recommended.</i>	
	8–10
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)	
PHYS 244—General Physics III (Modern Physics)	3
PHYS 245—General Physics IV (Heat, Fluids, and Wave Phenomena)	4
<i>One of the following courses:</i>	
	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—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.	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}	
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 course 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 courses from the following:

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

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,
 Gary E. Raney
 Director of Undergraduate Studies,
 Professor Bette L. Bottoms, bbottoms@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, writing, 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 concentration take an additional three courses to fulfill their requirements testing, fieldwork, and one in industrial/organizational, interviewing, interventions, or group dynamics.

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—English Composition II
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 with no grade in any of these courses lower than a C. 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 complete two other psychology courses at UIC and earn a 3.00/4.00 GPA in those two courses to remain in the major. Students must complete the 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 as courses needed to be removed 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		27
General Education and Electives to reach minimum total hours		93
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 303—Writing in Psychology ^b	3
PSCH 343—Statistical Methods in Behavioral Science ^c	3
At least one of the following courses:	2–3
PSCH 262—Physiological Psychology (3)	
PSCH 350—Sensation and Perception (3)	
PSCH 351—Laboratory in Perception (2)	
PSCH 352—Cognition and Memory (3)	
PSCH 353—Laboratory in Cognition and Memory (2)	
PSCH 360—Learning and Conditioning (3)	
PSCH 361—Laboratory in Learning and Conditioning (2)	
PSCH 363—Laboratory in Physiological Psychology (2)	
At least one of the following courses:^d	2–3
PSCH 210—Theories of Personality (3)	
PSCH 231—Community Psychology (3)	
PSCH 270—Abnormal Psychology (3)	
PSCH 312—Social Psychology (3)	
PSCH 313—Laboratory in Social Psychology (2)	
PSCH 320—Developmental Psychology (3)	
PSCH 321—Laboratory in Developmental Psychology (2)	
PSCH 331—Community and Prevention Research (3)	
Additional psychology courses for minimum of 27 semester hours	8–10
Total Hours—Major Requirements	27

^a This course is approved for the Understanding the Individual and Society General Education category.

^b PSCH 303 fulfills the Writing-in-the-Discipline requirement.

^c PSCH 343 fulfills the LAS Quantitative Reasoning 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 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 303—Writing in Psychology ^b	3
PSCH 340—Psychological Testing	3
PSCH 343—Statistical Methods in Behavioral Science ^c	3
PSCH 385—Field Work in Applied Psychology	3
At least one of the following courses:	2–3
PSCH 262—Physiological Psychology (3)	
PSCH 350—Sensation and Perception (3)	
PSCH 351—Laboratory in Perception (2)	
PSCH 352—Cognition and Memory (3)	
PSCH 353—Laboratory in Cognition and Memory (2)	
PSCH 360—Learning and Conditioning (3)	
PSCH 361—Laboratory in Learning and Conditioning (2)	
PSCH 363—Laboratory in Physiological Psychology (2)	
At least one of the following courses:^d	2–3
PSCH 210—Theories of Personality (3)	
PSCH 231—Community Psychology (3)	
PSCH 270—Abnormal Psychology (3)	
PSCH 312—Social Psychology (3)	
PSCH 313—Laboratory in Social Psychology (2)	
PSCH 320—Developmental Psychology (3)	
PSCH 321—Laboratory in Developmental Psychology (2)	
PSCH 331—Community and Prevention Research (3)	
At least one of the following courses:	3
PSCH 330—Industrial and Organizational Psychology (3)	
PSCH 381—Psychology of Interviewing (3)	
PSCH 382—Psychological Interventions (3)	
PSCH 383—Psychology of Groups (3)	
Additional psychology courses for a minimum of 36 semester hours	8–10
Total Hours—Major Requirements	36

^a This course is approved for the Understanding the Individual and Society General Education category.

^b PSCH 303 fulfills the Writing-in-the-Discipline requirement.

^c PSCH 343 fulfills the LAS Quantitative Reasoning 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 under the supervision of a faculty adviser. 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	27
Required Collateral Courses	11–15
General Education and Electives to reach minimum total hours	78–82
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 303—Writing in Psychology ^b	3
PSCH 343—Statistical Methods in Behavioral Science ^c	3
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:^d	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:	4–5
PSCH 313—Laboratory in Social Psychology (2)	
PSCH 321—Laboratory in Developmental Psychology (2)	
PSCH 331—Community and Prevention Research (3)	
PSCH 351—Laboratory in Perception (2)	
PSCH 353—Laboratory in Cognition and Memory (2)	
PSCH 361—Laboratory in Learning and Conditioning (2)	
PSCH 363—Laboratory in Physiological Psychology (2)	
Additional psychology courses for minimum of 27 semester hours	3–4
Total Hours—Major Requirements	27

^a This course is approved for the Understanding the Individual and Society General Education category.

^b PSCH 303 fulfills the Writing-in-the-Discipline requirement.

^c PSCH 343 fulfills the LAS Quantitative Reasoning requirement.

^d Students should consult the General Education section of the catalog to determine if any of these courses are approved General Education courses.

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 adviser in Religious Studies. Any changes must be approved by the adviser.

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 adviser	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 adviser in Religious Studies.

Courses	Hours
African American Studies (AAS)	
120—African American Religious Traditions	3
445—History of Islam in the African World Same as HIST 445	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 Same as RELS 120	3
150—Catholicism in U.S. History Same as HIST 150, RELS 150	3
294—Topics in Catholic History Same as HIST 294, RELS 294	3
394—Topics in Catholic History and Culture Same as RELS 394	3
Classics and Mediterranean Studies (CL)	
207—Greek Temples and Festivals Same as HIST 201	3
208—Greek Mythology	3
English (ENGL)	
115—Understanding the Bible as Literature Same as JST 115, RELS 115	3
478—The Bible as Literature Same as JST 478	3
479—Religion and Literature	3
History (HIST)	
150—Catholicism in U.S. History Same as CST 150, RELS 150	3
256—The American Religious Experience	3
294—Topics in Catholic History Same as CST 294, RELS 294	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 Same as ENGL 115, RELS 115	3
478—The Bible as Literature Same as ENGL 478	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—Introduction 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, Giedrius Subacius,
subacius@uic.edu

There is an Endowed Chair of Lithuanian Studies in the department, established by the Lithuanian World Community Foundation.

The programs in Slavic languages and literatures focus on the study of the languages, literatures, cultures, and civilizations of the Slavic people who inhabit almost all of Eastern Europe. The program in Lithuanian studies represents the Baltic component of the department. A wide selection of courses in Lithuanian, Polish, Russian, Serbian, and Ukrainian provides the student interested in Slavic or Lithuanian studies with several options:

1. To fulfill the foreign language requirement
2. To fulfill General Education Core requirements
3. To minor in Polish, Russian, or Lithuanian Studies
4. To major in Russian or Polish in order to earn the Bachelor of Arts in Liberal Arts and Sciences with majors in Russian or Polish

A baccalaureate degree in Russian or Polish, or a minor in Russian, Polish, or Lithuanian Studies combined with another major, provides important language skills and a solid understanding of Slavic and Baltic cultures. These are strong assets for many jobs in federal, state, and city agencies, the armed forces, and national security establishments; in banks and businesses dealing with Eastern Europe; in publishing and data-gathering companies; in transportation and tourist industries; and in ethnic cultural services (cultural centers, libraries and museums, ethnically oriented public media, etc.) and organizations.

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.

Total Hours—Major Requirements	36
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^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 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 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 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

4112 Behavioral Sciences Building (BSB)
(312) 996-3005
brisman@uic.edu
<http://www.uic.edu/depts/soci/>

Administration: Head, Barbara Risman;
Administrative Assistant, Teri Williams
Student Services: Undergraduate Secretary, Olga Padilla
Academic Adviser: Helen Miller

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, labor markets and organizations, and urban sociology. Students majoring in Sociology will gain an understanding of, and the ability to use, key sociological theories, methodological approaches of the field of sociology, 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, justice system, community and social services, government, education, 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, labor markets, and organizations; 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 in 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, labor markets, and organizations; 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 life-time learning.

DEPARTMENT OF SPANISH, FRENCH, ITALIAN, AND PORTUGUESE

1727 University Hall (UH)
(312) 996-3236

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

Administration: Head, Dianna Niebylski
Director of Undergraduate Studies, Spanish: Rosie Hernandez-Pecoraro, rosieher@uic.edu

Director of Undergraduate Studies, French: Ellen McClure, eelenmc@uic.edu

Director of Undergraduate Studies, Italian: Mauda Bregoli-Russo, mabrer@uic.edu

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 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 department also offers its majors the opportunity to take Portuguese for speakers of Spanish that allows the Spanish major to reach an acceptable degree of proficiency in the second most important Peninsular and Latin American language.

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, French, and Italian, 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, 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 Spanish Degree Requirements	Hours
Major Requirements	36
Required Collateral Course	4
General Education and Electives to reach minimum total hours	80
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
One of the following options depending on student's fluency:	3

For students who are not fluent Spanish speakers:
SPAN 200—Conversational Spanish (3)

For students who are fluent Spanish speakers:

Substitute a SPAN course at the 200-, 300-, or 400-level or one of the following LALS courses^a for SPAN 200:

LALS 278—Latin American/Latino Film Studies (3)

LALS 295—Latino Literary Studies (3)

LALS 495—Topics in Latino Community Studies (3)

SPAN 201—Spanish Composition 3

SPAN 210—Introduction to the Reading of Hispanic Texts^{bc} 3

SPAN 211—Introduction to the Analysis of Hispanic Texts^{bc} 3

SPAN 303—Advanced Spanish Composition 3

SPAN 305—Advanced Spanish Grammar 3

Three courses from the following: 9

SPAN 310—Early Spanish Literature and Society (3)

SPAN 311—Modern Spanish Literature and Society (3)

SPAN 314—Spanish American Literature from Columbus to Modernismo (3)

SPAN 315—Spanish American Literature since Modernismo (3)

SPAN 375—Topics in Hispanic Literature and Culture (3)

SPAN 390—Senior Seminar: Topics in Research and Writing^d 3

Two additional courses, excluding SPAN 448 and 449.

Students should select these courses from 200-, 300-, and 400-level SPAN courses or from the LALS courses^e identified above. At least one of these courses must be a 300- or 400-level SPAN course. 6

Total Hours—Major Requirements **36**

^a Students should consult the General Education section of the catalog to determine which of these courses are approved General Education courses.

^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 SPAN 390 fulfills the Writing-in-the-Discipline requirement.

^e Only one LALS course may count toward the major in Spanish.

Required Collateral Course

Course^a	Hours
One of the following courses:	4
PORT 240—Rapid Portuguese for Spanish Speakers (4)	
ITAL 240—Rapid Italian Language for Spanish Speakers (4)	
Total Hours—Required Collateral Course	4

^a With department approval, students may substitute any course in French or Italian at the 200-level or above.

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 18 semester hours as outlined below:

Required Courses—Spanish Minor	Hours
One of the following options depending on student's fluency:	3

For students who are not fluent Spanish speakers:

SPAN 200—Conversational Spanish (3)

For students who are fluent Spanish speakers:

Substitute a SPAN course at the 200-, 300-, or 400-level or one of the following LALS courses for SPAN 200:

LALS 278—Latin American/Latino Film Studies (3)

LALS 295—Latino Literary Studies (3)

LALS 495—Topics in Latino Community Studies (3)

SPAN 201—Spanish Composition 3

SPAN 210—Introduction to the Reading of Hispanic Texts 3

SPAN 211—Introduction to the Analysis of Hispanic Texts 3

One of the following courses: 3

SPAN 205—Introduction to Spanish Phonetics (3)

SPAN 230—Civilization and Culture of Spain (3)

SPAN 231—Civilization and Culture of Spanish America (3)

One course from the following: 3

SPAN 303—Advanced Spanish Composition (3)

SPAN 305—Advanced Spanish Grammar (3)

SPAN 310—Early Spanish Literature and Society (3)

SPAN 311—Modern Spanish Literature and Society (3)

SPAN 314—Spanish American Literature from

Columbus to Modernismo (3)

SPAN 315—Spanish American Literature since Modernismo (3)

Total Hours—Spanish Minor **18**

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 200—Conversational Spanish ^c	3
SPAN 201—Spanish Composition	3
SPAN 220—Spanish for Business and Law	3
SPAN 230—Civilization and Culture of Spain	3
SPAN 231—Civilization and Culture of Spanish America ^{de}	3
SPAN 260—Meso-American Literature and Culture ^{ef}	3
SPAN 261—South American Literature and Culture ^{ef}	3
SPAN 303—Advanced Spanish Composition	3
SPAN 305—Advanced Spanish Grammar	3
SPAN 320—Advanced Business Spanish	3
One of the following courses:	5
MATH 160—Finite Mathematics for Business (5) ^{gh}	
MATH 165—Calculus for Business (5) ^{gh}	
ECON 120—Principles of Microeconomics ^{ij}	3
ECON 121—Principles of Macroeconomics ^{ij}	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:	12
ECON 211—Topics in Economics Taught in Spanish (3)	
ECON 333—International Economics (3)	
ECON 334—Economic Development (3)	
One of the following two courses to fulfill the Writing-in-the-Discipline requirement:	0–1
ECON 395—Research and Writing in Economics (0)	
SPAN 370—Writing and Research in the Major (1)	
Free electives to bring total number of hours to 120	25–46
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 112, 113, and 114.

^c Fluent Spanish speakers substitute another 200- or 300-level Spanish course

^d This course is approved for the Understanding the Past General Education category.

^e This course is approved for the Exploring World Cultures General Education category.

^f This course is approved for the Understanding the Creative Arts General Education category.

^g This course is approved for the Analyzing the Natural World General Education category.

^h This course fulfills the LAS Quantitative Reasoning requirement.

ⁱ This course is approved for the Understanding the Individual and Society General Education category.

^j 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	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 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
One of the following options depending on student's fluency:	3

For students who are not fluent Spanish speakers:

SPAN 200—Conversational Spanish (3)

For students who are fluent Spanish speakers:

Substitute a SPAN course at the 200-, 300-, or 400-level or one of the following LALS courses^a for SPAN 200:

LALS 278—Latin American/Latino Film Studies (3)

LALS 295—Latino Literary Studies (3)

LALS 495—Topics in Latino Community Studies (3)

SPAN 201—Spanish Composition	3
SPAN 210—Introduction to the Reading of Hispanic Texts ^{bc}	3
SPAN 211—Introduction to the Analysis of Hispanic Texts ^{bc}	3
SPAN 230—Civilization and Culture of Spain	3
SPAN 231—Civilization and Culture of Spanish America ^{bd}	3
SPAN 300—Introduction to Hispanic Linguistics	3
SPAN 303—Advanced Spanish Composition	3
SPAN 305—Advanced Spanish Grammar	3
SPAN 448—Foundations of Second Language Teaching	3
SPAN 449—Teaching Second Language Literacy and Cultural Awareness	3
SPAN 390—Senior Seminar: Topics in Research and Writing ^e	3
One course from the following:	3
SPAN 310—Early Spanish Literature and Society (3)	
SPAN 311—Modern Spanish Literature and Society (3)	
SPAN 314—Spanish American Literature from Columbus to Modernismo (3)	
SPAN 315—Spanish American Literature since Modernismo (3)	
SPAN 375—Topics in Hispanic Literature and Culture (3)	
Total Hours—Major Requirements	39

^a Students should consult the General Education section of the catalog to determine which of these courses are approved General Education courses.

^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 the Past General Education category.

^e SPAN 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
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
One of the following options depending on student's fluency:	3

For students who are not fluent Spanish speakers:

SPAN 200—Conversational Spanish (3)

For students who are fluent Spanish speakers:

Substitute a SPAN course at the 200-, 300-, or 400-level or one of the following LALS courses for SPAN 200:

LALS 278—Latin American/Latino Film Studies (3)

LALS 295—Latino Literary Studies (3)

LALS 495—Topics in Latino Community Studies (3)

SPAN 201—Spanish Composition 3

SPAN 210—Introduction to the Reading of Hispanic Texts 3

SPAN 211—Introduction to the Analysis of Hispanic Texts 3

One of the following courses:

SPAN 230—Civilization and Culture of Spain (3)	3
SPAN 231—Civilization and Culture of Spanish America (3)	
SPAN 305—Advanced Spanish Grammar	3
One additional 300-level SPAN course	3
Total Hours—Teaching of Spanish Minor	21

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

A significant portion of the credits for the major in Spanish may be earned through the Year Abroad Program conducted in Barcelona, Spain. Students who wish to be considered for this program must arrange to complete Spanish 104 or 114 before departure in September. The department strongly recommends some courses beyond Spanish 104/114.

In conjunction with the Committee for Institutional Cooperation (CIC), the department offers an eight-week summer program at the Universidad de Guanajuato in Guanajuato, Mexico. Open to all students with third-year proficiency in Spanish, the program provides broad-based experience in the Spanish language, Mexican art and literature, and South American culture.

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 French Literature I ^{ab}	3
FR 202—Introduction to 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 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
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 French Literature I ^{ab}	3
FR 202—Introduction to 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

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.*

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 both 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	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:	6–7
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:

STAT 473—Game Theory (3)	6
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	
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Statistics—Two courses from the following:

STAT 381—Applied Statistical Methods I (3)	6
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)	
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IDS 476—Business Forecasting Using Time Series Methods (3)	
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Electives in the area of statistics, operations research, mathematics, and computing to be chosen in consultation with a program adviser from the following:

MATH 215—Introduction to Advanced Mathematics (3)	6
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 adviser 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, Christopher M. Comer

Senior Associate Dean, Emanuel D. Pollack

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-Human Nutrition, Pre-Law, Pre-Medicine, Pre-Nursing, Pre-Occupational Therapy, Pre-Pharmacy, Pre-Physical Therapy, Pre-Urban and Public Affairs, and Pre-Veterinary Medicine.

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-Human 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. 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. 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 adviser and an adviser 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. 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. Although advisers are available to assist students, 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

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	34	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	UIUC College of Veterinary Medicine

^a Although the prerequisites for admission to professional programs are those for University of Illinois professional colleges, students interested in other institutions should consult those programs for their requirements.

Preprofessional studies in these health sciences areas prepare students for professional programs that generally require a bachelor's degree prior to matriculation. Students selecting one of these areas must also choose an undergraduate major and complete all requirements for the degree. If admitted to the professional college, students complete an advanced degree in the professional college.

Pre-Dentistry

Pre-dentistry students may choose any major, but should work with a preprofessional adviser 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	
OR	
CHEM 116—Honors General Chemistry I (5) ^c	
CHEM 118—Honors General Chemistry II (5) ^c	
CHEM 232—Organic Chemistry I	4
CHEM 233—Organic Chemistry Laboratory I	1
CHEM 234—Organic Chemistry II (optional, but preferred)	4
MATH 121—Precalculus Mathematics	5
PHYS 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
Electives to complete the required total of 90 semester hours ^e	40
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 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 <http://www.aadea.org/DAS/AADSAS/default.htm>.

Students may obtain information regarding the DAT and AADSAS by scheduling an appointment with an LAS pre-professional adviser in 309 University Hall. 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/DMS/Instlinks/default.htm>.

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 adviser 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	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	5

MATH 180—Calculus I (Recommended)^b 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 adviser to select courses in anthropology, psychology, and/or sociology that are approved for General Education.

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 service (AMCAS) sponsored by the Association of American Medical Colleges. The MCAT should be taken after completion of the minimum pre-medical course requirements.

Students may obtain information regarding the MCAT and AMCAS by scheduling an appointment with an LAS preprofessional adviser, 309 University Hall. 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 a preprofessional adviser 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
MVSC 251—Human Physiological Anatomy I ^{cd}	5
MVSC 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	3
One course in anthropology or sociology	3
Total Hours—Pre-Occupational Therapy	34

^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 MVSC 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, Graduate Record Examination (GRE) score of at least 1000 combined verbal and quanti-

tative 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 a preprofessional adviser to plan a course of study that fulfills the pre-physical therapy studies requirements as well as the requirements for the major.

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 ^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
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:	
PSCH 270—Abnormal Psychology (3) ^d	3
PSCH 320—Developmental Psychology (3)	
MVSC 251—Human Physiological Anatomy I ^e	5
MVSC 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 MVSC 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.

Pre-Veterinary Medicine

Pre-veterinary medicine students may choose any major, but should work with a preprofessional adviser 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. A recommended program of 78–83 semester hours, exclusive of physical education and basic military science, 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
MATH 180—Calculus I (Recommended) ^b	5

Pre-Health Information Management, Pre-Human Nutrition, Pre-Nursing, 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-Human Nutrition	60	College of Applied Health Sciences	BS in Human Nutrition
Pre-Nursing	57	College of Nursing	BS in Nursing
Pre-Pharmacy	72	College of Pharmacy	Doctor of Pharmacy

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/departments 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 adviser 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 scheduling an appointment with an LAS preprofessional adviser in 309 University Hall.

The list of courses above includes the minimum courses required 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.

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-human 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
MVSC 251—Human Physiological Anatomy I ^c	5
MVSC 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 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 MVSC 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-Human Nutrition

The Department of Human 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 Human Nutrition program offered in the College of Applied Health Sciences. If admitted to the Coordinated Program, the student will complete six additional semesters of undergraduate study to obtain the bachelor's degree. If admitted to the Nutrition Science program, the student will complete four additional semesters (based on full-time status) to obtain the bachelor's degree.

Please see the Department of Human Nutrition section of the catalog for more information about each concentration or visit the Web site <http://www.ahs.uic.edu/hn/>.

Sixty semester hours, exclusive of basic military science, distributed as follows:

Pre-Human Nutrition 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
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 130—Survey of Organic and Biochemistry ^d	5
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	2
Electives	4
Total Hours—Pre-Human Nutrition Course Requirements	60

^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 of 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 CHEM 130 as a prerequisite for these courses. See CHEM 130 course description for more details.

^f Completion of MATH 121 may be satisfied through placement exam or CLEP.

The minimum GPA for application to the two programs in Human Nutrition is 2.50/4.00. However, the average GPA for students admitted to the Coordinated Program is higher (currently 3.00). Students should contact the Department of Human Nutrition for admission deadlines <http://www.ahs.uic.edu/hn/>.

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
MVSC 251—Human Physiological Anatomy I ^c	5
MVSC 252—Human Physiological Anatomy II ^c	5
NUSC 250—Human Development across the Life Span	3
HN 196—Nutrition	2
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 (anatomy, physiology, and microbiology do not fulfill this requirement)	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 MVSC 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.

The minimum GPA for application to the program in nursing is 2.50/4.00. A minimum grade of C must be earned in each pre-nursing course. The College of Nursing accepts applications for the fall semester only. Applications are available beginning September 1. The priority application deadline is October 15, and the final application deadline is January 15.

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
MVSC 251—Human Physiological Anatomy I ^e	5
MVSC 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) ^d	
MATH 180—Calculus I (5) ^d	
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 MVSC 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 adviser 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 minimum GPAs (cumulative, science/math, pre-pharmacy) for application to the program in pharmacy are 2.50/4.00. 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 only. Applications are available in June. The PharmCAS application deadline is December 1 and 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 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 adviser in the College of Education for information on additional courses necessary for admission to the Elementary Education program.

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

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 adviser 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) ^{ab}	
CHEM 116—Honors General College Chemistry I (5) ^{ab}	
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 adviser 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 adviser 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 210, 310, 313
- SOC 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 (12 hours in a single language or equivalent)	12
Quantitative Reasoning course	3
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	15
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 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.

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.

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 adviser's office. All students with pre-law interests are encouraged to see the pre-law adviser 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 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 adviser 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 adviser 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: (312) 996-7808

Student Services: Office of Academic Programs, NURS,
(312) 996-3566

Academic Advising: (312) 996-6045

Departments: Maternal-Child Nursing, Medical-Surgical
Nursing, Public Health, Mental Health, and
Administrative Nursing

Introduction

The College of Nursing is recognized as one of the top ten 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 leaders in tomorrow's 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 Health Informatics, and a Master of Public Health; and the Doctor of Philosophy in Nursing Sciences 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 only option not currently available is Perinatal Clinical Nurse Specialist). The generic BSN curriculum is offered at the Chicago and Urbana-Champaign campuses. Programs for the registered nurse to earn a BSN are offered online at Chicago, Urbana-Champaign, and the Quad Cities. In addition to the graduate programs offered at the Chicago campus, master's programs and the Doctor of Nursing Practice are offered at the Quad-Cities, Peoria, Rockford, and the Urbana-Champaign campuses.

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 college has two paths leading to the Bachelor of Science in Nursing: (1) the generic plan that provides students the basic nursing preparation and eligibility to apply for the registered nursing licensing examination (NCLEX-RN); and (2) the RN/BSN plan that provides advanced placement for students who are registered nurses seeking a BSN.

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.

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	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
MVSC 251—Human Physiological Anatomy I	5
MVSC 252—Human Physiological Anatomy II	5
NUSC 250—Human Development across the Life Span	3
HN 196—Nutrition	2
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 (anatomy, physiology, and microbiology do not fulfill this requirement)	3
LAS electives	Varies
Total Hours—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.

Course Requirements in the College of Nursing

Required Courses	Hours
NUSC 202—Concepts and Processes of Professional Nursing ^a	3
NUSC 210—Health Assessment	3
NUSC 215—Pathophysiology and Applied Pharmacology I ^a	4
NUSC 217—Pathophysiology and Applied Pharmacology II ^a	3
NUSC 225—Introduction to Clinical Concepts and Processes ^a	6
NUSC 242—Concepts and Processes for Contemporary Nursing Practice ^b	4
NUSC 322—Introduction to Nursing Research and Statistics for Evidence-Based Practice	4
NUSC 335—Clinical Concepts and Processes in Adult Health ^a	6
NUSC 345—Clinical Concepts and Processes in Women's and Family Health ^a	5
NUSC 355—Clinical Concepts and Processes in Children's and Family Health ^a	5
NUSC 365—Clinical Concepts and Processes in Mental Health ^a	5
NUSC 375—Concepts and Processes in Older Adult Health ^c	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
Total—Required Nursing Courses	61

^a RN/BSN Curriculum: Courses that may be validated for credit by successful completion of NLN Mobility II Profile examinations or through articulation.

^b RN/BSN Curriculum: The NLN Mobility II Profile examinations or articulation will validate only five semester hours of NUSC 225. The other semester hour of credit will be earned through successful completion of NUSC 242. Validation of clinical competency is achieved by completing NUSC 210. Note that only RN/BSN students take NUSC 242.

^c RN/BSN Curriculum: NUSC 375 is not required but can be taken to fulfill three semester hours of the nursing elective requirement.

Nursing Electives/Selectives	Hours
Minimum requirement of 2 hours (5 hours for RN/BSN students) of nursing electives/selectives chosen from 300- or 400-level nursing courses selected with an adviser.	2–5
Total—Nursing Electives/Selectives	2–5

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.

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 *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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.

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>.

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; 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.

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.
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

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of week 1 for summer semester. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer semester) students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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 must meet with an academic adviser or the associate dean for nursing clinical practice studies in the Office of Academic Programs on the first floor of the College of Nursing.

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.

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 director of academic programs for exceptions to certain college regulations, but should do so only after consulting with their adviser, 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 advisement policy. Students must meet with their adviser each semester to discuss their program plan and to obtain permission to register.

Repeating a Course

A student may repeat only once a nursing course or its equivalent. 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.

If a student repeats a course for which credit was earned, the original credit is forfeited, but both grades will be included in the cumulative grade point average and will remain on the student's permanent record.

Transferring

Students are admitted to the College of Nursing each fall semester. Applications are available beginning July 1. Priority application deadline is October 15 and the final application deadline is January 15. All decisions are communicated in writing. No decisions will be given over the phone.

Intercollege Transfer Students

For application information, students currently enrolled in another college at UIC should contact the College of Nursing at (312) 996-6045.

Transfer Students from Other Colleges and Universities

The College of Nursing admits qualified junior-level transfer students from accredited institutions. Transfer student applicants are required to have a 2.50/4.00 cumulative transfer grade point average and a 2.00/4.00 natural science grade point average for admission, in addition to satisfying all other UIC transfer admission criteria. All required course work must have a grade of C or higher.

RN/BSN Admission

RN/BSN applicants are required to meet the transfer student admission requirements: 2.50/4.00 minimum cumulative GPA, a 2.00/4.00 natural science GPA, and completion of the required prerequisite LAS courses.

The didactic portion of the curriculum is offered online by the faculty at the Quad Cities campus. Practicum is individually arranged through the course coordinator. Students have the option to attend full time or part time. The length of the program will be determined by the number of courses successfully validated through the National League for Nursing (NLN) Mobility II Profile exams or articulation and the number of nursing courses taken each semester after enrollment.

The College of Nursing participates in the Illinois Articulation Initiative and has articulation agreements with several community colleges. Check the Illinois Articulation Initiative Web site <http://www.itransfer.org/IAI/FACT/> for a list of approved schools. Students who apply within five years of graduation from one of these programs, meet all other college and University admission requirements and are admitted, are not required to complete the National League for Nursing (NLN) Mobility II Profile examinations. Thirty-three hours of credit are awarded after successful completion of the courses NUSC 242—Concepts and Processes for Contemporary Nursing Practice and NUSC 210—Health Assessment.

Students must have an active RN license for admission. When the student applies for admission directly from a nonbaccalaureate nursing program, he or she 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.

Requirements for All Students

Accommodation. Students requesting accommodation for disabilities should make the request in writing using the "Request for Accommodation" form available from the Disability Resource Center, 1190 SSB, (312) 413-2183. That office will evaluate the student's request and make recommendations to the College of Nursing. The College of Nursing 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 anytime 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. Prior to enrolling in NUSC 225—Clinical Nursing I: Clinical Concepts students must hold current CPR certification. Contact the American Red Cross (Basic Life Support), American Heart Association ("C" level course), local park district, fire department, or hospital for available courses. CPR Certification must be updated yearly throughout the educational program. Students who do not provide this document will not be allowed to participate in the clinical experience.

Immunization. Students must complete Parts I, II, and III on the University of Illinois Medical Immunization form and Part IV of the College of Nursing Immunization Report. Documentation of current immunizations for measles, mumps, rubella, polio, diphtheria/tetanus, and hepatitis B and evidence of chicken pox immunity status, including titers, are required. ANNUAL TESTING FOR TUBERCULOSIS IS REQUIRED. Students should retain a copy of their immunization record and make it available for verification at the first day of class for each clinical course. Students are required to keep current all immunizations throughout their enrollment.

Word Processing Skills. Each student admitted to the College of Nursing, prior to the beginning of the program, must provide documentation of skills in basic word processing. Compliance with the requirement can be demonstrated with a transcript-documented high school or community college course, or a copy of a certificate of completion of a basic computer skills/word processing course.

Transportation. Each student is responsible for his or her own transportation to all clinical sites. These clinical 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 adviser 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

Generic BSN Plan

Junior Year

Fall Semester	Hours
NUSC 202—Concepts and Processes in 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

Two hours of nursing electives and the liberal arts and sciences requirements must also be completed. Full- and part-time study is available each semester, including the summer session.

RN/BSN Completion Plan

Course	Hours
NUSC 242—Concepts and Processes for Contemporary Nursing Practice	4
NUSC 210—Health Assessment	3
NUSC 322—Introduction to Nursing Research and Statistics for Evidence-Based Practice	4
Nursing elective	3
Total Hours	14

Course	Hours
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 elective	2
Total Hours	16

College of Pharmacy

Interim Dean, Jerry L. Bauman
145 College of Pharmacy (PHARM)
(312) 996-7242
pharmosa@uic.edu
<http://www.uic.edu/pharmacy/>

Administration:

Associate Dean for Academic Affairs, Janet P. Engle
Assistant Dean for Academic Affairs, Susan L. Peverly
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
Acting Head, Department of Pharmacy Practice, Keith A.
Rodvold

Introduction

The oldest of the 15 colleges of the University of Illinois at Chicago, the College of Pharmacy became a part of the University in 1896. 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.

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.

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 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;

- 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);
- To provide one's own transportation to off-campus pharmacy practice experience sites;
- To be in compliance with HIPAA requirements; and
- 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,

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 all College of Pharmacy requirements, a seat in the College of Pharmacy will be reserved.

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/departments sections of the catalog for more information on fulfilling these requirements.

^b Students completing an undergraduate degree at UIC should meet with their academic adviser 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 adviser 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 2.50/4.00 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/applications>).
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 college will consider for admission students who began their education at other accredited colleges of pharmacy if they meet the requirements for admission, are in good standing with the school they have left, and accept adjustments in curricula as a result of changing schools. Such students must request a courtesy letter from the dean of their most recently attended college of pharmacy. Moreover, they must submit official transcripts from all postsecondary institutions they attended. Please see the College of Pharmacy Office of Student Affairs website for exact requirements, procedures, and deadlines for transfer admission http://www.uic.edu/pharmacy/student_affairs.

Credit and waivers from enrolling in certain courses may be awarded to students transferring from other accredited colleges of pharmacy who have already completed courses judged equivalent to comparable courses in the University of Illinois at Chicago College of Pharmacy curriculum.

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 APPE)	85
Total professional elective hours	12
Total experiential 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

Fourth Year

Requirements	Hours
Advanced Pharmacy Practice Experiences ^b	28
Total Hours	28

^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 *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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 105 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 advisers from the faculty and staff of the college by the end of their first professional year. The Office of Student Affairs staff is available for referrals and assistance. Students or their advisers 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 (ICHP); 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, Robin Hambleton

115 CUPPA Hall

(312) 413-8088

<http://www.uic.edu/cuppa/index.html>

Student Services: Associate Dean, Albert J. Schorsch, III,

(312) 996-2177

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 S. Peoria (CUPPAH)

(312) 413-2292

<http://www.uic.edu/cuppa/upa/>

Administration: Director, Valerie Werner

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 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 210, 310, 313
- SOC 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	Hours
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 (12 hours in a single language or equivalent)	12
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	15
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.

College of Urban Planning and Public Affairs Requirements

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 UPA to reach total of 39 semester hours in Urban and Public Affairs	6
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Total Hours—Required Urban and Public Affairs Courses	39
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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 twelve 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, Criminal 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 *UIC Web for Student*. The deadline for submission to the Pending Degree List is the end of the third week (fall and spring) or second week (summer) 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. During the eight-week summer session, a minimum full-time program is 6 semester hours. 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 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

Undergraduate students may drop courses using *UIC Web for Student* through the end of the second week of classes for fall and spring semesters, or through the end of week 1 for summer semester. During weeks 3 through 6 of the fall and spring semesters (weeks 2 through 5 for summer semester) students may drop courses with the permission of their major college. If the drop occurs between 0–2 weeks in fall and spring (between weeks 0–1 in summer), there will be no notation on the transcript. If the drop occurs during weeks 3 through 6 in fall and spring (weeks 2 through 5 in summer), 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 non-attendance. 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 letter 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 (fifth day for the summer session). 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.

Graduate-Level Courses for Undergraduate Students

With program approval, 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 adviser prior to registration.

Repeating a Course

Students may repeat a course in which a failing grade or a grade of D (and thus credit) has been assigned. The original credit is forfeited in the case of a D grade although both grades will be included in the cumulative grade point average and will remain on the student's permanent record. Any student planning to repeat a course a second time should see an academic adviser.

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) 413-2292 or come to the UPA program office, CUPPA Hall.

Students should consult the UPA director or other appointed academic adviser at least once during the first term in residence and at least once an academic year thereafter. The students' UPA adviser 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, advisers can explain college and program rules and requirements and can help resolve special registration problems. In conjunction with this, advisers 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 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

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 public administration	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 urban planning and policy	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	Information and Decision Sciences	IDS
Accounting	ACTG	Information Technology	IT
Administrative Studies in Nursing	NUAS	Interdisciplinary Studies in the Arts	ISA
African American Studies	AAST	Italian	ITAL
Anatomy and Cell Biology	ANAT	Japanese	JPN
Ancient Greek	GKA	Jewish Studies	JST
Anthropology	ANTH	Latin	LAT
Arabic	ARAB	Latin American and Latino Studies	LALS
Archaeological Studies	ARST	Liberal Arts and Sciences	LAS
Architecture	ARCH	Linguistics	LING
Art and Design	AD	Lithuanian	LITH
Art History	AH	Management	MGMT
Asian American Studies	ASAM	Marketing	MKTG
Asian Studies	ASST	Maternal-Child Nursing	NUMC
Associated Health Sciences	AHS	Mathematical Computer Science	MCS
Biochemistry and Molecular Genetics	BCMG	Mathematics	MATH
Bioengineering	BIOE	Mathematics Teaching	MTHT
Biological Sciences	BIOS	Mechanical Engineering	ME
Biomedical and Health Information Sciences	BHIS	Medical-Surgical Nursing	NUMS
Biopharmaceutical Sciences	BPS	Medicinal Chemistry and Pharmacognosy	PMMP
Business Administration	BA	Microbiology and Immunology	MIM
Catholic Studies	CST	Military Science	MILS
Chemical Engineering	CHE	Modern Greek	GKM
Chemistry	CHEM	Movement Sciences	MVSC
Chinese	CHIN	Moving Image Arts	MOVI
Civil and Materials Engineering	CME	Music	MUS
Classics	CL	Native American Studies	NAST
Communication	COMM	Natural Sciences	NATS
Computer Science	CS	Naval Science	NS
Criminal Justice	CRJ	Neuroscience	NEUS
Curriculum, Instruction, and Evaluation	CIE	Nursing Sciences	NUSC
Dance	DNCE	Pharmacy	PHAR
Disability and Human Development	DHD	Pharmacy Administration	PMAD
Earth and Environmental Sciences	EAES	Pharmacy Practice	PMPR
Economics	ECON	Philosophy	PHIL
Education	ED	Physics	PHYS
Educational Psychology	EPSY	Physiology and Biophysics	PHYB
Electrical and Computer Engineering	ECE	Policy Studies	PS
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	Public Health Nursing	NUPH
Geography	GEOG	Religious Studies	RELS
Germanic Studies	GER	Russian	RUSS
Guaranteed Admissions Medicine	GAMD	Slavic and Baltic Languages and Literatures	SLAV
Health Information Management	HIM	Social Sciences	SOCS
Hebrew	HEB	Sociology	SOC
Hindi-Urdu	HNUR	Spanish	SPAN
History	HIST	Special Education	SPED
Honors College Courses	HON	Statistics	STAT
Human Nutrition	HN	Theatre	THTR
Humanities	HUM	Urban and Public Affairs	UPA
Industrial Engineering	IE	Urban Planning and Policy	UPP
		Women's Health Nursing	NUWH

Academic Skills Program

ASP 050 Speaking, Reading, and Writing in English as a Second Language 3 hrs.

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 Advanced Communication Skills in English as a Second Language 3 hrs.

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 Vocabulary Enrichment in English as a Second Language 3 hrs.

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 Communication Skills for International Graduate Students 3 hrs.

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 Studying/Learning Across the Disciplines 3 hrs.

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 Topics in Learning Support Instruction 2 hrs.

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 Topics in Learning Support Instruction for LARES Students 2 TO 3 hrs.

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 Critical Reading and Thinking I—LARES 3 hrs.

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 Critical Reading and Thinking II — LARES 3 hrs.

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 Intensive Writing Workshop for LARES Students 3 hrs.

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 Critical Reading and Thinking I 3 hrs.

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 Critical Reading and Thinking II 3 hrs.

Advanced, discipline-specific reading, writing, and thinking strategies for practice in comprehending and writing about complex 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 Vocabulary Enrichment 2 hrs.

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 Academic and Professional Writing 3 hrs.

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 Independent Study 0 TO 3 hrs.

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 110 Introduction to Financial Accounting 3 hrs.

Concepts and standards underlying the preparation and analysis of external reports; alternative effects and role of accounting in the business environment and capital markets. Extensive computer use required. **Prerequisite(s):** Sophomore standing.

ACTG 111 Introduction to Managerial Accounting 3 hrs.

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. Extensive computer use required. **Prerequisite(s):** ACTG 110 and sophomore standing. Accounting majors need a grade of C or better in ACTG 110.

ACTG 315 Intermediate Financial Accounting I 3 hrs.

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. **Prerequisite(s):** Average grade of B or higher in ACTG 110 and ACTG 111, with both taken at UIC or passing grade on the Accounting Qualifying Exam (AQE). Registration for this course is only through Department of Accounting Web site: <http://accounting.cba.uic.edu>.

ACTG 316 Intermediate Financial Accounting II 3 hrs.

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 in ACTG 315.

ACTG 326
Cost Accounting 3 hrs.
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 110 and grade of C or better in ACTG 111.

ACTG 355
Business Law I: Commercial Transactions 3 hrs.
Commercial transactions including: contracts, sales of goods, negotiable instruments, and secured transactions. **Prerequisite(s):** ACTG 111 or the equivalent.

ACTG 394
Special Topics in Accounting—Undergraduate 3 hrs.
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
Independent Study in Accounting—Undergraduate 1 TO 3 hrs.
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
Advanced Financial Accounting 3 OR 4 hrs.
Financial accounting theory for business combinations, consolidated financial statements, international transactions and investments, and partnership accounting. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ACTG 316.

ACTG 435
Auditing 4 hrs.
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
Federal Income Tax I 3 OR 4 hrs.
Concepts and provisions of federal income taxation as applicable to individual taxpayers, partnerships, individuals and trusts. 3 undergraduate hours. 4 graduate hours. 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
Federal Income Tax II 3 OR 4 hrs.
Concepts and provisions of federal income taxation on corporations and partnerships; special problems in reorganization, liquidations, and personal holding companies. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** ACTG 445 or the equivalent.

ACTG 456
Business Law II: Business Organizations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ACTG 355 or the equivalent.

ACTG 465
Governmental and Nonprofit Accounting 3 OR 4 hrs.
Financial transaction analysis and recording system; budget preparation and control; concepts and principles underlying the financial reports of governmental and non-profit organizations. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ACTG 316.

ACTG 474
Accounting Information Systems 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** Grade of C or better in ACTG 110 and grade of C or better in ACTG 111; and IDS 100.

ACTG 475
Database Accounting Systems 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** ACTG 111 and IDS 100.

ACTG 484
International Accounting 3 OR 4 hrs.
Financial accounting for international operations, multinational managerial accounting and control, comparative international accounting, international reporting issues, and international taxation. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ACTG 316.

ACTG 485
Valuation and Analysis 3 OR 4 hrs.
Financial analysis and valuation of firms. Corporate strategies, financial reporting issues, and market perceptions. 3 undergraduate hours. 4 graduate hours. 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
Special Topics in Accounting 1 TO 4 hrs.
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 111 and FIN 300 or the equivalent.

ACTG 495
Competitive Strategy 4 hrs.
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
Introduction to African American Studies 3 hrs.
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 US Society course.*

AAST 103
African American Politics and Culture 3 hrs.
A survey of African American political and cultural activism from the Black Convention Movement of the 1830s to contemporary times. **Same as** POLS 112.
• *Individual and Society, and US Society course.*

AAST 104
Race, Place, and Schooling: African Americans and Education 3 hrs.
This course will examine the social, political, cultural, and economic factors shaping African Americans' educational experiences in the United States, historically and currently. **Same as** PS 104.
• *Individual and Society, and US Society course.*

AAST 105
African Americans in Film, 1900–Present: Images, Individuals and Ideas on Screen 3 hrs.
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 US Society course.*

AAST 110
Introduction to African American Literature, 1760-1910 3 hrs.
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
Introduction to African American Literature since 1910 3 hrs.
Comprehensive survey of African American literature from 1910 to the present. **Same as** ENGL 119.
• *Creative Arts, and US Society course.*

AAST 120
African American Religious Traditions 3 hrs.
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 US Society course.*

AAST 141
African Civilization 3 hrs.
Introduction to history and historical methods through the study of African history. **Same as** HIST 141.
• *Past, and World Cultures course.*

AAST 191
African and Caribbean Francophone Literature in Translation 3 hrs.
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
History of Race Relations in America 3 hrs.
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
The Psychology of African Americans 3 hrs.
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 US Society course.*

AAST 202
African American Behavioral Patterns 3 hrs.
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 US Society course.*

AAST 203
The African American Family in the United States 3 hrs.
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 US Society course.*

AAST 206
Interdisciplinary Research Methods in African American Studies 3 hrs.
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
The Art and Archaeology of Ancient Egypt 3 hrs.
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
Techniques of African American Creative Writing 3 hrs.
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
Racial and Ethnic Groups 3 hrs.
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 US Society course.*

AAST 229
Africa and its Diasporas 3 hrs.
This course on the African diaspora critically analyzes 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
Pre-Colonial Africa 3 hrs.
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
Modern Africa 3 hrs.
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
Politics and Government of Africa 3 hrs.
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
African American History to 1877 3 hrs.
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 US Society course.*

AAST 248
African American History since 1877 3 hrs.
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 US Society course.*

AAST 249
Black Freedom Movements in the U.S. 3 hrs.
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 US Society course.*

AAST 250
Comparative Black Literatures 3 hrs.
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 US Society course.*

AAST 251
African Americans and the Law to 1954 3 hrs.
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 US Society course.*

AAST 252
African Americans and the Law, since 1954 3 hrs.
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 US Society course.*

AAST 258
Race and Urban Life 3 hrs.
Examines the experiences of Blacks in urban areas since the 1900s. **Same as** SOC 258.

AAST 261
Reading Black Women Writing 3 hrs.

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
Black Cultural Studies 3 hrs.

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 US Society course.*

AAST 263
African American Intellectual History 3 hrs.

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
African American Art 3 hrs.

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
The Harlem Renaissance 3 hrs.

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 ENGL 240 and grade of C or better in ENGL 243; or consent of the instructor.
• *Past, and US Society course.*

AAST 270
African Art 3 hrs.

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
African Americans and the Politics of Incarceration 3 hrs.

Examination of the status of African Americans as offenders, victims, and personnel within the criminal justice system. **Same as** CRJ 271 and SOC 271.

Previously listed as AAST 371.
Prerequisite(s): AAST 100 or CRJ 101 or SOC 100; or consent of the instructor.
• *Individual and Society, and US Society course.*

AAST 272
Race, Gender, and Sexuality 3 hrs.

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 US Society course.*

AAST 294
Topics in African American Studies 3 hrs.

Selected topics. May be repeated to a maximum of 6 hours.

Students may register in more than one section per term.
Prerequisite(s): Junior standing, or consent of the instructor.

AAST 306
Black Politics in the United States 3 hrs.

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
Advanced Interdisciplinary Seminar in African American Studies 3 hrs.

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
Topics in Black Art and Literature 3 hrs.

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
Constitutional Law: Women, Gender, and Privacy 3 hrs.

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
Senior Seminar in African American Studies 3 hrs.

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
Independent Study: Special Topics 3 hrs.

Selected topics for individual research. May be repeated to a maximum of 9 hours.
Prerequisite(s): Consent of the instructor and approval of the head of the department of African American studies.

AAST 405
Urban Ethnography 3 OR 4 hrs.

The study of processes and meanings in African American communities in urban areas, interviews, participant observation, focus groups. **Same as** SOC 406. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): AAST 100; and junior standing or above.

AAST 406
Politics of Race, Gender, and Class 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** AAST 100 or GWS 102 or GWS 101; or graduate or professional standing; or consent of the instructor.

AAST 407
Seminar in Comparative Racialization 3 OR 4 hrs.

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
Seminar in Black Child Development 3 OR 4 hrs.

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 hours. 4 graduate hours.
Prerequisite(s): AAST 201 or PSCH 100 or consent of instructor.

AAST 441
Topics in African History 3 OR 4 hrs.

Specific topics are announced each term. **Same as** HIST 441. 3 undergraduate hours. 4 graduate hours. May be repeated.

Prerequisite(s): 3 hours of African history, African American Studies, or consent of the instructor.

AAST 445
History of Islam in the African World 3 OR 4 hrs.

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 hours. 4 graduate hours.

Prerequisite(s): Consent of the instructor.

AAST 481
Topics in African and African American History 3 OR 4 hrs.

African and/or African American history for students with significant background in the field. Topics vary. **Same as** HIST 485. 3 undergraduate hours. 4 graduate hours. 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**Topics in African American Literature** 3 OR 4 hrs.

African American literature and culture for students with significant background in the field. Topics vary. **Same as** ENGL 473. 3 undergraduate hours. 4 graduate hours. 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**Topics in Social Science Research** 3 OR 4 hrs.

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 hours. 4 graduate hours. 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**Topics in Race, Ethnic and Minority History** 3 OR 4 hrs.

Specific topics are announced each term. **Same as** HIST 496. 3 undergraduate hours. 4 graduate hours. May be repeated. **Prerequisite(s):** 3 hours of history or consent of the instructor.

Anatomy and Cell Biology**ANAT 315**
Anatomy I 4 hrs.

Structural and functional anatomy of the human head, neck and orofacial complex.

ANAT 316**Anatomy II** 1 hr.

Introduction to the structural and functional systems biology of the human body. **Prerequisite(s):** ANAT 315.

ANAT 414**Neuroanatomy for Allied Health Program** 3 hrs.

Basic development and gross features of the central nervous system and systems neuroanatomy; motor, sensory and integrative functional areas.

Ancient Greek**GKA 101**
Elementary Ancient Greek I 4 hrs.

The fundamentals of ancient classical Greek, including the reading of simple prose.

GKA 102**Elementary Ancient Greek II** 4 hrs.

Continues GKA 101. Grammar and reading. **Prerequisite(s):** GKA 101.

GKA 103**Intermediate Ancient Greek I** 4 hrs.

Introduction to Greek philosophers and historians. Selections from Plato, Thucydides, Demosthenes, and other Attic prose writers. **Prerequisite(s):** GKA 102.

GKA 104**Intermediate Ancient Greek II** 4 hrs.

Introduction to Greek epic and tragedy. Readings from Homer and Euripides. **Prerequisite(s):** GKA 103.

GKA 299**Independent Reading** 3 hrs.

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**Advanced Topics in Ancient Greek Literature** 3 OR 4 hrs.

Intensive reading of ancient Greek literature. Topics vary. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 9 hours. 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**Independent Reading** 3 OR 4 hrs.

Individual study under faculty direction. For students qualified by preparation and interest. 3 undergraduate hours. 4 graduate hours. 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**
The Human Adventure 3 hrs.

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**World Cultures: Introduction to Social Anthropology** 3 hrs.

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**Introduction to Archaeology** 3 hrs.

General survey of world archaeology with special reference to origins and development of Old World cultures. • *Past, and World Cultures course.*

ANTH 105**Human Evolution** 5 hrs.

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**Cybernetic Systems** 3 hrs.

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**Anthropological Theory** 3 hrs.

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**Cybernetic Thinking** 3 hrs.

The logic of cybernetic concepts: stability, change, hierarchy, coupling, feedback, variety, regulation, and their applications to living, social, and cultural systems.

ANTH 211**Visual Anthropology** 3 hrs.

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**Folklore** 3 hrs.

Surveying the major folklore genres: proverbs, riddles, games, folksong, and the folk tale; their forms and how people use them.

ANTH 214**Sex and Gender in World Cultures** 3 hrs.

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**Non-Western Religions** 3 hrs.

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 220**Method and Theory in Archaeology** 3 hrs.

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**Old World Archaeology I** 3 hrs.

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**Hunter-Gatherers, Farmers, and Herders** 3 hrs.

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
Archaeology of North America 3 hrs.
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
Ancient Civilizations of Mexico and Central America 3 hrs.
Analysis and interpretation of the archaeological evidence on the process of development of native civilization in the Meso-American 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
Ancient Civilizations of South America 3 hrs.
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 231
Fossil Humans 4 hrs.
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. **Same as** BIOS 210.

ANTH 234
Modern Human Variation and Adaptation 4 hrs.
A broad overview of genetic variation and biosocial adaptation in contemporary human groups. **Prerequisite(s):** Grade of C or better in ANTH 105.

ANTH 235
Biological Bases and Evolution of Human Behavior 4 hrs.
Comparative behavior of human and nonhuman primates; biological bases of primate behavior in terms of general evolutionary trends. **Same as** BIOS 211.

ANTH 237
The Human Skeleton 4 hrs.
Examination of the human skeleton, emphasizing bone identification and the functional anatomy of locomotion and dentition. **Same as** BIOS 212.

ANTH 238
Biology of Women 3 hrs.
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 241
Culture and Personality 3 hrs.
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
European-Indigenous Interaction in Latin America 3 hrs.
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
Art and Archaeology of South America 3 hrs.
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
The First Americans 3 hrs.
An introduction to the aboriginal Indian cultures of native North America, their ecological adaptations, social organization, and world views.
• *Individual and Society, and US Society course.*

ANTH 271
American Indian Religion and Philosophy 3 hrs.
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 US Society course.*

ANTH 272
North American Indians 3 hrs.
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
Ethnography of Southeast Asia 3 hrs.
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
Ethnography of Africa 3 hrs.
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
South American Indians 3 hrs.
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
Pacific Island Cultures 3 hrs.
Polynesian, Micronesian, and Melanesian island societies; their ecosystems and cultures, emphasizing their unity and diversity.

ANTH 277
Ethnography of Meso-America 3 hrs.
Survey of the contemporary indigenous cultures of Meso-America, studied against their pre-conquest history, and in their development since the Spanish Conquest. **Same as** LALS 270.
• *Individual and Society, and World Cultures course.*

ANTH 278
Brazil: A Multi-Ethnic Society 3 hrs.
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
South Asian Cultures and Societies 3 hrs.
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
China and Japan: Society and Culture 3 hrs.
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
Ethnography of North Africa and the Middle East 3 hrs.
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
Writing Culture 3 hrs.
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
An Introduction to the Anthropology of the Body 3 hrs.
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
The Anthropology of Consumption 3 hrs.
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
Cross-Cultural and Historical Perspectives of Youth Culture 3 hrs.

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
Language, Culture and Society 3 hrs.

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 English composition requirement; and junior standing or above; or consent of the instructor.

ANTH 320
Topics in Archaeology 3 hrs.

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
Prehistory of the Near East 3 hrs.

Consideration of Southwestern Asia as the core area for the development of Homo sapiens and the emergence of the earliest civilizations.

ANTH 330
Primate Evolution 4 hrs.

Paleontology and systematics of fossil primates, emphasizing the adaptive radiations of the major living groups. **Same as BIOS 313.**

ANTH 335
Topics in Physical Anthropology 3 hrs.

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 hours. Students may register in more than one section per term. **Prerequisite(s):** ANTH 105 and one 200-level course in physical anthropology.

ANTH 390
Honors Research 3 hrs.

Individual study or research projects for students seeking departmental distinction. May be repeated to a maximum of 6 hours. 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
Topics in Anthropology 3 hrs.

Reading, study, and discussion of selected problems in anthropology. May be repeated to a maximum of 9 hours. Students may register in more than one section per term. **Prerequisite(s):** ANTH 101 or consent of the instructor.

ANTH 401
Linguistic Anthropology 3 OR 4 hrs.

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 hours. 4 graduate hours.

ANTH 405
Human Growth and Nutrition 3 hrs.

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
Ancient Maya Writing, Language, and Culture 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

ANTH 411
Urban Cultural Problems 3 OR 4 hrs.

A study of the processes of urbanization, and of cultural and social adjustments to the city; illustrated by case studies. 3 undergraduate hours. 4 graduate hours.

ANTH 413
Social Organization 3 OR 4 hrs.

Theory and method in the study of kinship and social organization, for advanced undergraduate and graduate students. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ANTH 213 or graduate standing or consent of the instructor.

ANTH 414
Symbolic Anthropology 3 OR 4 hrs.

The interpretation of cultures through their ritual, religions, culture, and other types of symbolism. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ANTH 101 or consent of the instructor.

ANTH 415
Medical Anthropology 3 OR 4 hrs.

Survey of the history of non-Western medicine; analysis of ecological relationships behind folk medicine; principles and methods of studying ethnomedicine. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ANTH 200 or consent of the instructor.

ANTH 417
Marxist Approaches to Anthropology 3 OR 4 hrs.

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 hours. 4 graduate hours.

ANTH 418
Ethnographic and Qualitative Research Methods 3 OR 4 hrs.

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 GEOG 418.** 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Junior standing or above.

ANTH 420
Seminar in Archaeology and Ethnography 3 OR 4 hrs.

Case studies of investigations in archaeology using research monographs and other primary sources. Substantive data and related theoretical problems are examined simultaneously. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 15 hours. **Prerequisite(s):** Junior standing or consent of the instructor.

ANTH 421
Geomorphology and Archaeology 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** GEOG 131 or EAES 101 or consent of the instructor.

ANTH 422
Prehistory of the Levant and the Nile Valley 3 OR 4 hrs.

Detailed analysis of Levantine and Nile Valley prehistory during the Pleistocene and early Holocene. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ANTH 221 or ANTH 222 or consent of the instructor.

ANTH 423
Andean Prehistory 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 228 or ANTH 269; or consent of the instructor.

ANTH 424
Violence 3 OR 4 hrs.

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 CRJ 423.** 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CRJ 101 and CRJ 200.

ANTH 425
Field Techniques in Archaeology 4 hrs.

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 hours. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 426 or GEOG 426.

ANTH 426
Laboratory Techniques in Archaeology 4 hrs.
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 hours. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 425 or GEOG 425.

ANTH 427
Theory and Application in Ethno-archaeology 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** One 100- or 200-level archaeology course; or graduate standing and consent of the instructor.

ANTH 428
Chiefdoms 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 101 or ANTH 102; or consent of the instructor.

ANTH 429
Archaeological Methods 3 OR 4 hrs.
This course will familiarize students with various methodologies used by archaeologists and geo-archaeologists. Course will concentrate on a different method each time it is taught. Course information: **Same as** GEOG 429. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). Students may register for more than one section per term.

ANTH 430
Seminar in Primate Biology 4 OR 5 hrs.
Theoretical and substantive issues in the study of nonhuman primates and hominids, as represented in current journals and topical volumes. 4 undergraduate hours. 5 graduate hours. May be repeated up to 2 time(s). Students may register for more than one section per term.

ANTH 437
Bioarchaeology 5 hrs.
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 440
The Experience of Culture Difference: Culture Shock 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** One course in social or cultural anthropology, or experience in another culture.

ANTH 441
Psychoanalytic Anthropology I: Cross-Cultural Theory 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** One course in anthropology or psychology; or consent of the instructor.

ANTH 442
Psychoanalytic Anthropology II: Cross-Cultural Applications 3 OR 4 hrs.
Explores ways in which anthropologists and analysts have used psychoanalysis to understand individuals, practices and institutions of other cultures. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ANTH 441 or consent of the instructor.

ANTH 443
Leadership: Psychology, Strategy, Culture 3 OR 4 hrs.
Psychological and anthropological theories of leadership developed on our culture will be tested against descriptions of leadership in diverse non-Western societies. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** One course in anthropology.

ANTH 444
Dreams, Dreaming, and Dream Beliefs 3 OR 4 hrs.
The dreaming experience examined from the point of view of psychological interpretation, laboratory experiments, and anthropological study of dreams in other cultures. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** One course in anthropology or psychology and junior or senior standing, or consent of the instructor.

ANTH 445
Structuralism in Anthropology 3 OR 4 hrs.
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 hours. 4 graduate hours.

ANTH 453
Seminar in Cultural Ecology 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 101 or GEOG 151 or consent of the instructor.

ANTH 455
Quantitative Methods 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

ANTH 470
Classic Ethnographies 3 OR 4 hrs.
Analysis of method and theory reflected in selected classic anthropological works, studied in their historical contexts and contemporary uses. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ANTH 101 or ANTH 213 or consent of the instructor.

ANTH 474
Urban Cultures of Africa 3 OR 4 hrs.
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 hours. 4 graduate hours.

ANTH 475
Indians of the Andes and the Amazon 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 213 or consent of the instructor.

ANTH 476
Rise and Fall of the Inca Empire 3 hrs.
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
Remote Sensing of the Environment 4 hrs.
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 479
Culture and Colonialism in South Asia 3 OR 4 hrs.
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 hours. 4 graduate hours.

ANTH 480
Sociolinguistics 3 OR 4 hrs.
Variations in language that correlate with variation in societies and smaller social groups; interactions of languages and societies. **Same as** LING 480. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** LING 405 or junior standing and consent of the instructor.

ANTH 481
Geographic Information Systems I 4 hrs.
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
Geographic Information Systems II 4 hrs.
Application of raster (or grid) based geographic information systems to the spatial analysis of landscapes. **Same as** GEOG 482.

ANTH 483
Geographic Information Systems III 4 hrs.
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** GEOG 483. **Prerequisite(s):** GEOG 482 or ANTH 482 or consent of the instructor.

ANTH 484
Mapping with Microcomputers 4 hrs.
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
Computer Cartography 4 hrs.
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
Independent Study 1 TO 6 hrs.
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
Special Topics in Anthropology 3 OR 4 hrs.
Reading, study, and discussion of selected problems for graduate students and majors in anthropology. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** Junior standing or approval of the department.

ANTH 496
Internship 1 TO 4 hrs.
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 hours. 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 adviser, head of the department, or the director of internship programs.

Arabic
ARAB 101
Elementary Arabic I 4 hrs.
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
Elementary Arabic II 4 hrs.
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
Intermediate Arabic I 4 hrs.
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
Intermediate Arabic II 4 hrs.
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
Intensive Elementary Arabic 8 hrs.
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
Intensive Intermediate Arabic 8 hrs.
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
Advanced Literary Arabic 4 hrs.
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
Qur'an/Advanced Literary Arabic 4 hrs.
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
Arabic Literature in Translation 3 hrs.
Introduces students to the genres and themes of classical and modern Arabic literature in translation. Taught in English. • *World Cultures* course.

ARAB 299
Independent Reading 1 TO 3 hrs.
Individually planned readings on selected topics under faculty supervision. May be repeated to a maximum of 3 hours. Taught in English. **Prerequisite(s):** Consent of the instructor.

Archaeological Studies
ARST 209
The Art and Archaeology of the Ancient Near East 3 hrs.
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
The Art and Archaeology of Ancient Egypt 3 hrs.
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
Design Foundations: Visual Studies 4 hrs.
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
Design Foundations: Physical Studies 4 hrs.
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
Introduction to Architecture I and II 6 hrs.
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. **Prerequisite(s):** Approval of the school. For students transferring into the Bachelor of Arts in Architectural Studies Program from other institutions and qualifying UIC students changing majors. To be properly registered, students must enroll in one Lecture and one Laboratory.

ARCH 205
Building Design I 4 hrs.
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 106 and approval of the department.

ARCH 206
Building Design II 4 hrs.
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
Architectural Analysis 3 hrs.
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
Beginnings of Modern Architectural Theory 3 hrs.
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
Architecture Seminar 1 TO 6 hrs.
Current problems. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Consent of the instructor.

ARCH 332
Architecture Reading Course 1 TO 6 hrs.
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 hours.
Prerequisite(s): Consent of the instructor.

ARCH 359
Introduction to Building Science I: Ethics in Building 4 hrs.
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 Arts in Architectural Studies program or approval of the school. Requires concurrent registration in ARCH 365.

ARCH 360
Introduction to Building Science II: Technics in Building 4 hrs.
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
Building Design Studio III 6 hrs.
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):** ARCH 206 and approval of the department.

ARCH 366
Building Design Studio IV 6 hrs.
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
Design and the Environment 3 hrs.
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.
Prerequisite(s): ARCH 252.

ARCH 372
Design and the City 3 hrs.
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
Architectural Study Abroad 0 TO 17 hrs.
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 hours. **Prerequisite(s):** A 2.50 cumulative grade point average in architecture and approval of the school.

ARCH 395
Cooperative Education 1 hr.
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 hours. Fieldwork required.
Prerequisite(s): Consent of the instructor. Restricted to students with third- or fourth-year standing in the BA in Architectural Studies program.

ARCH 399
Architecture Elective I 3 hrs.
Special topics in theory, design, building science, technology, or graphic skills. May be repeated to a maximum of 12 hours. Students may register in more than one section per term.
Prerequisite(s): Approval of the school.

ARCH 412
Women and the Environment 3 OR 4 hrs.
Women's place in the built environment; the role of gender in environmental experience including women as users, designers, planners, policy makers, and critics. **Same as** GWS 412. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): Advanced undergraduate or graduate standing, or consent of the instructor.

ARCH 414
Professional Practices 3 hrs.
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
Professional Practice I 2 hrs.
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
Professional Practice II 2 hrs.
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
Capstone Studio 6 hrs.

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): ARCH 360 and ARCH 366 and ARCH 372 and junior standing or above and approval of the department.

ARCH 466
Option Studio 6 hrs.

Topic options studio that culminates B. Arts studio sequent 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
Structures I: Statics 4 hrs.

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
Structures II 3 hrs.

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
Urban Ecologies and Infrastructures 4 hrs.

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 Arts in Architectural Studies program, consent of the instructor.

ARCH 499
Architecture Elective II 2 TO 6 hrs.

Special problems in theory, design, building science, or graphic skills (manual or automated). May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** Completion of architecture graduate course work; or consent of the instructor.

Art and Design**AD 102**
Drawing I: Beginning 4 hrs.

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
Graphic Design I 4 hrs.

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
Industrial Design I 4 hrs.

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
Sculpture I: Beginning 4 hrs.

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
Photography I 4 hrs.

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
Introduction to Time-Based Visual Arts 4 hrs.

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
Topics in Drawing Studio I 4 hrs.

Drawing for art majors: 2-D and 3-D process course focused on conceptual/contextual drawing, integration of technology and mediated images. Topics emphasis 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
Introduction to Computer Graphics 4 hrs.

Introduction to the micro-computer 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
Intermediate Computer Graphics 4 hrs.

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
Color Theory 4 hrs.

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
Graphic Design II 4 hrs.

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
Graphic Design III 4 hrs.

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
Typography I 4 hrs.

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
Industrial Design II 4 hrs.

First of two skill-based courses that teach 2D/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
Industrial Design III 4 hrs.

Second of two skill-based courses that teach 2D/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
Drawing for Designers 4 hrs.

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
Painting I 4 hrs.
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
Topics in Seriality and Replication 4 hrs.
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 hours. **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
Color Photography 4 hrs.
Processes, techniques, materials, and esthetics 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
View Camera and Lighting Studio 4 hrs.
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
Methods and Techniques of Digital Photography 4 hrs.
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
Methods and Techniques of Analog Photography 4 hrs.
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
16mm Film Production I 4 hrs.
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
Motion Graphics I 4 hrs.
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
Writing for Moving Image 4 hrs.
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
Audio 4 hrs.
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
Moving Image I 4 hrs.
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
Foundations of Art Education 4 hrs.
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
Interdisciplinary Seminar I 4 hrs.
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
Advanced Topics in Drawing 4 hrs.
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 hours. **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
Electronic Visualization I 4 hrs.
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
Special Topics in Art and Design 4 hrs.
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
Electronic Visualization II 4 hrs.
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
3-D Modeling: Alias 4 hrs.
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
Advanced 3-D Modeling/Animation 4 hrs.
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
Graphic Design IV 4 hrs.
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
Graphic Design V 4 hrs.
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
Digital Media in Graphic Design 4 hrs.
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
Typography II 4 hrs.
Experimental typography. **Prerequisite(s):** AD 219 and AD 314.

AD 320
Industrial Design IV 4 hrs.
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
Industrial Design V 4 hrs.
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
Interactive Product Design I 4 hrs.
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
Industrial Design Materials and Methods 4 hrs.
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
Topics in Painting 4 hrs.
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 hours. 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
Topics in Sculpture 4 hrs.
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 hours. 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
Advanced Projects in Digital Media 4 hrs.
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 hours. 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
Documentary Media 4 hrs.
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
16mm Film Production II 4 hrs.
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
Motion Graphics II 4 hrs.
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
Moving Image II 4 hrs.
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
Art Education Practicum 4 hrs.
Experience in classroom teaching and curriculum design, connecting practices of contemporary artmaking 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
Interdisciplinary Seminar II 4 hrs.
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
Foreign Studies in Art and Design 1 TO 16 hrs.
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
Smart Art: Physical Computing 0 TO 5 hrs.
A practical and conceptual exploration into electronic sensors, processors, and effectors as applied to interactive media and interaction design. 4 undergraduate hours. 5 graduate hours. 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
Advanced Special Topics in Art and Design 0 TO 5 hrs.
Intensive workshops in specific art and design related topics and techniques directed and announced by the instructor. 1 to 4 undergraduate hours. 2 to 5 graduate hours. May be repeated. **Prerequisite(s):** Junior or graduate standing, and consent of the instructor.

AD 407
Virtual Reality I 0 TO 5 hrs.
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 hours. 5 graduate hours. 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
Virtual Reality II 0 TO 5 hrs.
Advanced concepts and methods in interactive media and virtual reality production for art and design. Programming for customized software tool development. 4 undergraduate hours. 5 graduate hours. 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
Electronic Visualization: Senior Project 0 TO 5 hrs.
A practical and conceptual exploration into the production of a public interactive media event. 4 undergraduate hours. 5 graduate hours. 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
Advanced Special Topics in Graphic Design 1 TO 5 hrs.
Intensive workshops in specific graphic design related topics and techniques directed and announced by the instructor. 1 to 4 undergraduate hours. 2 to 5 graduate hours. 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.

AD 411
Graphic Design Professional Practice 0 TO 5 hrs.
Design projects with real-world clients in the private or public sector. The designer/client relationship. 4 undergraduate hours. 5 graduate hours. **Prerequisite(s):** AD 315 and AD 317; and senior standing or above; and consent of the instructor.

AD 412
Graphic Design Thesis 0 TO 5 hrs.
Thesis topics chosen in consultation with graphic design faculty. 4 undergraduate hours. 5 graduate hours. 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
Interactive Design 0 TO 5 hrs.
Advanced examination of graphic design in the new media technologies. 4 undergraduate hours. 5 graduate hours. Extensive computer use required. **Prerequisite(s):** AD 315 and credit or concurrent registration in AD 412; and senior standing or above.

AD 414
Interactivity in Graphic Design 0 TO 5 hrs.
Advanced examination of graphic design in the new media technologies. 4 undergraduate hours. 5 graduate hours. Extensive computer use required. **Prerequisite(s):** AD 315 and AD 317 and credit or concurrent registration in AD 412.

AD 415
Design Colloquium 4 OR 5 hrs.
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 hours. 5 graduate hours. **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
Independent Study in Graphic Design 1 TO 5 hrs.
Supervised independent study in graphic design. 1 to 4 undergraduate hours. 2 to 5 graduate hours. 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.

AD 420
Interdisciplinary Product Development I 0 TO 5 hrs.
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 hours. 5 graduate hours. 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
Interdisciplinary Product Development II 0 TO 5 hrs.
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 hours. 5 graduate hours. 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
Interactive Product Design II 0 TO 5 hrs.
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 hours. 5 graduate hours. 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
Industrial Design Thesis 0 TO 5 hrs.
Capstone course that enables students to select and explore an area of industrial design research. 4 undergraduate hours. 5 graduate hours. 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
Industrial Design Independent Study 4 OR 5 hrs.
Supervised independent study in any area of industrial design activity not covered in the regular curriculum. 4 undergraduate hours. 5 graduate hours. 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
Design Visualization 0 TO 5 hrs.
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 hours. 5 graduate hours. 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
Advanced Art/Studio Critique 6 hrs.
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, and Moving Image majors who have completed their major art requirements.

AD 463
Art/Studio Thesis 6 hrs.
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, and Moving Image majors who have completed all requirements and are prepared to graduate.

AD 471
Advanced Film/Video/Animation 0 TO 5 hrs.
Investigation of contemporary concerns in various areas of film and/or video activity under the direction of an instructor. 4 undergraduate hours. 5 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** AD 272 or AD 474; and consent of the instructor.

AD 472
Independent Study in Film/Video/Electronic Visualization 4 TO 12 hrs.
Supervised independent study in any areas of cinema, video production, or electronic visualization. May be repeated to a maximum of 12 hours. 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
Visual and Verbal Literacy in Art Education 4 hrs.
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
Educational Practice with Seminar I 6 hrs.

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
Educational Practice with Seminar II 6 hrs.

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
Computer Graphics I 0 TO 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** Credit or concurrent registration in CS 340.

AD 494
Special Topics in Art Therapy 1 TO 5 hrs.

Specializations, new developments in the field, in-depth study of theory, process, application, or independent study. 1 to 4 undergraduate hours. 2 to 5 graduate hours. 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.

AD 499
Cooperative Education 0 TO 4 hrs.

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**
Introduction to Art and Art History 3 hrs.

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
Art History I 4 hrs.

Survey of world art and architecture from prehistoric times to the end of the Middle Ages. • *Creative Arts course.*

AH 111
Art History II 4 hrs.

Survey of world art and architecture from the Renaissance to the present. • *Creative Arts course.*

AH 122
History of Chicago Architecture 3 hrs.

Survey of Chicago's architecture and built environment from 1803 to the present.

AH 160
Trends in International Contemporary Art since 1960 3 hrs.

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
Theories and Methods in Art History 3 hrs.

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
Greek Art and Archaeology 3 hrs.

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.

• *Creative Arts, and Past course.*

AH 205
Roman Art and Archaeology 3 hrs.

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
Topics in Architecture, Art, and Design 3 hrs.

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
The Art and Archaeology of the Ancient Near East 3 hrs.

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
The Art and Archaeology of Ancient Egypt 3 hrs.

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
History of Urbanism 3 hrs.

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
Medieval Architecture 3 hrs.

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
Renaissance Architecture 3 hrs.

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
Baroque Architecture 3 hrs.

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
North American Architecture 3 hrs.

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
European Architecture, 1750-1900 3 hrs.

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
History of Landscape Architecture 3 hrs.

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
History of Photography I: 1820-1920 3 hrs.

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
History of Photography II: 1900 to Present 3 hrs.

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
History of Film I: 1890 to World War II 3 hrs.

History of film from its beginnings in the 1890s up to World War II. **Same as** ENGL 232 and MOVI 232.

AH 233
History of Film II: World War II to the Present 3 hrs.
History of film from World War II to contemporary movements in world cinema. **Same as** ENGL 233 and MOVI 233.

AH 235
History of Design I: 1760-1925 3 hrs.
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
History of Design II: 1925 to the Present 3 hrs.
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
Early Christian and Byzantine Art and Architecture 3 hrs.
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
Medieval Art and Architecture 3 hrs.
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 250
Italian Renaissance Art 3 hrs.
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
Northern Renaissance Art and Architecture 3 hrs.
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
Art of the Baroque and Rococo 3 hrs.
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
European Art from 1750 to 1900 3 hrs.
Painting and sculpture in Western Europe from Neo-Classicism through early Modernism.
Prerequisite(s): 3 hours of art history at the 100-level or consent of the instructor.
• *Creative Arts course.*

AH 261
European and American Art from 1900 to the Present 3 hrs.
The art of Western Europe and the United States from high Modernism and the historic avant-garde movements through post-modernism 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
American Art to 1945 3 hrs.
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
Latin American Colonial Art 3 hrs.
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
African American Art 3 hrs.
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
Art and Archaeology of South America 3 hrs.
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
African Art 3 hrs.
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
Native American Art 3 hrs.
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
Pre-Columbian Art of South America 3 hrs.
The art and architecture of the Andean, southern Central American, and Caribbean cultures from 3000 BC to the sixteenth century, including Chavin, Moche, Inca, Taíno, 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
Pre-Columbian Art of Mesoamerica 3 hrs.
The art and architecture of prehispanic 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
South Asian Visual Cultures 3 hrs.
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
Alexander the Great and the Hellenistic World 3 hrs.
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
Asian Architecture 3 hrs.
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
Contemporary Architecture 3 hrs.
Worldwide trends in recent architecture, urbanism, architectural theory, and criticism. **Prerequisite(s):** AH 110 and AH 111; or consent of the instructor.

AH 370
Chinese Visual Culture 3 hrs.
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
Japanese Art 3 hrs.
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
Topics in Architecture, Art, and Design 3 OR 4 hrs.
Selected topics in the history of European and North American architecture, art, and design. 3 undergraduate hours. 4 graduate hours. 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
Topics in the Literature of Architecture 3 OR 4 hrs.
Discussion of selected readings in the theory and criticism of architecture. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours in the history of architecture or consent of the instructor.

AH 424
Topics in Architecture and Urban Form in Chicago 2 TO 4 hrs.
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
Contemporary Photography 3 OR 4 hrs.
Developments in the history of photography since 1950. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours in the history of photography or consent of the instructor.

AH 432
Topics in Film and Video 3 OR 4 hrs.
Selected studies in genres, schools, individual artists, critics, and theorists of film and video. 3 undergraduate hours. 4 graduate hours. 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
Women and Film 3 OR 4 hrs.
Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. **Same as** ENGL 472 and GWS 472. 3 undergraduate hours. 4 graduate hours. **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
Topics in Modern and Contemporary Design 3 OR 4 hrs.
Topics in modern and contemporary design. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours in the history of design or consent of the instructor.

AH 441
Topics in Medieval Art and Architecture 3 OR 4 hrs.
Selected topics in European art and architecture of the Middle Ages. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours of medieval art and architecture or consent of the instructor.

AH 450
Topics in Renaissance Art 3 OR 4 hrs.
Selected topics in Early Renaissance, High Renaissance, or Mannerist art and architecture. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** 3 hours in art history at the 200-level or above, or consent of the instructor.

AH 460
Topics in Modern and Contemporary Art 3 OR 4 hrs.
Selected topics in nineteenth- and twentieth-century modern and contemporary art. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours of modern art and architecture or consent of the instructor.

AH 463
Topics in North American Art and Architecture 3 OR 4 hrs.
Selected topics in North American art and architecture from colonial times to 1945. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours of North American art and architecture or consent of the instructor.

AH 464
Topics on Art in Chicago 2 TO 4 hrs.
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
Arts of the Black Atlantic 3 OR 4 hrs.
Interdisciplinary and discursive explorations of the visual and artistic expressions of artists of African descent in the New World. 3 undergraduate hours. 4 graduate hours.

AH 470
Topics in Non-Western Art and Architecture 3 OR 4 hrs.
Selected topics in the art and architecture of Africa, Asia, Oceania, and the indigenous peoples of the Americas. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary.

AH 471
Topics in Asian Art and Architecture 3 OR 4 hrs.
Selected topics in the art and architecture of Asia. **Same as** ASST 471. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours of Asian art and/or architecture or consent of the instructor.

AH 480
History of Collecting and Museology 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** AH 110 and AH 111 or consent of the instructor.

AH 481
Museum Practices 3 OR 4 hrs.
Administration of visual arts organizations, their budgets, staffing, structures, accreditation, and long-range planning. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** AH 480 or consent of the instructor.

AH 482
Museology Internship 6 OR 8 hrs.
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
Introduction to Historic Preservation 3 OR 4 hrs.
Preservation planning, historic building restoration, and the political and economic factors affecting the conservation of historic resources. 3 undergraduate hours. 4 graduate hours. 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
Honors Thesis 3 hrs.
Individual study on a project selected with the approval of the adviser. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Open only to seniors.

AH 491
Study Abroad in Art History 0 TO 12 hrs.
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
Readings in Art and Architecture History 3 OR 4 hrs.
Individually planned readings on selected topics under the supervision of a faculty member. 3 undergraduate hours. 4 graduate hours. 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
Introduction to Asian American Literature 3 hrs.
Introductory survey of a wide range of Asian American cultural forms in their sociohistorical contexts. **Same as** ENGL 123.
• *Creative Arts, and US Society course.*

ASAM 125
Introduction to Asian American Studies 3 hrs.
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 US Society course.*

ASAM 228
Sociology of Asia and Asian Americans 3 hrs.
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 US Society course.*

ASAM 290
Special Topics in Asian American Studies 3 hrs.
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 hours.

ASAM 328
Asian American Literature 3 hrs.
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:** ENGL 123.

ASAM 441
Topics in Asian American Literature and Culture 3 OR 4 hrs.

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 hours. 4 graduate hours. 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
Advanced Topics in Asian American Studies 3 OR 4 hrs.
 Study of a specific advanced topic within Asian American Studies. May be repeated if content does not duplicate previous course work. May be repeated to a maximum of 12 hours.

Asian Studies

ASST 109
East Asian Civilization: China 3 hrs.
 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
East Asian Civilization: Japan 3 hrs.
 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
Sociology of Asia and Asian Americans 3 hrs.
 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 US Society course.*

ASST 231
Politics in China 3 hrs.
 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
Politics in Japan and Korea 3 hrs.
 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
Late Imperial China: 1500 to 1911 3 hrs.
 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
China since 1911 3 hrs.
 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
Japan to 1600 3 hrs.
 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
Japan since 1600 3 hrs.
 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
History of South Asia 3 hrs.
 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 279
South Asian Cultures and Societies 3 hrs.
 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
China and Japan: Society and Culture 3 hrs.
 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
Asian Architecture 3 hrs.
 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
Chinese Visual Culture 3 hrs.
 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
Japanese Art 3 hrs.
 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
Topics in Asian Art and Architecture 3 OR 4 hrs.
 Selected topics in the art and architecture of Asia. **Same as AH 471.** 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** 3 hours of Asian art and/or architecture or consent of the instructor.

ASST 472
Issues and Events in Twentieth-Century China 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Recommended background: Previous course work in Chinese history at the 100- or 200-level.

ASST 473
Topics in East Asian History 3 OR 4 hrs.
 Specific topics are announced each term. **Same as HIST 473.** 3 undergraduate hours. 4 graduate hours. 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
Women in Chinese History 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Recommended background:** Previous course work in Chinese history or women's studies.

ASST 479
Culture and Colonialism in South Asia 3 OR 4 hrs.
 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 hours. 4 graduate hours.

Associated Health Sciences

AHS 495
Urban Health Multicultural Seminar 1 hr.
 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 pre-approved; 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 Fundamentals of Biochemistry 3 hrs.

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 Introduction to Research Methods 1 TO 4 hrs.

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 Introduction to Bioengineering 2 hrs.

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 Bioengineering Thermodynamics 3 hrs.

Introduction to equilibrium and nonequilibrium 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 Modeling Physiological Data and Systems 3 hrs.

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. Open only to freshmen and sophomores.

BIOE 250 Clinical Problems in Bioengineering 3 hrs.

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 Biological Systems Analysis 3 hrs.

System dynamics and frequency-domain analysis in bioengineering systems. Topics include population models, predator-prey models, metabolic networks, biological 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 Biotransport 3 hrs.

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 Biostatistics I 3 hrs.

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 108 and consent of the instructor.

Recommended background: Prior knowledge of Excel.

BIOE 396 Senior Design I 3 hrs.

Design considerations for biomedical devices emphasizing traditional engineering design concepts. **Prerequisite(s):** BIOE 430 and BIOE 431 and BIOE 439.

BIOE 397 Senior Design II 3 hrs.

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 Undergraduate Research 1 TO 5 hrs.

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 Medical Technology Assessment 2 OR 3 hrs.

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 hours. 3 graduate hours. **Prerequisite(s):** Junior standing or above and consent of the instructor.

BIOE 406 Regulation and Manufacturing Practices in Medical Technology 2 OR 3 hrs.

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 hours. 3 graduate hours. **Prerequisite(s):** Junior standing or above and consent of the instructor.

BIOE 407 Pattern Recognition I 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** MATH 220.

BIOE 408 Medical Product Development 2 OR 3 hrs.

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 hours. 3 graduate hours. **Prerequisite(s):** Junior standing or above and consent of the instructor.

BIOE 415 Biomechanics 3 OR 4 hrs.

Use of rigid and deformable body statics and rigid body dynamics to analyze various aspects of the human musculoskeletal system. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 204 and ME 210; and either BIOS 442 or BIOS 443.

BIOE 420 Introduction to Field and Waves in Biological Tissues 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** ECE 310.

BIOE 421 Biomedical Imaging 3 OR 4 hrs.

Introduction to engineering and scientific principles associated with X-ray, magnetic resonance, ultrasound, computed tomographic and nuclear imaging. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** MATH 210 and PHYS 142.

BIOE 430 Bio-instrumentation and Measurements I 3 OR 4 hrs.

Theory and application of instrumentation used for physiological and medical measurements. Characteristics of physiological variables, signal conditioning devices, and transducers. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ECE 210; and BIOS 100 or higher.

BIOE 431 Bio-instrumentation and Measurement Laboratory 2 hrs.

Practical experience in the use of biomedical instrumentation for physiological measurements. **Prerequisite(s):** Credit or concurrent registration in BIOE 430.

BIOE 432 Bio-instrumentation and Measurements II 3 OR 4 hrs.

Principles of bioinstrumentation for the assessment of physiological function and therapeutic intervention. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** BIOE 430.

BIOE 433 Bio-instrumentation and Measurements II Laboratory 1 hr.

Laboratory experiments using instruments to assess physiological function. **Prerequisite(s):** Credit or concurrent registration in BIOE 432.

BIOE 439
Biostatistics II 4 hrs.
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
Biological Signal Analysis 3 OR 4 hrs.
Analysis of signals of biological origin. Transient signals. Stability analysis. Control. Probabilities, stochastic processes. Medical applications. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** MATH 210 and senior or graduate standing.

BIOE 450
Molecular Biophysics of the Cell 4 hrs.
Introduction to molecular length, time, force, energy scales; statistical thermodynamics of solutions; DNA, RNA and protein structure and function; experimental methods. **Same as** PHYS 450. **Prerequisite(s):** PHYS 245 or the equivalent.

BIOE 452
Biocontrol 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ECE 310; and either BIOS 442 or BIOS 443.

BIOE 455
Introduction to Cell and Tissue Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** BIOS 100 and CME 260 or the equivalent.

BIOE 456
Cell and Tissue Engineering Laboratory 2 hrs.
Includes polymer scaffold fabrication, microstamping biomolecules, cellular adhesion and proliferation assays, and immo/fluorescent tagging. **Prerequisite(s):** BIOE 455 or consent of the instructor.

BIOE 460
Materials in Bioengineering 3 OR 4 hrs.
Analysis and design considerations of problems associated with prostheses and other implanted biomedical devices. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 260 and either BIOS 442 or BIOS 443.

BIOE 470
Bio-optics 3 OR 4 hrs.
Physical principles and instrumentation relevant to the use of light in biomedical research. Several current and developing clinical applications are explored. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** PHYS 142.

BIOE 472
Models of the Nervous System 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ECE 310; and either BIOS 442 or BIOS 443.

BIOE 475
Neural Engineering I: Introduction to Hybrid Neural Systems 3 OR 4 hrs.
Modeling, design, and analysis of hybrid systems comprised of living neurons and artificial components; examples drawn from neural and neuromuscular prostheses, biosensors, and biopotential control of robotics. **Same as** BIOS 475. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** BIOS 442 and credit or concurrent registration in BIOE 472.

BIOE 476
Neural Engineering I Laboratory 2 hrs.
Hands-on experience with computational and experimental models of engineered neural systems, with emphasis on neuroprostheses and biosensors. Animals used in instruction. **Prerequisite(s):** Credit or concurrent registration in BIOE 475.

BIOE 480
Introduction to Bioinformatics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** BIOS 100 and CS 201; or consent of the instructor.

BIOE 481
Bioinformatics Laboratory 2 hrs.
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
Introduction to Optimization Methods in Bioinformatics 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** BIOS 100 and CS 201.

BIOE 483
Molecular Modeling in Bioinformatics 3 OR 4 hrs.
Basic structural and dynamics tools in protein structure prediction, structure comparison, function prediction, Monte Carlo and molecular dynamics simulations. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in BIOE 480.

BIOE 494
Special Topics in Bioengineering 1 TO 4 hrs.
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
Biology of Cells and Organisms 5 hrs.
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. **Recommended background:** CHEM 112. • *Natural World—With Lab course.*

BIOS 101
Biology of Populations and Communities 5 hrs.
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. • *Natural World—With Lab course.*

BIOS 104
Life Evolving 5 hrs.
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 nonscience majors. • *Natural World—With Lab course.*

BIOS 196
Biology Colloquium 1 hr.
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
Introduction to Research 1 hr.
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 adviser. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Concurrent registration in BIOS 196 or approval of the department.

BIOS 206
Human Genetics 3 hrs.
Basic principles applied to pedigree analysis, genetic disease, gene therapy, populations, race, and bioethics. For students interested in the biological and social aspects of human genetics. **Prerequisite(s):** BIOS 100.

BIOS 210
Fossil Humans 4 hrs.
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. **Same as** ANTH 231.

BIOS 211
Biological Bases and Evolution of Human Behavior 4 hrs.
Comparative behavior of human and nonhuman primates; biological bases of primate behavior in terms of general evolutionary trends. **Same as** ANTH 235.

BIOS 212
The Human Skeleton 4 hrs.
Examination of the human skeleton, emphasizing bone identification and the functional anatomy of locomotion and dentition. **Same as** ANTH 237.

BIOS 220
Mendelian and Molecular Genetics 3 hrs.
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 MATH 090 and credit or concurrent registration in CHEM 232, or the equivalents.

BIOS 221
Genetics Laboratory 3 hrs.
Experiments and demonstrations of classical and molecular genetics using material from *Drosophila*, corn, rodents, bacteria, fungi, and viruses. **Prerequisite(s):** Credit or concurrent registration in BIOS 220.

BIOS 222
Cell Biology 3 hrs.
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
Cell Biology Laboratory 2 hrs.
Laboratory experiments in functional aspects of cellular activity, such as molecular biology, enzymology, photosynthesis, respiration. Modern methods and instrumentation are stressed. **Prerequisite(s):** Credit or concurrent registration in BIOS 222.

BIOS 230
Ecology and Evolution 3 hrs.
Mechanisms and models of population growth and interaction, energy, and nutrient flows in ecosystems. Mechanisms of genetic and phenotypic stability, modes of speciation, and macroevolution. **Prerequisite(s):** BIOS 101 and CHEM 112 and CHEM 114.

BIOS 233
Plant Phylogeny 4 hrs.
Major events in the evolution of land plants. Lecture, laboratory, discussion. **Prerequisite(s):** BIOS 100 and BIOS 101; or the equivalent.

BIOS 240
Homeostasis: The Physiology of Plants and Animals 3 hrs.
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 244
Introductory Plant Physiology 4 hrs.
A survey of topics in plant physiology, including cell structure and function, water relations, mineral nutrition, photosynthesis and respiration, and growth and development. **Prerequisite(s):** BIOS 100 and BIOS 101 or the equivalent; or consent of the instructor.

BIOS 245
Comparative Animal Physiology 5 hrs.
Basic animal physiology dealing with the structural and functional adaptations of animals in response to environmental stresses. Lecture and laboratory. Animals used in instruction. **Prerequisite(s):** BIOS 100 and BIOS 101 or the equivalent.

BIOS 268
Plants and Human Society 3 hrs.
Human uses of plants as sources of food, fuel, wood, fibers, medically useful drugs, narcotics, and hallucinogens. **Prerequisite(s):** BIOS 100 and BIOS 101; or the equivalent.

BIOS 270
Animals Without Backbones: Invertebrate Zoology 4 hrs.
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
Comparative Vertebrate Anatomy 5 hrs.
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
The Biology of the Brain 3 hrs.
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 the equivalent; or consent of the instructor.

BIOS 296
Directed Instruction 2 hrs.
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
Honors Biology 1 hr.
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 393 or BIOS 395 or BIOS 399) and consent of the instructor. Open only to freshmen, sophomores, and juniors. Restricted to Honors students.

BIOS 313
Primate Evolution 4 hrs.
Paleontology and systematics of fossil primates, emphasizing the adaptive radiations of the major living groups. **Same as** ANTH 330.

BIOS 320
Developmental Biology 3 hrs.
Principles governing growth and differentiation from the molecular to the organismic level. **Prerequisite(s):** BIOS 220.

BIOS 321
Developmental Biology Laboratory 3 hrs.
Laboratory problems in developmental biology. Animals used in instruction. **Prerequisite(s):** Credit or concurrent registration in BIOS 320.

BIOS 325
Vertebrate Embryology 5 hrs.
Study of the anatomical changes occurring during vertebrate development and their underlying control mechanisms. Lecture, laboratory. **Prerequisite(s):** BIOS 100 and BIOS 101; or the equivalent.

BIOS 330
General Ecology 3 hrs.
Interactions among organisms and their resources at the population, community, biome, and global levels, with practical applications. **Prerequisite(s):** BIOS 100 and BIOS 101; or the equivalent.

BIOS 331
General Ecology Laboratory 3 hrs.
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):** Credit or concurrent registration in BIOS 101.

BIOS 335
History of Life 3 hrs.
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 or the equivalent.

BIOS 350
General Microbiology 3 hrs.
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 BIOS 101 or the equivalent; and credit or concurrent registration in either CHEM 130 or CHEM 232.

BIOS 351
Microbiology Laboratory 2 hrs.
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
Introductory Biochemistry 3 hrs.
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
Introduction to Paleontology 4 hrs.
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
Seminar on Neurobiology 2 hrs.
Reading and discussion of both classic and recent research papers that are important in neurobiology. **Prerequisite(s):** BIOS 286 or the equivalent.

BIOS 391
Independent Study 1 hr.
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 3.00 grade point average in biological sciences courses and consent of the instructor.

BIOS 399
Independent Research 2 hrs.
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 3.00 grade point average in biological sciences courses, approval of the department, and consent of the instructor. **Recommended background:** Junior standing.

BIOS 402
Educational Practice with Seminar I 6 hrs.
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.

BIOS 403
Educational Practice with Seminar II 6 hrs.
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 BIOS 402, and approval of the department.

BIOS 416
Natural Products 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** One year of organic chemistry.

BIOS 424
Mammalian Histology 4 hrs.
The microscopic anatomy of tissues and organs in relation to their function. **Prerequisite(s):** BIOS 225 or BIOS 272.

BIOS 429
Laboratory in Electron Microscopy 3 hrs.
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
Evolution 4 hrs.
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
Plant and Animal Interactions 3 hrs.
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 or the equivalent; and any 200- or 300-level course in biological sciences.

BIOS 432
Restoration Ecology 3 hrs.
Philosophical, historical, and ecological basis for ecological restoration, with emphasis on readings in the primary literature and writing. **Prerequisite(s):** BIOS 330 or the equivalent.

BIOS 433
Plant Diversity and Conservation 4 hrs.
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 434
Population Biology 3 hrs.
Evolution, ecology, genetics, and geography of populations: role of genetic and phenotypic variation in the regulation of population numbers and evolutionary potential, and on the analysis of population data. **Prerequisite(s):** BIOS 220 and MATH 180.

BIOS 443
Animal Physiological Systems 4 hrs.
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 448
Environmental Toxicology 3 hrs.
Sources of environmental pollution and their ecological and health effects. **Prerequisite(s):** BIOS 100 and BIOS 101; and one physiology course; and credit or concurrent registration in CHEM 232.

BIOS 450
Advanced Microbiology 3 hrs.
Comprehensive analysis of metabolic, ecological, phylogenetic, and cytological diversity among the major groups of eubacteria and archaeobacteria. **Prerequisite(s):** BIOS 350.

BIOS 452
Biochemistry I 4 hrs.
Chemistry of proteins, nucleic acids, carbohydrates, and lipids. **Same as** CHEM 452. **Prerequisite(s):** Credit or concurrent registration in CHEM 234.

BIOS 454
Biochemistry II 4 hrs.
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
General Virology 4 hrs.
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
Principles of Paleontology 4 hrs.
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
Neural Engineering I: Introduction to Hybrid Neural Systems 3 OR 4 hrs.
Modeling, design, and analysis of hybrid systems comprised of living neurons and artificial components; examples drawn from neural and neuromuscular prostheses, biosensors, and biopotential control of robotics. **Same as** BIOE 475. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** BIOS 442 and credit or concurrent registration in BIOE 472.

BIOS 483
Neuroanatomy 4 hrs.
Organization of the nervous system, with an emphasis on mammals. **Same as** PSCH 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
Neuroscience I 3 hrs.
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
Neuroscience II 3 hrs.
Integrative 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
Animal Behavior and Neuroethology 4 hrs.
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
Developmental Neurogenetics 3 hrs.
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
Cellular Neurobiology Laboratory 3 hrs.
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
Topics in Ecology and Evolution 3 TO 4 hrs.
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
Medical Sciences and Human Pathophysiology 0 TO 4 hrs.
Introduction of fundamental concepts in pathophysiology. Specific disorders of major organ systems including etiology, manifestations, diagnostic tests, treatment modalities, pharmacotherapy, and complications. Credit is not given for BHIS 405 if the student has credit for AHS 420 or HIM 313 or HIM 314. 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. Restricted to students who require this course for graduation. Students outside these restrictions may be admitted with consent of the instructor.

BHIS 410
Health Data Structures and Management 3 hrs.
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 480.

BHIS 460
Introduction to Health Informatics 1 hr.
Introduction to information technology and systems in a healthcare setting; collection, analysis, and management of healthcare data; storage, retrieval, and networking; system security. Credit is not given for BHIS 460 if the student has credit for NUSC 218 or IPHS 420. Taught online with some essential classroom lectures. Students must have an active UIC NetId with valid password and access to a computer and the Internet. **Prerequisite(s):** 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.

BHIS 461
Information Systems for Health Information Management 2 hrs.
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
Management and Business Practices 3 hrs.
Principles of management with emphasis on business functions, procedures, and organizational structure as applied to various healthcare settings, including private 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
Information Sources in Biomedical & Health Information Sciences 1 hr.
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
Drugs and Society 2 hrs.
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
Survey of Basic and Clinical Pharmacology I 1 hr.
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
Survey of Receptors and Drug Action 1 hr.
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
Undergraduate Research in Biopharmaceutical Sciences 1 TO 3 hrs.
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
Professional Development Seminar I 1 hr.
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
Professional Development Seminar II 1 hr.
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
Professional Development Seminar III 1 hr.
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
Professional Development Seminar IV 1 hr.
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
Special Topics of Current Interest in Biopharmaceutical Sciences 1 TO 3 hrs.
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
Special Projects in Biopharmaceutical Sciences 1 TO 2 hrs.
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
Adverse Drug Reactions 2 hrs.
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
Principles of Toxicology 2 hrs.
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
Clinical Pharmacology I 1 hr.
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
Clinical Pharmacology II 1 hr.
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
Application of Science to the Law 4 hrs.
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** CRJ 480. **Prerequisite(s):** CRJ 210 and CRJ 260; or graduate standing.

BPS 494
Special Topics of Current Interest in Biopharmaceutical Sciences 1 TO 3 hrs.
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 hours. **Prerequisite(s):** Consent of the instructor; good academic standing as defined by UIC policies.

Business Administration

BA 070
Elementary Mathematics for Business 3 hrs.
Rational operations and arithmetic, fundamental operations of algebra, linear equations and polynomials, and graphics with applications to business. Satisfactory/Unsatisfactory grading only. No graduation credit. **Prerequisite(s):** Eligibility determined by performance on the placement test.

BA 090
Intermediate Algebra for Business 5 hrs.
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
Business Administration Orientation 1 hr.
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
Managerial Communication 3 hrs.
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
Business Internship Program 1 TO 3 hrs.
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 300
Advanced Managerial Communication 3 hrs.
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.

Catholic Studies

CST 120
Catholic Thought: An Introduction 3 hrs.
Introduction to the main topics, interests, and methods of Catholic thought. **Same as** RELS 120.
• Past course.

CST 150
Catholicism in U.S. History 3 hrs.
The Catholic experience in the United States from its colonial origins to the present. **Same as** HIST 150 and RELS 150.
• US Society course.

CST 193
The Divine Comedy 3 hrs.
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
Topics in Catholic History 3 hrs.
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
Topics in Catholic Thought 3 hrs.
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
Topics in Catholic History and Culture 3 hrs.
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
Independent Study 1 TO 3 hrs.
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.

Chemical Engineering

CHE 101
Introduction to Chemical Engineering Concepts 3 hrs.
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
Introduction To Thermodynamics 3 hrs.
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
Material and Energy Balances 4 hrs.
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
Chemical Engineering Thermodynamics 3 hrs.
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
Transport Phenomena I 3 hrs.
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
Transport Phenomena II 3 hrs.
Heat and mass transport phenomena. Heat conduction, convection, and radiation. Heat exchanger design. Diffusion. Mass transfer coefficients. **Prerequisite(s):** CHE 311.

CHE 313
Transport Phenomena III 3 hrs.
Mass transfer and phase equilibria. Multistage separations; applications in distillation; extraction; absorption and drying. **Prerequisite(s):** CHE 301.

CHE 321
Chemical Reaction Engineering 3 hrs.
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
Chemical Process Control 3 hrs.
Analysis and design of chemical process control systems. Feedback and feedforward controllers for a single process. Stability, tuning, and simulation of P-I-D controllers. Introduction to the control of entire chemical plants. Introduction to the concepts of digital control. **Prerequisite(s):** MATH 220 and CHE 312 and CHE 313 and CHE 321.

CHE 381
Chemical Engineering Laboratory I 2 hrs.
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
Chemical Engineering Laboratory II 2 hrs.
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
Undergraduate Research 1 TO 3 hrs.
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
Senior Design I 4 hrs.
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
Senior Design II 3 hrs.
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
Transport Phenomena 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CHE 312 or consent of the instructor.

CHE 413
Introduction to Flow in Porous Media 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CHE 312 or consent of the instructor.

CHE 421
Combustion Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CHE 301 and CHE 321.

CHE 422
Biochemical Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

CHE 423
Catalytic Reaction Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CHE 321 or consent of the instructor.

CHE 431
Numerical Methods in Chemical Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Graduate or advanced undergraduate standing.

CHE 438
Computational Molecular Modeling 3 OR 4 hrs.
Provide students with a fundamental understanding of the methods, capabilities and limitations of molecular simulations. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** CHE 301. **Recommended background:** Engineering/Science.

CHE 440
Non-Newtonian Fluids 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CHE 410 or consent of the instructor.

CHE 441
Computer Applications in Chemical Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Senior standing in chemical engineering.

CHE 445
Mathematical Methods in Chemical Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** MATH 220 or the equivalent.

CHE 450
Air Pollution Engineering 4 hrs.
Environmental aspects of combustion processes, pollutant formation. Control of pollutants and particulates. Air quality control. Fundamentals of combustion. **Same as** ME 450. **Prerequisite(s):** ME 321 or consent of the instructor.

CHE 456
Fundamentals and Design of Microelectronics Processes 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** Graduate standing or consent of the instructor. **Recommended background:** Engineering/Science.

CHE 494
Selected Topics in Chemical Engineering 1 TO 4 hrs.
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.

Chemistry

CHEM 100
Chemistry and Life 5 hrs.
Principles of structural and environmental chemistry underlying the phenomenon of life on Earth, discussed in an historical, cultural, and philosophical framework. Includes weekly two-hour laboratory. • *Natural World—With Lab course.*

CHEM 101
Preparatory Chemistry 4 hrs.
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
Preparatory Chemistry with Cooperative Intermediate Algebra 4 hrs.
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
General College Chemistry I 5 hrs.
Stoichiometry, periodicity, reaction types, the gaseous state, solution stoichiometry, chemical equilibria, acid-base equilibria, dissolution-precipitation equilibria. Includes a weekly three-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
General College Chemistry II 5 hrs.
Phase transitions, thermochemistry, spontaneity and equilibrium, electrochemistry, kinetics, bonding theory, order and symmetry in condensed phases, coordination compounds, descriptive chemistry. Includes a weekly three-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
Honors General Chemistry I 5 hrs.
Primarily for students in chemistry, chemical engineering, and physics curricula. First of a two-semester sequence covering the same topics as CHEM 112 and CHEM 114 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
Honors General Chemistry II 5 hrs.
Continues CHEM 116. Includes one 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
Survey of Organic and Biochemistry 5 hrs.
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
Elements of Glass Blowing 1 hr.
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
Analytical Chemistry 4 hrs.
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
Organic Chemistry I 4 hrs.
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**Organic Chemistry Laboratory I** 1 hr.

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**Organic Chemistry II** 4 hrs.

Continuation of CHEM 232.

Prerequisite(s): Grade of C or better in CHEM 232.

CHEM 305**Environmental Chemistry** 3 hrs.

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**Inorganic Chemistry** 4 hrs.

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**Advanced Synthetic Laboratory** 3 hrs.

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**Physical Chemistry for Biochemists I** 3 hrs.

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**Physical Chemistry I** 3 hrs.

Thermodynamics of gases, solutions, reaction equilibria, and phase transitions. No credit is 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; grade of C or better in or concurrent registration in MATH 210.

CHEM 343**Physical Chemistry Laboratory** 3 hrs.

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**Physical Chemistry for Biochemists II** 3 hrs.

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**Physical Chemistry II** 3 hrs.

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**Introductory Biochemistry** 3 hrs.

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**Chemical Information Systems** 3 hrs.

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**Advanced Inorganic Chemistry** 2 OR 3 hrs.

Introduction to the principles of inorganic chemistry. Structural and descriptive chemistry of the main-group elements. 2 undergraduate hours. 3 graduate hours. **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**Inorganic Chemistry Laboratory** 4 hrs.

Advanced inorganic chemistry laboratory. Preparative methods, Schlenk techniques, dry box, Fourier-transform infrared and UV-visible spectroscopy, crystal growth. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in CHEM 314.

CHEM 416**Inorganic Chemistry II** 3 OR 4 hrs.

Structural and descriptive chemistry of the transition elements. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CHEM 414.

CHEM 421**Instrumental Analysis** 4 hrs.

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**Advanced Organic Chemistry** 2 OR 3 hrs.

Rigorous treatment of the principles upon which modern organic chemistry is developed. 2 undergraduate hours. 3 graduate hours. **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**Advanced Physical Chemistry** 2 OR 3 hrs.

Application of quantum mechanics to molecular spectroscopy, statistical mechanics, and activated complex theory. 2 undergraduate hours. 3 graduate hours. **Prerequisite(s):** Grade of C or better in CHEM 346.

CHEM 448**Statistical Thermodynamics** 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** CHEM 346.

CHEM 452**Biochemistry I** 4 hrs.

Chemistry of proteins, nucleic acids, carbohydrates, and lipids. **Same as BIOS 452.**

Prerequisite(s): Credit or concurrent registration in CHEM 234.

CHEM 454**Biochemistry II** 4 hrs.

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**Biochemistry Laboratory** 3 hrs.

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**Natural Products** 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** One year of organic chemistry.

CHEM 470
Educational Practice with Seminar I 6 hrs.

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
Educational Practice with Seminar II 6 hrs.

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
Teaching Methods in Chemistry 2 OR 3 hrs.

A course in the methods of teaching high school chemistry, including the integration of technology. 2 undergraduate hours. 3 graduate hours. Extensive computer use required.

Prerequisite(s): 24 semester hours of undergraduate chemistry, including two semesters of laboratory chemistry. **Recommended background:** ED 210.

CHEM 474
Teaching Chemistry in High Schools 1 hr.

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
Cooperative Chemistry Practice 1 hr.

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
Independent Study 1 TO 2 hrs.

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
Special Topics in Chemistry 1 TO 4 hrs.

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
Supervised Research 3 hrs.

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 hours. 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
Elementary Chinese I 4 hrs.

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
Elementary Chinese II 4 hrs.

Continuation of Chinese 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** CHIN 101 or the equivalent.

CHIN 103
Intermediate Chinese I 4 hrs.

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
Intermediate Chinese II 4 hrs.

Continuation of Chinese 103. Four additional half hours each week in the language laboratory. **Prerequisite(s):** CHIN 103 or the equivalent.

CHIN 111
Chinese for Students from Chinese Background I 4 hrs.

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. **Prerequisite(s):** Appropriate score on the department placement test. **Recommended background:** Familiarity with a Chinese dialect (speaking and listening).

CHIN 112
Chinese for Students from Chinese Background II 4 hrs.

Principal emphasis is on writing and reading. For students who have some knowledge of Mandarin or other Chinese dialect. No credit given for CHIN 112 if the student has credit in CHIN 103 or CHIN 104. **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
Independent Study 1 TO 4 hrs.

Individual study under faculty direction for qualified students with special interests and needs. May be repeated to a maximum of 8 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

CHIN 296
Independent Study 1 TO 4 hrs.

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 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

Civil and Materials Engineering
CME 201
Statics 3 hrs.

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
Strength of Materials 3 hrs.

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
Structural Analysis I 3 hrs.

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
Fluid Mechanics and Hydraulics 3 hrs.

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
Hydraulics and Hydrology 3 hrs.

Hydraulics of pipe flow, open channel flow and hydraulic machinery. Ground water and surface water hydrology. **Prerequisite(s):** ME 211.

CME 216
Introduction to Environmental Engineering 3 hrs.
Environmental engineering and design for water and waste problems. 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
Properties of Materials 3 hrs.
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
Materials for Manufacturing 2 hrs.
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 and MATH 181 and PHYS 141.

CME 300
Composition and Properties of Concrete 2 hrs.
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
Behavior and Design of Metal Structures 3 hrs.
Design of metal structures, behavior of members, and their connections, theoretical, experimental, and practical basis for proportioning members.
Prerequisite(s): CME 205.

CME 302
Transportation Engineering 3 hrs.
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
Design of Reinforced Concrete Structures 3 hrs.
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
Water Resources Engineering 3 hrs.
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
Soil Mechanics and Laboratory 4 hrs.
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
Mechanical Vibrations 3 hrs.
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
Undergraduate Research 1 TO 3 hrs.
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
Undergraduate Seminar 1 TO 3 hrs.
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
Senior Design I 3 hrs.
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
Senior Design II 3 hrs.
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
Advanced Design of Reinforced Concrete Structures 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): CME 310 or the equivalent.

CME 401
Advanced Design of Metal Structures 3 OR 4 hrs.
Plate girders; unsymmetrical bending; torsion of thin-walled structures; lateral-torsional instability; composite construction. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): CME 301.

CME 402
Geometric Design of Highway Facilities 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): CME 302.

CME 403
Hydraulic Design 3 OR 4 hrs.
Selected applications of hydraulics and hydrology: pipe, pipe network, and water distribution system design; unsteady pipe flow; open channel design; storm water engineering. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): CME 215.

CME 405
Foundation Analysis and Design 3 TO 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): CME 315.

CME 406
Bridge Design 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): CME 301 and CME 310.

CME 407
Soil and Site Improvement Methods 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): CME 315.

CME 408
Traffic Engineering and Design 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. Fieldwork required.
Prerequisite(s): CME 302 or consent of the instructor.

CME 409
Structural Analysis II 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): CME 205 or consent of the instructor.

CME 410
Design of Prestressed Concrete Structures 3 OR 4 hrs.
Principles of prestressed concrete. Analysis and design of statically determinate prestressed concrete members. Introduction to design and detailing of connections. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): CME 310.

CME 411
Chemistry for Environmental Professionals 3 hrs.
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
Environmental Geotechnology 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CME 315.

CME 419
Air Quality Management I 3 hrs.
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
Water and Wastewater Analysis Laboratory 0 TO 4 hrs.
Laboratory class for environmental engineering. Analysis of water, wastewater, and soil for nutrients, pollutants, physical parameters, and biological parameters. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 216; or graduate standing.

CME 421
Water Treatment Design 3 OR 4 hrs.
Water quality control systems. Physical-chemical unit processes applied to systems designed for treatment of municipal and industrial waters. 3 undergraduate hours. 4 graduate hours. Field trip required at nominal fee. **Prerequisite(s):** CME 216.

CME 422
Wastewater Treatment Design 3 OR 4 hrs.
Processes involved in the biological treatment of wastewater. Aerobic and anaerobic treatment, sludge stabilization, and nutrient removal. 3 undergraduate hours. 4 graduate hours. Field trip required. **Prerequisite(s):** CME 216 or the equivalent.

CME 423
Management of Solid and Hazardous Wastes 3 hrs.
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
Environmental Remediation Engineering 3 OR 4 hrs.
Sources of contamination, regulations, site characterization, impact assessment, waste disposal and containment options, waste treatment options, case studies. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 315.

CME 427
Engineering Hydrology 3 OR 4 hrs.
Processes, techniques, and concepts in hydrology of interest to the engineer: precipitation, interception, evaporation, groundwater, unit hydrographs, flood routing, and statistics. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 215.

CME 430
Theory of Elasticity I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CME 204 and MATH 481 or the equivalents.

CME 431
Introduction to Continuum Mechanics 3 OR 4 hrs.
Vectors and tensors, stress, principal stresses and principal axes, deformation, compatibility conditions, constitutive equations, isotropy and mechanical properties of fluids and solids. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 203 and CME 211; or CME 203 and ME 211.

CME 432
Energy Methods in Mechanics 3 OR 4 hrs.
Variational theorems of elasticity. Applications to establish approximate systems and their solution. Beams (including shear deformation.) Introduction to instability theory. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 205.

CME 433
Fracture Mechanics and Failure Analysis I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CME 430.

CME 434
Finite Element Analysis I 3 OR 4 hrs.
Establishment of basic finite element, matrix relations for one-dimensional heat conduction problems: truss, beam, and frame structural systems. Solution methods of the resulting equations. Introduction to two-dimensional analysis. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 205 or ME 401 and CS 108.

CME 435
Theory of Vibrations I 3 OR 4 hrs.
Analytical and numerical treatment of linear, discrete systems. Nonlinear discrete systems. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 200 or the equivalent and MATH 220.

CME 450
Probability and Reliability in Structural Design 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

CME 453
Experimental Stress Analysis 0 TO 4 hrs.
Structural similitude and dimensional analysis. Strain measurement techniques. Introduction to photoelasticity. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 430.

CME 454
Structural Analysis and Design of Tall Buildings 3 OR 4 hrs.
State-of-the-art introduction to structural analysis and design of tall buildings. Load impact on different structural systems. 3 undergraduate hours. 4 graduate hours. **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
Crystallography and X-Ray Diffraction 4 hrs.
Fundamentals of crystallography. Theory of x-ray diffraction, experimental methods and applications. **Prerequisite(s):** CME 260.

CME 470
Physical and Mechanical Properties of Materials 4 hrs.
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
Thermodynamics of Materials 0 TO 4 hrs.
Application of chemical and thermodynamic principles to processing and characterization of materials. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CME 260.

CME 480
Welding Metallurgy 4 hrs.
Metallurgy of metals joining processes. Selection of processes and design of products manufactured by joining processes. **Prerequisite(s):** CME 368.

CME 493
Seminar 1 TO 3 hrs.
Topics of mutual interest to a faculty and a group of students. Offered as announced in the *Schedule of Classes*.

CME 494
Special Topics in Civil Engineering, Mechanics, and Materials 1 TO 4 hrs.
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
Special Problems 1 TO 4 hrs.
Special problems or reading by special arrangement with a faculty member. **Prerequisite(s):** Consent of the instructor.

Classics

CL 100
Greek Civilization 3 hrs.
An introduction to the life, society, and culture of the ancient Greeks. All readings are in English.
• *Creative Arts, and Past course.*

CL 101
Roman Civilization 3 hrs.
An introduction to the life, society, and culture of the ancient Romans. All readings are in English.
• *Past course.*

CL 102
Introduction to Classical Literature 3 hrs.

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
Introduction to Classical and Mediterranean Archaeology 3 hrs.

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
Mediterranean Traditions: Family, Society, and the Divine 3 hrs.

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
Introduction to Ancient Philosophy 3 hrs.

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
Hebrew Bible 3 hrs.

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
Classical Etymology in the Life Sciences 3 hrs.

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
The Ancient World: Greece 3 hrs.

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
The Ancient World: Rome 3 hrs.

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
Greek Art and Archaeology 3 hrs.

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.

• *Creative Arts, and Past course.*

CL 205
Roman Art and Archaeology 3 hrs.

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
Greek Mythology 3 hrs.

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
Gender and Sexual Orientation in Greek and Roman Literature 3 hrs.

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
Greek Art in Greece 3 hrs.

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 English, most museums in Athens area will be visited. Taught in English. Credit is not given for CL 215 in the student has credit in CL 204. **Prerequisite(s):** Approval of the department.

CL 216
Sacred Landscapes 3 hrs.

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. **Prerequisite(s):** Approval of the department.

CL 220
Ancient Philosophy I: Plato and His Predecessors 3 hrs.

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
Ancient Philosophy II: Aristotle and His Successors 3 hrs.

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
Topics in Muslim-Jewish Relations 3 hrs.

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
Introduction to Jewish Thought I 3 hrs.

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
The History of Jewish Biblical Interpretation 3 hrs.

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
Greek and Roman Epic Poetry 3 hrs.

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
Greek Tragedy 3 hrs.

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
Greek and Roman Comedy 3 hrs.

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
Roman Satire and Rhetoric 3 hrs.

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
Prophets in Judaism and Islam 3 hrs.

A cross-cultural survey of prophets. Texts include the Hebrew Bible, the Quran, and Islamic and Jewish exegetical material. **Same as** JST 254 and RELS 254.

• *Past course.*

CL 260
Near Eastern Myths & Epic 3 hrs.

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
Studies in the Classical Tradition 3 hrs.

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
Topics in Classical Civilization 3 hrs.
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
Independent Reading: Special Topics in Classics in Translation 3 hrs.
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
Alexander the Great and the Hellenistic World 3 hrs.
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 390
Seminar in Mediterranean Literature 3 hrs.
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 hours.
Recommended background: Grade of B or better in CL 104.

CL 398
Advanced Topics in Classical Civilization 3 hrs.
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
Topics in Greek History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** HIST 401. 3 undergraduate hours. 4 graduate hours. May be repeated.
Prerequisite(s): 3 hours of history or classics.

CL 402
Topics in Roman History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** HIST 402. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history or classics.

CL 404
Roman Law and the Civil Law Tradition 3 OR 4 hrs.
Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. **Same as** CRJ 404 and HIST 404. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): CRJ 200 or CL 203 or HIST 203 or consent of the instructor.

CL 405
Herodotus and His World 3 OR 4 hrs.
Examines the Histories of Herodotus—both the text and the culture of Classical Greece compared to the Near East and Egypt. **Same as** HIST 405. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): Sophomore standing or above.

CL 498
Special Topics in Classical Civilization 3 OR 4 hrs.
Advanced study of topics in classical civilization. Sample topic: Augustus and his image. 3 undergraduate hours. 4 graduate hours. 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
Advanced Independent Study 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Fundamentals of Human Communication 3 hrs.
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
Introduction to Communication 3 hrs.
Introduction to central concepts in communication, including key terms and theories, specific contexts, and key debates.
• *Individual and Society course.*

COMM 102
Introduction to Interpersonal Communication 3 hrs.
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
Introduction to Media 3 hrs.
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
African Americans in Film, 1900–Present: Images, Individuals, and Ideas on Screen 3 hrs.
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 US Society course.*

COMM 140
Fundamentals of Media Communication 3 hrs.
Instruction and practice in the composition, analysis, and dissemination of messages that employ media in professional contexts.
• *Individual and Society course.*

COMM 200
Communication Technologies 3 hrs.
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
Statistics in Communication Research 3 hrs.
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 207
The Mass Media and Politics 3 hrs.
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
History of Television 3 hrs.
A critical history of television. **Same as** ENGL 234 and MOVI 234. One additional hour each week for required screenings.

COMM 301
Communication Research 3 hrs.
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
Communication and Culture 3 hrs.
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
Male-Female Communication 3 hrs.
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
Organizational Communication 3 hrs.
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
Environmental Communication 3 hrs.
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
Interviewing and Communication 3 hrs.
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
Group Communication 3 hrs.
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
Writing for the Electronic Media 3 hrs.
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
Argument and Persuasion 3 hrs.
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
Mass Media and Popular Culture 3 hrs.
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
Special Topics in Communication 3 hrs.
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
Discourse Analysis 3 OR 4 hrs.
Nonverbal aspects of communication; rules of communication; speech acts; conversational coherences; acts and sequences in communication; marital communication patterns. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** COMM 304 or COMM 315 or COMM 416 or approval of the department.

COMM 416
Conflict and Communication 3 OR 4 hrs.
Students learn to manage and resolve conflict in business, governmental, and community settings. Practical analysis of interpersonal and group conflict cases. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** COMM 312 and COMM 313 and COMM 315; or approval of the department.

COMM 423
Discourse and Rhetoric 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** COMM 101 and COMM 102 and COMM 201; or approval of the department.

COMM 430
Media, Information, and Society 3 OR 4 hrs.
News as a distinct form of mass communication, involving social functions and significant questions about facts, truth, knowledge, and values. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** COMM 103 and COMM 200; or COMM 300; or approval of the department.

COMM 434
Global Communication Systems 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Approval of the department.

COMM 454
Cognitive Psychology of Language 3 hrs.
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
Topics in the History of Communications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor. **Recommended background:** At least one history course at the 100-level.

COMM 458
Minorities and Communication 3 OR 4 hrs.
Description and analysis of the processes through which ethnic and racial perceptions shape public discourse. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Two communication courses at the 300-level; or approval of the department.

COMM 460
Visual Communication 3 OR 4 hrs.
Exploration of processes through which meaning is derived from verbal and visual roles of media images in the cultural circuit. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Two communication courses at the 300-level; or approval of the department.

COMM 467
Public Opinion and Political Communication 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** POLS 200 or the equivalent or consent of the instructor.

COMM 473
Organizations and Their Publics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** COMM 201 and COMM 306; or approval of the department.

COMM 474
Internship 3 TO 8 hrs.
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
Seminar in Culture and Communication 3 hrs.
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
Seminar in Media and Communication 3 hrs.
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
Special Topics in Communication 3 OR 4 hrs.
Contemporary trends in the field of communication. 3 undergraduate hours. 4 graduate hours. 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

Independent Study 1 TO 4 hrs.
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 hours. 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**

Computer Literacy 3 hrs.
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

Introduction to Computing 3 hrs.
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

Introduction to Programming 3 hrs.
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

Introduction to Computing and Programming 4 hrs.
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

Fortran Programming for Engineers with MatLab 3 hrs.
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

C/C++ Programming for Engineers with MatLab 3 hrs.
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

Data Structures and Discrete Mathematics I 4 hrs.
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

Data Structures and Discrete Mathematics II 3 hrs.
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

Computer Architecture I: Logic and Computer Structures 4 hrs.
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

Languages and Automata 3 hrs.
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

Computer Ethics 2 hrs.
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

Software Design 4 hrs.
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

Computer Architecture II: Hardware-Software Interface 4 hrs.
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

Practicum in Computer Science Presentations 1 hr.
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

Operating Systems Concepts and Design 4 hrs.
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

Undergraduate Design/Research 3 hrs.
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

Computer Algorithms I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MCS 360; or grade of C or better in CS 202.

CS 411

Artificial Intelligence I 3 OR 4 hrs.
Problem representation; rule-based problem solving methods; heuristic search techniques. Application to expert systems, theorem proving, language understanding. Individual projects. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 484. **Prerequisite(s):** CS 202.

CS 415

Computer Vision I 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 487. **Prerequisite(s):** CS 202 or MCS 360; or consent of the instructor.

CS 421
Natural Language Processing 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CS 301 or MCS 441.

CS 422
User Interface Design and Programming 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 478. **Prerequisite(s):** CS 340.

CS 426
Multimedia Computing 3 OR 4 hrs.
Processing multimedia information including video, images, audio, text, and specialty data. Multimedia sources, formats, operations, and algorithms. Implementation projects. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CS 202 or MCS 360; or consent of the instructor.

CS 440
Software Engineering I 3 OR 4 hrs.
Software life cycle model, requirement specification techniques, large-scale software design techniques and tools, implementation issues, testing and debugging techniques, software maintenance. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 470. **Prerequisite(s):** CS 340.

CS 441
Distributed Object Programming Using Middleware 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** CS 340 and CS 385.

CS 442
Software Engineering II 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** CS 440.

CS 450
Introduction to Networking 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Design and Implementation of Network Protocols 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CS 340 and CS 450.

CS 466
Advanced Computer Architecture 3 OR 4 hrs.
Design of high performance computer architecture. Cost-performance; instruction sets; pipelining; memory hierarchy; I/O. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 466. Credit is not given for CS 466 if the student has credit for ECE 466. **Prerequisite(s):** CS 366.

CS 469
Computer Systems Design 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 469. Credit is not given for CS 469 if the student has credit in either ECE 368 or ECE 469. **Prerequisite(s):** CS 366.

CS 473
Compiler Design 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Object-Oriented Languages and Environments 3 OR 4 hrs.
Data abstraction, classes and objects, messages and methods, polymorphism and dynamic binding, inheritance. Object-oriented design. Pure and hybrid object-oriented languages. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 474. **Prerequisite(s):** CS 340.

CS 475
Object-Oriented Programming 3 OR 4 hrs.
OO Paradigm: classes, messages, methods, variables, inheritance, polymorphism; the C++ and Java languages; programming labs required. 3 undergraduate hours. 4 graduate hours. 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
Programming Language Design 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 476. **Prerequisite(s):** MCS 360 or CS 340.

CS 480
Database Systems 3 OR 4 hrs.
Database design, logical design, physical design. Relational databases. Recovery, concurrency control. Normalization. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 480. **Prerequisite(s):** CS 202.

CS 485
Networked Operating Systems Programming 4 OR 5 hrs.
Concepts, design, and programming of multiprocess and distributed system; inter-process communications; fault tolerance; distributed programming semantics. Programming assignments and project required. 4 undergraduate hours. 5 graduate hours. Previously listed as EECS 471. **Prerequisite(s):** CS 385.

CS 488
Computer Graphics I 0 TO 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 488. **Prerequisite(s):** Credit or concurrent registration in CS 340.

CS 491
Seminar 1 TO 4 hrs.
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
Special Problems 2 TO 4 hrs.
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.

Criminal Justice

CRJ 101
Introduction to the Justice System 3 hrs.
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. • *US Society course*.

CRJ 102
Foundations of Criminal Justice 3 hrs.
The philosophical and historical foundations of American and non-American criminal justice and law. Focus on diversity, due process, equality, liberty, punishment, social control, and legal institutions and procedures. • *US Society course*.

CRJ 110
Legal Rights and Responsibilities 3 hrs.

The historical evolution, philosophical justification, and political context of human rights is examined. The balance between individual rights and social responsibility is analyzed.
• *US Society course.*

CRJ 114
Race, Class, Gender, and the Law 3 hrs.

A review of criminological theories, organizational decision making, and a consideration of contemporary criminal justice policies with specific attention to race, class, and gender.
• *US Society course.*

CRJ 120
Crime and Society 3 hrs.

Provides an introduction to theories of social deviance and control. The historical development, empirical basis, strengths, and limitations of various theories are analyzed.
• *US Society course.*

CRJ 121
Violence in America 3 hrs.

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.
• *US Society course.*

CRJ 200
Law in Society 3 hrs.

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): CRJ 101.
• *US Society course.*

CRJ 210
Principles of Criminal Law 3 hrs.

A survey of the basic principles of criminal law and procedure: proof of fact, act and intent, responsibility. **Prerequisite(s):** CRJ 101.

CRJ 220
Criminology 3 hrs.

Introductory survey of the literature developed by criminologists in their study of crime in American society. **Same as** SOC 231. **Prerequisite(s):** CRJ 101.

CRJ 240
Criminal Justice Organizations 3 hrs.

Theories of complex organizations, organization behavior, and administration relating to criminal justice and other rule-applying agencies.
Prerequisite(s): CRJ 101.

CRJ 261
Research Methods I 3 hrs.

Introduction to research in criminal justice. From conceptualization to description of results. Research design, observation, archival, survey, and experimental methodologies in criminal justice related settings.
Prerequisite(s): CRJ 101.

CRJ 262
Research Methods II 3 hrs.

Statistical data analysis in the criminal justice context. Probability, t-tests, correlation, regression, sampling theory, tests of significance. Problems with police and crime survey data.
Prerequisite(s): CRJ 261; and one of the following: MATH 090 or MATH 092 or MATH 118.

CRJ 271
African Americans and the Politics of Incarceration 3 hrs.

Examination of the status of African Americans as offenders, victims, and personnel within the criminal justice system. **Same as** AAST 271 and SOC 271. Previously listed as CRJ 343.
Prerequisite(s): AAST 100 or CRJ 101 or SOC 100; or consent of the instructor.
• *Individual and Society, and US Society course.*

CRJ 301
Writing in the Discipline 0 hrs.

This course will be used to identify the Writing-in-the-Discipline requirement. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Junior or senior standing; and approval of the department.

CRJ 303
Introduction to Forensic Science 3 hrs.

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 criminal justice or a natural sciences discipline; or consent of the instructor.

CRJ 310
Substantive Criminal Law 3 hrs.

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):** CRJ 210 and one other 200-level criminal justice course.

CRJ 311
Criminal Procedure 3 hrs.

Legal problems associated with the investigation of crime, acquisition of evidence, commencement of adjudication, sentencing, and appellate rights.
Prerequisite(s): One 200-level criminal justice course.

CRJ 345
Police in Society 3 hrs.

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): CRJ 101 and CRJ 240 and one other 200-level criminal justice course; or consent of the instructor.

CRJ 350
Introduction to the Criminal Courts 3 hrs.

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): CRJ 101 and two 200-level criminal justice courses; or consent of the instructor.

CRJ 355
Introduction to Corrections 3 hrs.

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):** CRJ 101 and two 200-level criminal justice courses; or consent of the instructor.

CRJ 361
Criminal Investigation 3 hrs.

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):** CRJ 101 and two 200-level criminal justice courses; or consent of the instructor.

CRJ 394
Senior Studies in Criminal Justice 3 hrs.

The analysis and exposition of historical or contemporary issues in the justice field. Topics may vary from semester to semester.
Prerequisite(s): Senior standing.

CRJ 395
Internship 3 hrs.

Observation of and participation in the daily work of 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 hours. A maximum of three hours may be counted toward the undergraduate major in Criminal Justice. **Prerequisite(s):** CRJ 200 and CRJ 210 and CRJ 220 and CRJ 240 and CRJ 261 and CRJ 262; and one from among CRJ 345 or CRJ 350 or CRJ 355 and junior standing; and consent of the instructor; and preregistration in the department.

CRJ 399
Independent Study 2 TO 8 hrs.

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):** CRJ 200 and CRJ 210 and CRJ 220 and CRJ 240 and CRJ 261 and CRJ 262; and one course from among CRJ 345 or CRJ 350 or CRJ 355; and a 3.50 overall grade point average, and a 3.00 grade point average in criminal justice. For criminal justice majors only.

CRJ 402
Trial Interaction 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 261 and CRJ 350; or consent of the instructor.

CRJ 404
Roman Law and the Civil Law Tradition 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 200 or CL 203 or HIST 203 or consent of the instructor.

CRJ 405
The Problem of Justice 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 101, plus two 200-level courses in criminal justice or two 200-level courses in political science.

CRJ 421
Juvenile Justice System 3 OR 4 hrs.
Theories of juvenile delinquency and rule-breaking; juvenile rights; organization and administration of the juvenile justice system in the U.S. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CRJ 210 and CRJ 220.

CRJ 422
Victimization 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 101 and two 200-level criminal justice courses.

CRJ 423
Violence 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 101 and CRJ 200.

CRJ 424
Gender, Crime, and Justice 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 101 and CRJ 220; or consent of the instructor.

CRJ 435
Organized and White Collar Crime in the United States 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Two 200-level criminal justice courses.

CRJ 442
Comparative Criminal Justice Institutions 3 OR 4 hrs.
Comparative study of law, jurisprudence, enforcement, and punishment in Western and non-Western societies, including civil law, common law, and Islamic systems. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Two 200-level criminal justice courses.

CRJ 456
Community Corrections 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CRJ 350 or CRJ 355; plus one 200-level criminal justice course.

CRJ 480
Application of Science to the Law 4 hrs.
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):** CRJ 210 and CRJ 260; or graduate standing.

CRJ 491
Topics in Rule Breaking 3 OR 4 hrs.
Content of course varies, addressing major issues. 3 undergraduate hours. 4 graduate hours. 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 criminal justice courses.

CRJ 492
Topics in Rule Application 3 OR 4 hrs.
Content of course varies, addressing major issues. 3 undergraduate hours. 4 graduate hours. 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 criminal justice courses.

Curriculum, Instruction, and Evaluation

CIE 410
Literature, Social Studies, and the Arts in the Elementary School 4 hrs.
Theory and practice in curriculum development, planning instruction, and assessing learning in elementary classrooms. Literature, social studies, and the arts content foci.

CIE 413
Foundations of Literacy Instruction, K-8 4 hrs.
Introduction to teaching literacy K-8; examining cognitive, social, developmental perspectives; relationships between language and literacy; connections to other school subjects; aligning instruction, assessment, standards. Extensive computer use required [word processing on writing; search engines for examining literacy curriculum, professional organizations, e-mail networks]. **Prerequisite(s):** CIE 450; and consent of the instructor. Open to Master's degree students and PhD degree students. **Recommended background:** Admission to MED in Instructional Leadership: Literacy, Language and Culture.

CIE 414
Middle and High School Literacy 3 hrs.
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.

CIE 416
Programs For Underserved Youth 3 hrs.
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.

CIE 464
Bilingualism and Literacy in a Second Language 4 hrs.
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.

CIE 472
Language Proficiency Assessment and ESL Instruction 4 hrs.
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):** CIE 481 and junior standing or above; or consent of the instructor.

CIE 480
Technology and Multimedia: Learning Tools in the Classroom 3 OR 4 hrs.
New technologies to support teaching and learning in pre-college classrooms. **Same as** SPED 480. 3 undergraduate hours. 4 graduate hours.

CIE 481
Foundations and Current Issues in Educating English Language Learners 4 hrs.
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.

CIE 482
Assessment and Instruction: A Multilingual/Multicultural Perspective 4 hrs.
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):** CIE 481 and junior standing or above; or consent of the instructor.

CIE 483
Methodology of TESOL 3 OR 4 hrs.
Methods of teaching listening, speaking, reading, and writing to speakers of English as a second or foreign language. **Same as** LING 483. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Junior standing and consent of the instructor.

CIE 484
Curriculum and Instruction in the Middle School 3 hrs.
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.

CIE 494
Special Topics in Curriculum, Instruction and Evaluation 1 TO 4 hrs.
Exploration of an area not covered in existing course offerings. Content varies. May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

Dance

DNCE 264
Instructional Techniques in Dance 2 hrs.
Introduction to dance education with emphasis on developing teaching methods and skills for the classroom. **Same as** MVSC 264.

Disability and Human Development

DHD 176
Disability in American Film 3 hrs.
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 US Society course.*

DHD 401
Foundations of Disability and Human Development 3 hrs.
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
Introduction to Disability Policy and Organization 3 hrs.
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
Introduction to Assistive Technology: Principles and Practice 3 hrs.
Principles and exemplary practice of assistive technology used by individuals with disabilities, including augmentative communication, seating, mobility, computer access, environmental control, home modifications, and worksite 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
Adaptive Equipment Design and Fabrication 3 hrs.
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
Assistive Technology for Literacy, Learning, and Participation in Pre-K through High School 3 hrs.
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
Topics in Disability Studies 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Fundamentals of Behavior Analysis 3 hrs.
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
Survey of Developmental Disabilities 3 hrs.
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
Special Topics in Disability and Human Development 1 TO 4 hrs.
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
Exploring the Earth's Surface 5 hrs.
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
Exploring the Earth's Interior 5 hrs.
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
The Changing Earth 5 hrs.
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
The Restless Earth 4 hrs.
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
Honors Earth and Environmental Sciences 1 hr.
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
Fieldwork in Missouri 2 hrs.
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
Mineralogy 4 hrs.
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
Environmental Geology 4 hrs.
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
Introduction to Geochemistry 4 hrs.
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
Introduction to Petrology 4 hrs.
Igneous and metamorphic rock composition, classification, rock-forming processes. Description and interpretation of thin-sections. **Prerequisite(s):** EAES 220.

EAES 350
Principles of Sedimentology and Stratigraphy 4 hrs.
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
Introduction to Paleontology 4 hrs.
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
Current Topics in Earth and Environmental Sciences 2 hrs.
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
Independent Research 2 TO 8 hrs.
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
Field Experience in Earth Sciences 6 hrs.
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
Geochemistry 4 hrs.
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
Environmental Geochemistry 4 hrs.
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
Organic Geochemistry 4 hrs.
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
Crystal Chemistry of Rock-Forming Minerals 4 hrs.
The crystal chemistry, chemistry, phase equilibria, and properties of materials and minerals. **Prerequisite(s):** EAES 220 or consent of the instructor.

EAES 424
X-Ray Crystallography 4 hrs.
Introduction to the use of diffraction techniques for the identification and characterization of materials. **Prerequisite(s):** Consent of the instructor.

EAES 430
Igneous Petrology 4 hrs.
Discussion of petrogenesis, application of thermodynamic principles to the crystallization of rocks. **Prerequisite(s):** CHEM 114 and EAES 330.

EAES 440
Structural Geology and Tectonics 4 hrs.
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 and MATH 180; and either PHYS 101 or PHYS 141; or consent of the instructor.

EAES 444
Geophysics 4 hrs.
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 440 and MATH 181, and either PHYS 102 or PHYS 142; or consent of the instructor.

EAES 448
Plate Tectonics 4 hrs.
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
Clastic Sedimentology and Sequence Stratigraphy 4 hrs.
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
Principles of Paleontology 4 hrs.
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
Surficial Processes 4 hrs.
Quantitative analysis of the mechanics, rates, and distribution of physical processes that modify Earth's and other planets' surfaces. Introduction to field, theoretical, and modelling approaches. **Prerequisite(s):** EAES 101 and MATH 181.

EAES 475
Hydrology/Hydrogeology 4 hrs.
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
Statistical Methods in Earth and Environmental Sciences 4 hrs.
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
Instrumental Analysis 3 hrs.
Scanning electron microscopy with energy-dispersive system. DC plasma analysis. **Prerequisite(s):** CHEM 114 and EAES 220; or consent of the instructor.

EAES 492
Internship in the Earth and Environmental Sciences 1 hr.
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
Current Topics in Earth and Environmental Sciences 4 hrs.
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
Economic Decisions for Consumers and Families 3 hrs.
Principles of consumer education. Consumer decision making and consumer responsibility throughout the life cycle.

ECON 110
Economics of Gender 3 hrs.
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
Principles of Microeconomics 3 hrs.
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 US Society course.*

ECON 121
Principles of Macroeconomics 3 hrs.
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 US Society course.*

ECON 130
Principles of Economics for Business 5 hrs.
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 US Society course.*

ECON 201
Honors Seminar in Economics 1 hr.
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
Topics in Economics Taught in Spanish 3 hrs.
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
Microeconomics: Theory and Business Applications 4 hrs.
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
Microeconomics: Theory and Applications 3 hrs.
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 both ECON 120 and ECON 121; and MATH 160.

ECON 221
Macroeconomics in the World Economy: Theory and Applications 3 hrs.
Determinants of the level of economic activity, inflation, unemployment, international economics, impact of domestic and world economy on business decisions, applications of the theory. **Prerequisite(s):** ECON 130, or both ECON 120 and ECON 121; and MATH 160.

ECON 270
Statistics for Economics 4 hrs.
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
Law and Economics 3 hrs.
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 Criminal Justice majors.

ECON 322
Managerial Economics 3 hrs.
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
Business Conditions Analysis 3 hrs.
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
Economic History of the United States 3 hrs.
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
Topics in Economic History 3 hrs.
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
History of Economic Thought 3 hrs.
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
Public Finance 3 hrs.
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
Industrial Organization 3 hrs.
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
Government and Business 3 hrs.
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
Labor Economics 3 hrs.
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
Urban Economics 3 hrs.
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
International Economics 3 hrs.
The balance of payments; fixed, flexible, and multiple exchange rates; capital flows; comparative advantage; tariffs and subsidies; the factor price equalization theorem. **Prerequisite(s):** ECON 218 or ECON 220 or ECON 221.

ECON 334
Economic Development 3 hrs.
Characteristics of poor countries, past experience and its relevance, analytical approaches, the role of exposure to foreign factors, planning, and other policies. **Prerequisite(s):** ECON 218 or ECON 220 or ECON 221.

ECON 339
Monetary Theory 3 hrs.
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
Regional Economics 3 hrs.
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
Introduction to Mathematical Microeconomics 3 hrs.
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
Econometrics 3 hrs.
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
Economics of Sports and Entertainment 3 hrs.
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
Economics of Education 3 hrs.
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
Economic Demography 3 hrs.
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
Health Economics 3 hrs.
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
Economics of Risk and Insurance 3 hrs.
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
Environmental Economics 3 hrs.
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
Introduction to Urban Real Estate 3 hrs.
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
Special Topics in Economics 3 hrs.
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
Research and Writing in Economics 0 hrs.
This course is used to identify 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
Independent Study in Economics 1 TO 3 hrs.
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, overall GPA of at least 3.20/4.00, and consent of a faculty member and the head of the department.

ECON 436
Mathematical Economics 3 OR 4 hrs.
Application of mathematics to theories of consumer and producer behavior, determination of prices in markets, growth and stability features of macroeconomic models. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ECON 218 or ECON 220; and either ECON 345 or MATH 165 or MATH 180.

ECON 441
Teaching Methods in Economics 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Topics in Economic Education 1 TO 4 hrs.
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
Business Forecasting Using Time Series Methods 3 OR 4 hrs.
Autoregressive, moving average, and seasonal models for time series analysis and business forecasting. Forecasting using multivariable transfer function models. **Same as IDS 476.** 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IDS 371 or ECON 346 or consent of the instructor.

ECON 472
Real Estate Finance 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Real Estate Markets and Valuation 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Competitive Strategy 4 hrs.
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.

Education

ED 135
Child and Youth Policies in Urban America 3 hrs.
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. • *US Society course.*

ED 194
Special Topics in Education 1 TO 4 hrs.
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
Education Policy
Foundations 3 hrs.

Social, cultural, political, and intellectual forces that influence and shape educational policy in the learning process.

Prerequisite(s): Sophomore standing and approval of the College of Education.

ED 210
The Educative
Process 3 hrs.

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 College of Education.

ED 211
Special Topics in
Education 1 hr.

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 250
Teaching and
Learning in
Schools I 1 hr.

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
Teaching and
Learning in
Schools II 1 hr.

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 257
Foundations of
Literacy Learning
and Teaching 3 hrs.

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
Bilingualism and
Cross-Cultural
Issues in
Elementary
Schools 3 hrs.

Provide prospective teachers with an introduction to the key issues, concepts, and skills related to effective instruction of linguistically and culturally diverse students. **Prerequisite(s):** Grade of B or better in EPSY 255, and grade of B or better in ED 256, and grade of B or better in ED 257; and completion of the University Writing requirement. Must enroll concurrently in ED 251.

ED 294
Special Topics in
Education 1 TO 4 hrs.

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
Literacy and
Elementary
Education 3 hrs.

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
Introductory
Fieldwork in
Elementary
Education 3 hrs.

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
Reading and
Writing through
the Elementary
Grades 3 hrs.

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
Teaching
Elementary
School
Mathematics and
Science 3 hrs.

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
Fieldwork in
Elementary
Education II 8 hrs.

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
Teaching and
Learning for
Children of
Various Abilities
and Cultures 3 hrs.

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
Social Studies
and Literature in
the Elementary
Grades 3 hrs.

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
Student Teaching
in the Elementary
Grades 18 hrs.

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
Curriculum,
Instruction, and
Evaluation in the
Secondary School 4 hrs.

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
Teaching
Language and
Literacy in
Elementary
School I 3 hrs.

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
Teaching
Language and
Literacy in
Elementary
Schools II 3 hrs.

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
Teaching and
Learning
Mathematics in
the Elementary
School 3 hrs.

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
Teaching and Learning Science in Elementary School 3 hrs.
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
Teaching and Learning Social Studies and Arts in Elementary School 3 hrs.
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
Multiculturalism, Bilingualism, and Diversity in Elementary School 4 hrs.
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
Orchestrating Teaching and Learning I 4 hrs.
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
Orchestrating Teaching and Learning II 4 hrs.
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
Technology Integration in Elementary School I 2 hrs.
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
Technology Integration in Elementary School II 2 hrs.
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
Special Topics in Education 1 TO 4 hrs.
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
Independent Study 1 TO 4 hrs.
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 hours. **Prerequisite(s):** A written proposal for faculty approval and junior standing.

ED 402
Philosophy of Education and Urban School Policy 3 hrs.
Selected social and education philosophies and their impact on urban school curriculum design, school organization, and control.

ED 403
Policy Issues in the History of American Education 3 hrs.
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
Advanced Educational Psychology 3 hrs.
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
Advanced Developmental Psychology and Educational Processes 3 hrs.
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 429
Practicum in Secondary Classrooms 2 hrs.
Students will observe secondary classrooms, tutor individuals, and teach small groups. Discussions explore curriculum, instruction, and assessment practices within content areas and cultural contexts. **Prerequisite(s):** Admission into a secondary teacher education program and graduate standing. Must enroll concurrently in ED 430.

ED 430
Curriculum, Instruction, & Evaluation in Education 3 hrs.
Introduction to curriculum, instruction, and evaluation as areas of inquiry; implications of these areas of inquiry for educational practice; related contemporary problems and issues. **Prerequisite(s):** Admission to graduate study in education, or consent of the instructor.

ED 431
Improving Learning Environments 3 hrs.
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
Instruction and Evaluation in Secondary Education 5 hrs.
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 or, in graduate teacher certification program: ED 402 or ED 403 or PS 401; and ED 421 or ED 422 or ED 445.

ED 445
Adolescence and the Schools 3 hrs.
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
Composing a Teaching Life I 15 hrs.
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
Composing a Teaching Life II/ Senior Reflective Seminar 5 hrs.
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
Political and Sociocultural Perspectives on Special Education 3 hrs.
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
Educational Practice with Seminar I 6 hrs.

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
Educational Practice with Seminar II 6 hrs.

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
Promoting Academic and Prosocial Behavior I 3 hrs.

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
Teaching Math and Science with Adaptations 3 hrs.

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 Psychology

EPSY 255
Child Development and Elementary Education 3 hrs.

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
Learning, Cognition, and Student Assessment 2 hrs.

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
Independent Study 1 TO 4 hrs.

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
Urban Youth Fieldwork 3 hrs.

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 hours. Previously listed as CIE 415. Fieldwork required. **Prerequisite(s):** Junior standing or above; and consent of the instructor. Requires interview and placement.

EPSY 420
Social Development of Urban Children 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** Admission to a graduate program in education or psychology, or consent of the instructor.

EPSY 429
Constructivist Approaches to Development: Piaget and Vygotsky 3 OR 4 hrs.

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 hours. 4 graduate hours. **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
Characteristics of Early Adolescence 3 hrs.

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 449
History and Philosophy of Early Childhood Education 3 hrs.

Historical and philosophical foundations of early childhood education. Emphasis on the effects of changing economic, political, and social conditions, values, and views of human development. **Prerequisite(s):** ED 210 or the equivalent.

EPSY 465
Cognitive Development and Disabilities 3 hrs.

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
Language Development, Diversity, and Disabilities 3 hrs.

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
Social and Emotional Development and Disabilities 3 hrs.

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
Topics in Educational Psychology 1 TO 4 hrs.

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 hours.

Prerequisite(s): Consent of the instructor.

EPSY 496
Independent Study 1 TO 4 hrs.

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
The Digital Information Age 3 hrs.

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
Introduction to Electrical and Computer Engineering 4 hrs.

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
Electrical Circuit Analysis 3 hrs.

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
Circuit Analysis 4 hrs.
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 a grade of C or better in ECE 115 and a grade of C or better in PHYS 142.

ECE 265
Introduction to Logic Design 4 hrs.
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
Computer Organization I 3 hrs.
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
Discrete and Continuous Signals and Systems 3 hrs.
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
Communication Engineering 4 hrs.
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
Digital Signal Processing I 4 hrs.
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
Communication Electromagnetics 3 hrs.
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
Computer Communication Networks I 4 hrs.
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
Electronics I 4 hrs.
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
Probability and Random Processes for Engineers 3 hrs.
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
Electronics II 4 hrs.
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
Solid-State Device Theory 4 hrs.
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
Integrated Circuit Engineering 3 hrs.
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
Principles of Automatic Control 4 hrs.
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
Computer Organization II 4 hrs.
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
Microprocessor-Based Design 4 hrs.
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
CAD-Based Digital Design 4 hrs.
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
Undergraduate Research 2 TO 4 hrs.
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
Senior Design I 2 hrs.
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
Senior Design II 2 hrs.
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
Introduction to Microelectromechanical Systems 3 OR 4 hrs.
Definition, classification, and case studies of transducers, sensors, and actuators. Microfabrication methods for microelectromechanical systems (MEMS). Design, simulation, and modeling of MEMS. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 400. **Prerequisite(s):** ECE 346.

ECE 401
Quasi-Static Electric and Magnetic Fields 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 401. **Prerequisite(s):** ECE 322.

ECE 407
Pattern Recognition I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** MATH 220.

ECE 410
Network Analysis 3 OR 4 hrs.
Matrix algebra for network analysis, network parameters, macromodeling, high-frequency measurements, network functions and theorems. Topics in computer-aided analysis. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 410. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 412
Introduction to Filter Synthesis 3 OR 4 hrs.
Fundamentals of network synthesis, filter approximations and frequency transformations. Active filter synthesis using bi-linear and biquad circuits. Topics in computer-aided design. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 412. **Prerequisite(s):** Grade of C or better in ECE 310.

ECE 415
Image Analysis and Computer Vision I 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 415. **Prerequisite(s):** MATH 310 or a grade of C or better in ECE 310.

ECE 417
Digital Signal Processing II 0 TO 5 hrs.
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 hours. 5 graduate hours. **Prerequisite(s):** ECE 317.

ECE 418
Statistical Digital Signal Processing 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 418. **Prerequisite(s):** ECE 317 and ECE 341.

ECE 421
Introduction to Antennas and Wireless Propagation 3 OR 4 hrs.
Potential, antenna parameters, radiation from linear wires and loops, impedance, arrays, communication links and path loss, tropospheric propagation, fading and diversity. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 421. **Prerequisite(s):** ECE 225 and ECE 322.

ECE 423
Electromagnetic Compatibility 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 423. **Prerequisite(s):** ECE 320 and ECE 322.

ECE 424
RF and Microwave-Guided Propagation 0 TO 5 hrs.
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 hours. 5 graduate hours. **Prerequisite(s):** ECE 225 and ECE 322.

ECE 427
Modern Linear Optics 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 427. **Prerequisite(s):** ECE 310 and ECE 322.

ECE 431
Analog Communication Circuits 0 TO 5 hrs.
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 hours. 5 graduate hours. Previously listed as EECS 431. **Prerequisite(s):** ECE 311 and ECE 340.

ECE 432
Digital Communications 3 OR 4 hrs.
Source coding, quantization, signal representation, channel noise, optimum signal reception, digital modulation: ASK, PSK, FSK, MSK, M-ary modulation. Probability of error. Intersymbol interference. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 432. **Prerequisite(s):** ECE 311 and ECE 341.

ECE 434
Multimedia Systems 3 OR 4 hrs.
Multimedia systems; compression standards; asynchronous transfer mode; Internet; wireless networks; television; videoconferencing; telephony; applications. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** ECE 333.

ECE 435
Wireless Communication Networks 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 435. **Prerequisite(s):** ECE 432 and ECE 333.

ECE 436
Computer Communication Networks II 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** ECE 333.

ECE 437
Wireless Communications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ECE 311 and ECE 341.

ECE 442
Power Semiconductor Devices and Integrated Circuits 0 TO 5 hrs.
Covers the physics of devices encountered in the power-electronic and switching converter systems. 4 undergraduate hours. 5 graduate hours. 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
Analysis and Design of Power Electronic Circuits 0 TO 5 hrs.
Analysis of different isolated and nonisolated power-converter topologies, understanding of power-converter components, switching schemes. 4 undergraduate hours. 5 graduate hours. Previously listed as EECS 445. **Prerequisite(s):** ECE 342 and a grade of C or better in ECE 310.

ECE 448
Transistors 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 448. **Prerequisite(s):** ECE 346.

ECE 449
Microdevices and Micromachining Technology 0 TO 5 hrs.
Microfabrication techniques for microsensors, microstructures, and microdevices. Selected examples of physical/chemical sensors and actuators. Simulation experiments. Laboratory. **Same as** ME 449. 4 undergraduate hours. 5 graduate hours. Previously listed as EECS 449. **Prerequisite(s):** ECE 347.

ECE 451
Control Engineering 3 OR 4 hrs.
State-space representation of systems; realization theory; stability; performance; modern control design techniques, including: fuzzy, learning, adaptive and nonlinear control. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 451. **Prerequisite(s):** ECE 350.

ECE 452
Robotics: Algorithms and Control 3 OR 4 hrs.
Kinematic and dynamic modeling of robots; configuration space; motion planning algorithms; control of robots; sensors and perception; reasoning; mobile robots. 3 undergraduate hours. 4 graduate hours. **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
Electro-mechanical Energy Conversion 0 TO 4 hrs.
Electromagnetic forces and torque; magnetic circuits and transformers; DC machines; three-phase AC synchronous and induction machines; laboratory-demonstrations. Projects are required. 3 undergraduate hours. 4 graduate hours. Previously listed as EECS 458. **Prerequisite(s):** Grade of C or better in ECE 225.

ECE 465
Digital Systems Design 3 OR 4 hrs.
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 hours. 4 graduate hours. Previously listed as EECS 465. **Prerequisite(s):** Grade of C or better in CS 366, and a grade of C or better in ECE 265, and a grade of C or better in PHYS 142.

ECE 466
Computer Architecture 3 OR 4 hrs.
Design and analysis of high performance uniprocessors. Topics include arithmetic: multiplication, division, shifting; processor: pipelining, multiple function units. Instructure sets; memory: caches, modules; virtual machines. 3 undergraduate hours. 4 graduate hours. Credit is not given for ECE 466 if the student has credit for CS 466. Previously listed as EECS 466. **Prerequisite(s):** ECE 366.

ECE 467
Introduction to VLSI Design 0 TO 5 hrs.
MOS, CMOS circuits VLSI technology, CMOS circuit characterization and evaluation. Static and dynamic MOS circuits, system design, faults, testing, and symbolic layout. Laboratory. 4 undergraduate hours. 5 graduate hours. Previously listed as EECS 467. **Prerequisite(s):** ECE 340.

ECE 468
Analog and Mixed-Signal VLSI Design 0 TO 5 hrs.
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 hours. 5 graduate hours. Previously listed as EECS 468. **Prerequisite(s):** ECE 467.

ECE 469
CAD-Based Computer Design 3 OR 4 hrs.
Use of modern CAD tools for computer system design, hardware, description languages, simulation, design verification, synthesis. Design assignments, projects using CAD. 3 undergraduate hours. 4 graduate hours. Credit is not given for ECE 469 if the student has credit for CS 469. Previously listed as EECS 469. Extensive computer use required. **Prerequisite(s):** ECE 368 and ECE 465 and ECE 466.

ECE 491
Seminar 1 TO 4 hrs.
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
Special Problems 2 TO 4 hrs.
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
Engineering Orientation 1 hr.
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
Minority Engineering Freshman and Transfer Student Orientation 1 hr.
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
Cooperative Engineering Practice 0 hrs.
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
Engineering Law 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Senior standing or above.

ENGR 401
Engineering Management 3 OR 4 hrs.
Theory, strategy, and tactics of the use of project management, including project planning, matrix management concept, and team meetings. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** Senior standing or above.

ENGR 402
Intellectual Property Law 3 OR 4 hrs.
Patent, copyright, trade secret, mask work, and cybersquatting legal and procedural principles; protection for novel software, biotech inventions, and business methods; and trademark protection for domain names. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** Senior standing or above.

ENGR 403
Reliability Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** Senior standing or above.

ENGR 404
Entrepreneurship 3 hrs.
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 410
Wireless Data 3 OR 4 hrs.
Data communications, existing wireless data networks, planning, topology, performance, and operation. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online Web-based course. **Prerequisite(s):** A course in digital communications and an introductory course in wireless communications. Graduate or professional standing.

ENGR 420
Engineering for Success 1 hr.
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
Special Topics in Engineering 3 OR 4 hrs.
Course on multidisciplinary engineering topics that vary from term to term depending on current student and instructor interests. 3 undergraduate hours. 4 graduate hours. 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 101
Understanding Literature 3 hrs.
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
Introduction to Film 3 hrs.
Representative selections from a variety of periods and forms. Development of analytical skills in the reading of film. **Same as** MOVI 102.
• *Creative Arts course.*

ENGL 103
English and American Poetry 3 hrs.
Reading and analysis of a representative selection from a variety of periods and forms in poetry.
• *Creative Arts course.*

ENGL 104
English and American Drama 3 hrs.
Reading and analysis of representative selections from a variety of periods and forms in drama.
• *Creative Arts course.*

ENGL 105
English and American Fiction 3 hrs.
Reading and analysis of representative selections from a variety of periods and forms in fiction.
• *Creative Arts course.*

ENGL 106
English and American Prose 3 hrs.
Reading and analysis of representative selections from a variety of periods and forms of nonfiction prose.
• *Creative Arts course.*

ENGL 107
Introduction to Shakespeare 3 hrs.
Introductory survey of Shakespeare's major plays and poems.
• *Creative Arts, and Past course.*

ENGL 108
British Literature and British Culture 3 hrs.
Analysis of novels, plays, and poems from 1800 to the present that reflect the distinctive characteristics of British culture.
• *Creative Arts course.*

ENGL 109
American Literature and American Culture 3 hrs.
Analysis of interconnections between American literature and American culture. Content varies. May not be repeated for credit.
• *Creative Arts, and US Society course.*

ENGL 110
English and American Popular Genres 3 hrs.
Introduction to the textual analysis of pulp literature, film, television, advertising, and other popular discourses.
• *Creative Arts, and Individual and Society course.*

ENGL 111
Women and Literature 3 hrs.
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
Introduction to Native American Literatures 3 hrs.
An introduction to the oral and written literatures of American Indians. **Same as** NAST 112.
• *Creative Arts, and US Society course.*

ENGL 113
Introduction to Multiethnic Literatures in the United States 3 hrs.
An introduction to the literatures of racial and ethnic groups in the United States.
• *Creative Arts, and US Society course.*

ENGL 114
Introduction to Colonial and Postcolonial Literature 3 hrs.
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
Understanding the Bible as Literature 3 hrs.
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
Jewish American Literature of the 20th Century 3 hrs.
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
Introduction to Gender, Sexuality, and Literature 3 hrs.
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
Introduction to African American Literature, 1760-1910 3 hrs.
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
Introduction to African American Literature since 1910 3 hrs.
Comprehensive survey of African American literature from 1910 to the present. **Same as** AAST 111.
• *Creative Arts, and US Society course.*

ENGL 120
Film and Culture 3 hrs.
Analysis of representative works that reflect the relationship between cinema and its cultural context.
• *Creative Arts, and Individual and Society course.*

ENGL 121
Introduction to Moving Image Arts 3 hrs.
Examination and interpretation of moving image texts, such as film, television, and new digital media.
• *Creative Arts course.*

ENGL 122
Understanding Rhetoric 3 hrs.
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
Introduction to Asian American Literature 3 hrs.
Introductory survey of a wide range of Asian American cultural forms in their sociohistorical contexts. **Same as** ASAM 123.
• *Creative Arts, and US Society course.*

ENGL 125
Introduction to Asian American Studies 3 hrs.
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 US Society course.*

ENGL 150
Introduction to Academic Writing for Nonnative Speakers of English 3 hrs.
This preparatory class for nonnative speakers of English emphasizes the second-language challenges for writing presented by syntax (structure), semantics (meaning), and pragmatics (use). May be repeated to a maximum of 6 hours. No graduation credit given for ENGL 150, unless the department recommends a waiver of ENGL 160 based on the final course assessment. If a waiver is granted, student receives 3 hours of graduation credit for ENGL 150 and placement into ENGL 161. **Prerequisite(s):** Eligibility as determined by performance on the department placement test.

ENGL 152
Introduction to Academic Writing 3 hrs.
This preparatory class emphasizes academic reading and writing with a focus on argument, sentence-level grammar, and rhetorical effectiveness. May be repeated to a maximum of 6 hours. No graduation credit given for ENGL 152 unless the department recommends a waiver of ENGL 160 based on the final course assessment. If a waiver is granted, student receives 3 hours of graduation credit for ENGL 152 and placement into ENGL 161. **Prerequisite(s):** Eligibility as determined by performance on the department placement test.

ENGL 160
Academic Writing I: Writing in Academic and Public Contexts 3 hrs.
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
Academic Writing II: Writing for Inquiry and Research 3 hrs.
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 150, ENGL 152 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
Freshman Colloquium I 3 hrs.
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
Freshman Colloquium II 3 hrs.
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 200
Basic English Grammar 3 hrs.
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
Introduction to the Writing of Nonfiction Prose 3 hrs.
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
Writing for the Media 3 hrs.
Analysis of and practice in media writing, including news, feature, and opinion writing.
Prerequisite(s): ENGL 201 or the equivalent.

ENGL 210
Introduction to the Writing of Poetry 3 hrs.
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
Introduction to the Writing of Fiction 3 hrs.
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
Tutoring in the Writing Center 3 hrs.
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 hours.
Prerequisite(s): Grade of A or B in ENGL 150 or ENGL 160, and ENGL 161 (University Writing requirement) and consent of the Writing Center director.

ENGL 232
History of Film I: 1890 to World War II 3 hrs.
History of film from its beginnings in the 1890s up to World War II. **Same as** AH 232 and MOV1 232.

ENGL 233
History of Film II: World War II to the Present 3 hrs.
History of film from World War II to contemporary movements in world cinema. **Same as** AH 233 and MOV1 233.

ENGL 234
History of Television 3 hrs.
A critical history of television. **Same as** COMM 234 and MOV1 234. One additional hour each week for required screenings.

ENGL 240
Introduction to Literary Study and Critical Methods 3 hrs.
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
English Literature I: Beginnings to 1660 3 hrs.
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
English Literature II: 1660 to 1900 3 hrs.
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
American Literature: Beginnings to 1900 3 hrs.
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 English 101–123.

ENGL 260
Comparative Black Literatures 3 hrs.
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 US Society course.*

ENGL 261
Reading Black Women Writing 3 hrs.
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
Black Cultural Studies 3 hrs.
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 US Society course.*

ENGL 265
The Harlem Renaissance 3 hrs.
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 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 US Society course.*

ENGL 295
Latino Literary Studies 3 hrs.
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.
• *US Society course.*

ENGL 297
Studies in the Classical Tradition 3 hrs.
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
Studies in the Moving Image 3 hrs.
Study of a topic or movement in film and/or other media forms. **Same as** MOV1 302. May be repeated to a maximum of 6 hours. **Prerequisite(s):** ENGL 102 or consent of instructor.

ENGL 303
Studies in Poetry 3 hrs.
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
Studies in Drama 3 hrs.
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
Studies in Fiction 3 hrs.
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
Medieval English Literature 3 hrs.
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
Sixteenth- and Seventeenth-Century Literature 3 hrs.
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
Major Plays of Shakespeare 3 hrs.
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
Milton 3 hrs.
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
Restoration and Eighteenth-Century Literature 3 hrs.
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
British Romantic Literature 3 hrs.
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
Victorian Literature 3 hrs.
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
Modern British Literature: 1900–1945 3 hrs.
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
Postwar British Literature: 1945–1980 3 hrs.
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
British Literature: 1980–Present 3 hrs.
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
Early American Literature: 1630 to 1790 3 hrs.
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
American Literature: 1790 to 1865 3 hrs.
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
American Literature: 1865–1900 3 hrs.
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
Modern American Literature: 1900–1945 3 hrs.
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
Postwar American Literature: 1945–1980 3 hrs.
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
Contemporary American Literature: 1980–Present 3 hrs.
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
Asian American Literature 3 hrs.
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
Literatures in English Other than English and American 3 hrs.
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
Literature and Popular Culture 3 hrs.
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
Cultural and Media Studies 3 hrs.
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
Literature and Religion 3 hrs.
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
Topics in Black Art and Literature 3 hrs.
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
Colonial and Postcolonial Literature 3 hrs.
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
Ethnic American Literature 3 hrs.
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
Gender Theory 3 hrs.
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
Queer Theory 3 hrs.
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
Gender and Sexuality in Literature 3 hrs.
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
Disability Studies 3 hrs.
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
Literary Theory 3 hrs.
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
History of Literary Criticism 3 hrs.
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
Rhetorical Studies 3 hrs.
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
Rhetoric and Public Life 3 hrs.
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 398
English Honors Seminar 3 hrs.
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
Independent Study in English 1 TO 3 hrs.
Independent study. Topics for ENGL 399 should not duplicate work done in other English courses. May be repeated to a maximum of 3 hours. **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
History of the English Language 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Senior standing or above; or consent of the instructor. **Recommended background:** ENGL 200.

ENGL 401
Modern English 3 OR 4 hrs.
This is a course on the sound system, the lexicon, and syntax-semantics of modern American English taught from the linguistic perspective. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Senior standing or 9 hours of English or consent of the instructor. **Recommended background:** ENGL 200.

ENGL 402
Rhetoric 3 OR 4 hrs.
Intensive study of central topics in rhetorical theory in their historical depth. 3 undergraduate hours. 4 graduate hours. **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
Introduction to Old English 3 OR 4 hrs.
The elements of Old English grammar and readings from the literature of England before the Norman Conquest. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ENGL 240; and ENGL 241 or ENGL 242 or ENGL 243; or consent of the instructor.

ENGL 405
Topics in Old English Literature 3 OR 4 hrs.
Studies in the language and literature of pre-Conquest England. Content varies. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 403; or consent of the instructor.

ENGL 408
Topics in Medieval Literature 3 OR 4 hrs.
Topics in English literature from the period 450–1500. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Shakespeare 3 OR 4 hrs.
Study of a genre, topic, or period in Shakespeare's work. 3 undergraduate hours. 4 graduate hours. 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
Topics in Renaissance Literature and Culture 3 OR 4 hrs.
Study of a topic in English literature written between 1500 and 1700. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Restoration and Eighteenth-Century Literature and Culture 3 OR 4 hrs.
Focus on a particular topic or theme in British literature 1660–1780. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Romantic Literature and Culture 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Topics in Victorian Literature 3 OR 4 hrs.
Study of a major author, genre, or theme in the Victorian period. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Postcolonial and World Literature in English 3 OR 4 hrs.
Study of a major author, topic, movement, or genre within postcolonial and world literatures in English. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in American Literature and Culture to 1900 3 OR 4 hrs.
 This course analyzes selected topics in American literature and culture to 1900. 3 undergraduate hours. 4 graduate hours. 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
Topics in American Literature and Culture, 1900–Present 3 OR 4 hrs.
 Study of a specific topic relating American literature to society, culture, history, race, gender, ethnicity. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Literature and Culture, 1900–Present 3 OR 4 hrs.
 Study of a specific topic relating twentieth-century literature to society, culture, history, race, gender, ethnicity. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Literature and Culture 3 OR 4 hrs.
 Study of a specific topic relating literature to society, culture, history, race, gender, ethnicity. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Poetry and Poetic Theory 3 OR 4 hrs.
 Investigations into the nature of poetry. Discussions of issues, such as technical, theoretical, formal, and historical developments. Topics and readings vary. 3 undergraduate hours. 4 graduate hours. 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
Topics in Performance Studies 3 OR 4 hrs.
 In-depth study of a topic, movement, artist, or author in the field of drama and performance studies, broadly defined. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Fiction and Theories of Fiction 3 OR 4 hrs.
 Study of fiction related to a particular theory of fiction (Realism, Romance, Literary Naturalism, Narrative Theory, Fictional Poetics). Content varies. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s). **Prerequisite(s):** ENGL 305; and senior standing or above; or consent of the instructor.

ENGL 440
Topics in Cultural and Media Studies 3 OR 4 hrs.
 Study of a medium, genre, theme, period, influence, or problem in culture and cultural theory. Topics Vary. 3 undergraduate hours. 4 graduate hours. 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
Topics in Asian American Literature and Culture 3 OR 4 hrs.
 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 hours. 4 graduate hours. 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
Topics in Gender, Sexuality, and Literature 3 OR 4 hrs.
 Specific study of topics in gender and literature. Content varies. **Same as** GWS 443. 3 undergraduate hours. 4 graduate hours. 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
Topics in Theories of Gender and Sexuality 3 OR 4 hrs.
 Advanced study of topics related to theories of gender and sexuality. **Same as** GWS 444. 3 undergraduate hours. 4 graduate hours. 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
Topics in Disability Studies 3 OR 4 hrs.
 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 hours. 4 graduate hours. 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
Topics in Criticism and Theory 3 OR 4 hrs.
 Focus on a particular critical or theoretical topic, movement, tradition, or figure. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Rhetorical Studies 3 OR 4 hrs.
 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 hours. 4 graduate hours. 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
Introduction to the Teaching of English in Middle and Secondary Schools 3 OR 4 hrs.
 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 hours. 4 graduate hours. Fieldwork required. **Prerequisite(s):** Completion of the University Writing requirement; and sophomore standing or above.

ENGL 469
Women's Literary Traditions 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of the instructor.

ENGL 470
Topics in Multiethnic Literatures in the United States 3 OR 4 hrs.
 Topics in the literatures of American racial and ethnic groups. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Topics in Native American Literatures 3 OR 4 hrs.
 The history and development of literature by and about American Indians. Content varies. **Same as** NAST 471. 3 undergraduate hours. 4 graduate hours. 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
Women and Film 3 OR 4 hrs.
 Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. **Same as** AH 434 and GWS 472. 3 undergraduate hours. 4 graduate hours. **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
Topics in African American Literature 3 OR 4 hrs.
 African American literature and culture for students with significant background in the field. Topics vary. **Same as** AAST 490. 3 undergraduate hours. 4 graduate hours. 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
Topics in Popular Culture and Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
The Bible as Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Methods of Teaching English in Middle and Secondary Schools 3 OR 4 hrs.
Theory and practice; emphasis on current approaches to language and literature in multicultural settings. 3 undergraduate hours. 4 graduate hours. 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
Campus Writing Consultants 4 hrs.
Tutoring in the Writing Center. Students are required to consult with others on their writing. Emphasis on practice and theories 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
Studies in Language and Rhetoric 3 OR 4 hrs.
Study of a particular topic or movement in language or rhetoric. Content varies. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s). **Prerequisite(s):** Senior standing or above; or consent of the instructor.

ENGL 484
Studies in Language and Cognition 3 OR 4 hrs.
Examination of relationships among theories of language structure, cognition, and discourse, with applications of such theories to the writing process. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ENGL 401; or consent of the instructor.

ENGL 485
Studies in the English Language and Linguistics 3 OR 4 hrs.
Study of a topic, such as language diversity and literacy, theories of grammar, literacy in society, ethnicity and language. Content varies. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s). **Prerequisite(s):** Senior standing or 9 hours of English or consent of the instructor.

ENGL 486
The Teaching of Writing in Middle and Secondary Schools 3 OR 4 hrs.
Rhetoric and composition pedagogy. Study of a topic. Content varies. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Senior standing or 9 hours of English or consent of the instructor.

ENGL 489
The Teaching of Reading and Literature in Middle and Secondary Schools 3 OR 4 hrs.
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 hours. 4 graduate hours. Fieldwork required. **Prerequisite(s):** ENGL 459 and completion of the University Writing requirement; or consent of the instructor.

ENGL 490
Advanced Writing of Poetry 3 OR 4 hrs.
Advanced work on poetic techniques and practices; emphasis on analysis of student work, using published examples; particular attention to individual student development. 3 undergraduate hours. 4 graduate hours. 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
Advanced Writing of Fiction 3 OR 4 hrs.
Advanced practice; emphasis on analysis of student work and published examples. 3 undergraduate hours. 4 graduate hours. 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
Advanced Writing of Nonfiction Prose 3 OR 4 hrs.
Advanced practice in writing essays, articles, reviews, or other forms of nonfiction prose. Content varies. 3 undergraduate hours. 4 graduate hours. 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
Internship in Nonfiction Writing 3 hrs.
Individual projects in approved professional setting to practice writing skills at an advanced level. May be repeated up to 1 time(s). A maximum of 3 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 the equivalent, and an interview with the coordinator of the internship program prior to registration. Students will be registered in this course subject to approval by the coordinator. Resume and writing samples are required for the application process.

ENGL 494
Topics in the Teaching of English 1 TO 4 hrs.
Study of a topic in literature, composition, and/or pedagogy. The content varies with each offering. May be repeated to a maximum of 8 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

ENGL 495
Playwriting 3 OR 4 hrs.
The development of scripts for stage performance. **Same as** THTR 423. 3 undergraduate hours. 4 graduate hours. **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
Educational Practice with Seminar I 6 hrs.
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
Educational Practice with Seminar II 6 hrs.
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
English as a Second Language Composition I 4 hrs.
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):** Placement determined by Writing Placement Exam administered by the University Testing Service.

ESL 060
English as a Second Language Composition II 4 hrs.
Basic writing for ESL students. Focus on multiparagraph essays. Satisfactory/Unsatisfactory grading only. No graduation credit. **Prerequisite(s):** ESL 050 or placement by Writing Placement Exam administered by the University Testing Service.

ESL 401
Teaching Methods for International Teaching Assistants 1 TO 3 hrs.
Basic communication and presentation skills for international teaching assistants. The culture of the American college classroom. Satisfactory/Unsatisfactory grading only. No graduation credit.
Prerequisite(s): Score of 150 on the Test of Spoken English (TSE or Speak test) and consent of the instructor.

Entrepreneurship

ENTR 300
Survey of Entrepreneurship 3 hrs.
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
Family Business Management 3 hrs.
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 454
New Venture Formation 3 hrs.
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
Entrepreneurial Consulting 3 hrs.
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
Special Topics in Entrepreneurship 3 hrs.
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 hours. May be repeated if topics vary. **Prerequisite(s):** ENTR 454 and senior standing or above and approval of the department.

ENTR 499
Independent Study in Entrepreneurship 1 TO 3 hrs.
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
Introduction to Managerial Finance 3 hrs.
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 110 and MATH 160 and credit or concurrent registration in ECON 218.

FIN 310
Investments 3 hrs.
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
Managerial Finance 3 hrs.
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
Introduction to Urban Real Estate 3 hrs.
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
Independent Study 1 TO 3 hrs.
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
Portfolio Management 3 hrs.
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
Fixed Income Securities 3 hrs.
Valuation of fixed income securities, term structure estimation, and arbitrage trading with practical application using real data. **Prerequisite(s):** FIN 310.

FIN 416
Options and Futures Markets 3 hrs.
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
Introduction to Money and Banking 3 hrs.
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
Theory and Structure of Financial Markets 3 hrs.
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
International Finance 3 hrs.
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
Small Business Finance 3 hrs.
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
Property and Liability Insurance 3 OR 4 hrs.
Using property and liability insurance to manage risk. Topics may include fire, marine, consequential loss, crime, title, automobile, and workers' compensation insurance. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** FIN 300; or consent of the instructor.

FIN 466
Life and Health Insurance 3 OR 4 hrs.
Types, uses, and evaluation of life and health insurance. Economics of the industry. Regulation and taxation. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** FIN 300; or consent of the instructor.

FIN 472
Real Estate Finance 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Introduction to Risk Management 3 hrs.
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
Special Topics in Finance 1 TO 4 hrs.
An intensive study of a selected topic in finance. Topics vary by sections and by term. 1 to 3 undergraduate hours. 2 to 4 graduate hours. 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
Competitive Strategy 4 hrs.
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
Elementary French I 4 hrs.
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
Elementary French II 4 hrs.
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
Intermediate French I 4 hrs.
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
Intermediate French II 4 hrs.
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
Intensive Elementary French 4 hrs.
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
African and Caribbean Francophone Literature in Translation 3 hrs.
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
Totalitarianism, Writing and Cinema 3 hrs.
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
French Literature in Translation 3 hrs.
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
Introduction to the Study of French Literature and Culture 3 hrs.
Techniques and methods of literary and cultural analysis in French, with emphasis on close reading and writing of critical papers. **Prerequisite(s):** Proficiency in French or consent of the instructor. **Recommended background:** Sufficient command of French to read texts and follow lectures.
• *Creative Arts, and World Cultures course.*

FR 201
Introduction to French Literature I 3 hrs.
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
Introduction to French Literature II 3 hrs.
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
Conversation and Composition I 3 hrs.
Development of skills in spoken and written French; conversational practice based on practical situations; advanced grammar review; free composition. **Prerequisite(s):** FR 104 or 4 years of high school French. Not open to native speakers, except with approval of the department.

FR 232
Conversation and Composition II 3 hrs.
Continuation of FR 231. **Prerequisite(s):** FR 231. Not open to native speakers except with approval of the department.

FR 296
Independent Study 1 TO 3 hrs.
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 hours. **Prerequisite(s):** Approval of the department.

FR 301
Topics in French and Francophone Literature 3 hrs.
Intensive study of a period, genre, or author within French or Francophone literature, with emphasis on literary analysis and critical writing. **Prerequisite(s):** FR 201 and FR 202 or consent of the instructor.

FR 302
Topics in French and Francophone Culture 3 hrs.
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. **Prerequisite(s):** FR 201 and FR 202 or consent of the instructor.

FR 307
Performing French Theater 3 hrs.
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
Oral and Written French I 3 hrs.
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
Oral and Written French II 3 hrs.
Continuation of FR 333. **Prerequisite(s):** FR 333 or consent of the instructor.

FR 370
Writing and Research in the Major 1 hr.
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
French Abroad 0 TO 17 hrs.
Lectures, seminars, and practical work in French language, literature, and civilization in France. May be repeated to a maximum of 34 hours. **Prerequisite(s):** Junior standing, approval of the department, FR 201, and any two from FR 202, FR 231, FR 232.

FR 390
Senior Seminar: Topics in Research and Writing 3 hrs.
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 401
Reading French for Graduate Students 4 hrs.
Grammar, vocabulary, general and specialized reading practice; for graduate students wishing to fulfill French reading requirements for the PhD. Credit may not be applied toward a graduate degree. Taught in English. **Prerequisite(s):** Graduate standing and consent of the instructor. **Recommended background:** Some prior experience with elementary French.

FR 413
French Feminist and Gender Theory 3 OR 4 hrs.
An introduction to French theories of gender, including feminisms influenced by Lacanian psychoanalysis, political philosophy, and multicultural studies. **Same as** GWS 413. 3 undergraduate hours. 4 graduate hours. 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
French Literature of the Middle Ages 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 416
Topics in Sixteenth-Century French Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 417
Topics in Seventeenth-Century French Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Topics in Eighteenth-Century French Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 419
Topics in Nineteenth-Century French Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 420
Topics in Twentieth-Century French Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 422
Francophone Novel 3 OR 4 hrs.
Intensive analysis of a topic in Francophone literature. Scope includes Quebec, Africa, the Antilles, and French novelists outside of France. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 301 or consent of the instructor.

FR 433
Advanced Oral and Written French 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** FR 334 or consent of the instructor.

FR 440
Topics in French and Francophone Cinema 3 OR 4 hrs.
This course will examine a selection of French and Francophone films chosen around a period or theme or genre. Topics will vary. 3 undergraduate hours. 4 graduate hour. 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
Foundations of Second Language Teaching 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Teaching Second Language Literacy and Cultural Awareness 3 OR 4 hrs.
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 hours. 4 graduate hours. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

FR 461
French Civilization I: Medieval and Renaissance 3 OR 4 hrs.
Interdisciplinary approach to French civilization of the Middle Ages and the Renaissance including history, literature, the beaux-arts, and philosophy. 3 undergraduate hours. 4 graduate hours. Lectures and discussion in French. **Prerequisite(s):** FR 302 or consent of the instructor.

FR 462
French Civilization II: Seventeenth and Eighteenth Centuries 3 OR 4 hrs.
Interdisciplinary approach to French civilization of the seventeenth and eighteenth centuries including history, literature, the beaux-arts, and philosophy. 3 undergraduate hours. 4 graduate hours. Lectures and discussion in French. **Prerequisite(s):** FR 302 or consent of the instructor.

FR 463
French Civilization III: Nineteenth and Twentieth Centuries 3 OR 4 hrs.
An interdisciplinary approach to French civilization of the nineteenth and twentieth centuries, including history, literature, beaux-arts, and philosophy. 3 undergraduate hours. 4 graduate hours. Lectures and discussion in French. **Prerequisite(s):** FR 302 or consent of the instructor.

FR 464
Topics in French Civilization 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** FR 302 or consent of the instructor.

FR 470
Educational Practice with Seminar I 6 hrs.
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
Educational Practice with Seminar II 6 hrs.

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
Special Topics 3 OR 4 hrs.

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 hours. 4 graduate hours. 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
Independent Study 1 TO 4 hrs.

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**
Gender in Everyday Life 3 hrs.

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 US Society course.*

GWS 102
Global Perspectives on Women and Gender 3 hrs.

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
Economics of Gender 3 hrs.

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
Women and Literature 3 hrs.

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
Introduction to Gender, Sexuality, and Literature 3 hrs.

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
Study of Gender, Class, and Political Issues in German Texts 3 hrs.

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
From the Convent to the Streets: Latin American Women Writers in Translation 3 hrs.

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
Introductory Topics in Gender and Women's Studies 1 TO 3 hrs.

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 hours. Students may register in more than one section per term.

GWS 202
Comparative Social Movements 3 hrs.

International social movements involving issues of women, gender, and sexuality. Content varies. May be repeated to a maximum of 6 hours. **Prerequisite(s):** GWS 101 or GWS 102 or consent of the instructor.

GWS 203
Sexuality and Community: Lesbians, Gay Men, and Contemporary Society 3 hrs.

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 211
Gender and Sexual Orientation in Greek and Roman Literature 3 hrs.

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
Sex and Gender in World Cultures 3 hrs.

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
Gender and Society 3 hrs.

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 US Society course.*

GWS 232
Sex Roles: Moral and Political Issues 3 hrs.

Philosophical inquiry into controversies surrounding the changing roles of men and women. **Same as** PHIL 232.

GWS 238
Biology of Women 3 hrs.

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
Women in Russian Literature 3 hrs.

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
Sexuality in America: Historical Perspectives 3 hrs.

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 US Society course.*

GWS 259
The History of American Women 3 hrs.

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 US Society course.*

GWS 261
Reading Black Women Writing 3 hrs.

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 272
Race, Gender and Sexuality 3 hrs.

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 US Society course.*

GWS 275
Gender in Latin America 3 hrs.

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
Latinas in the United States 3 hrs.
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
Topics in the Study of Sexuality 3 hrs.
Exploration of a topic concerning the subject of sexuality. May be repeated to a maximum of 9 hours. Students may register in more than one section per term.

GWS 292
History and Theories of Feminism 3 hrs.
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
Topics in Gender and Women's Studies 1 TO 3 hrs.
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 hours. **Prerequisite(s):** Consent of the instructor or one gender and women's studies course.

GWS 304
Male-Female Communication 3 hrs.
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
Gender and Sexuality in Early Christianity and Judaism 3 hrs.
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
Psychology of Women and Gender 3 hrs.
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):** PSCH 242 or consent of the instructor.

GWS 356
Constitutional Law: Women, Gender, and Privacy 3 hrs.
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
Gender Theory 3 hrs.
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
Queer Theory 3 hrs.
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
Gender and Sexuality in Literature 3 hrs.
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
Feminism and Social Change 3 hrs.
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 hours. **Prerequisite(s):** GWS 101 and GWS 102 and junior standing; or consent of the instructor.

GWS 394
Intermediate Topics in Gender and Women's Studies 3 hrs.
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 hours. 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
Independent Study/Research 1 TO 3 hrs.
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 hours. Students may register in more than one section per term. **Prerequisite(s):** Junior standing and consent of the instructor.

GWS 403
Culture and Sexuality: Cultural History of Same-Sex Relations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Junior standing or consent of the instructor.

GWS 406
Politics of Race, Gender, and Class 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** AAST 100 or GWS 102 or GWS 101; or graduate or professional standing; or consent of the instructor.

GWS 412
Women and the Environment 3 OR 4 hrs.
Women's place in the built environment; the role of gender in environmental experience, including women as users, designers, planners, policy makers, and critics. **Same as** ARCH 412. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Advanced undergraduate or graduate standing, or consent of the instructor.

GWS 413
French Feminist and Gender Theory 3 OR 4 hrs.
An introduction to French theories of gender, including feminisms influenced by Lacanian psychoanalysis, political philosophy, and multicultural studies. **Same as** FR 413. 3 undergraduate hours. 4 graduate hours. 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
Public Health Aspects of Sexuality and Women's Health 3 hrs.
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
Gender, Crime, and Justice 3 OR 4 hrs.
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** CRJ 424. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CRJ 101 and CRJ 220; or consent of the instructor.

GWS 425
Sociology of Gender 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or gender and women's studies courses or consent of the instructor.

GWS 439
Gender and Cultural Production 3 OR 4 hrs.
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. 3 undergraduate hours. 4 graduate hours. 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
Introduction to Maternal and Child Health 3 hrs.
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
Topics in Gender, Sexuality, and Literature 3 OR 4 hrs.
Specific study of topics in gender and literature. Content varies. **Same as** ENGL 443. 3 undergraduate hours. 4 graduate hours. 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
Topics in Theories of Gender and Sexuality 3 OR 4 hrs.
Advanced study of topics related to theories of gender and sexuality. **Same as** ENGL 444. 3 undergraduate hours. 4 graduate hours. 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
Women and Mental Health Nursing 3 hrs.
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
AIDS, Politics, and Culture 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Women's Literary Traditions 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ENGL 361 or ENGL 362 or ENGL 363; and senior standing or above; or consent of instructor.

GWS 472
Women and Film 3 OR 4 hrs.
Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. **Same as** AH 434 and ENGL 472. 3 undergraduate hours. 4 graduate hours. **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
Women in Chinese History 3 OR 4 hrs.
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 hours. 4 graduate hours. **Recommended background:** Previous course work in Chinese history or women's studies.

GWS 484
Topics in the History of Women 3 OR 4 hrs.
Specific topics are announced each term. **Same as** HIST 484. 3 undergraduate hours. 4 graduate hours. 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
Gender and Politics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** POLS 190 and one 200-level course in political theory; or consent of the instructor.

GWS 490
Advanced Topics in the Study of Sexuality 3 OR 4 hrs.
Special study at an advanced level of a topic concerning sexuality. 3 undergraduate hours. 4 graduate hours. 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
Advanced Topics in Gender and Women's Studies 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Senior or graduate standing.

Geography
GEOG 100
Concepts in Geography 3 hrs.
Geographic concepts drawn from the areas of cultural, urban/economic, physical, and regional geography.
• *Individual and Society, and World Cultures course.*

GEOG 101
World Regional Geography 3 hrs.
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
Environmental Geography 3 hrs.
Survey of the state of the global environment, the measurement of its condition, and prospects for the future.
• *Individual and Society course.*

GEOG 151
Introduction to Cultural Geography 4 hrs.
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
Introduction to Economic Geography 3 hrs.
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
The Making of Maps 4 hrs.
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
Geography of the United States and Canada 3 hrs.
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 US Society course.*

GEOG 203
Human Geography of Latin America including the Caribbean Region 3 hrs.
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
Geography of East, Southeast, and South Asia 3 hrs.
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
Geography of the CIS (formerly the USSR) 3 hrs.
Physical and cultural landscapes; regional analysis of resources and economy; the geographic basis of the area's role in world affairs.

GEOG 207
Ancient Civilizations of Mexico and Central America 3 hrs.
Analysis and interpretation of the archaeological evidence on the process of development of native civilization in the Meso-American 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
Chicago: An Urban Geography 3 hrs.
 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 US Society course.*

GEOG 215
A Global Geography of Cities 3 hrs.
 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
Resource Problems in the United States 3 hrs.
 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 US Society course.*

GEOG 251
Mind and Environment 3 hrs.
 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
Ethnography of Southeast Asia 3 hrs.
 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
History of Cartography 3 hrs.
 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
Cartographic Techniques 4 hrs.
 Introduction to the practice of cartographic display of areal data. Topics include map characteristics, symbolization, and map preparation.

GEOG 278
An Applications Approach to Computer Cartography 4 hrs.
 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
Areal Organization of Economic Activity 3 hrs.
 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
Elements of Spatial Analysis 3 hrs.
 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
Special Studies in Geography 1 TO 3 hrs.
 Readings and reports in selected fields chosen in consultation with the instructor. **Prerequisite(s):** Consent of the instructor.

GEOG 399
Undergraduate Thesis 1 TO 3 hrs.
 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 adviser. Completed application form must be submitted to the director of undergraduate studies prior to enrollment. Open only to departmental majors.

GEOG 401
Topics in Regional Geography 3 OR 4 hrs.
 Geographic analysis of cultural and environmental systems of a political, economic, or climatic region of the world as defined by the instructor. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 6 hours. **Prerequisite(s):** One upper-division course in each of the areas of skills, systematic, and regional/urban geography.

GEOG 418
Ethnographic and Qualitative Research Methods 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** Junior standing or above.

GEOG 425
Field Techniques in Archaeology 4 hrs.
 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 hours. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 426 or GEOG 426.

GEOG 426
Laboratory Techniques in Archaeology 4 hrs.
 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 hours. **Prerequisite(s):** ANTH 102 or consent of the instructor. **Recommended:** Concurrent registration in ANTH 425 or GEOG 425.

GEOG 429
Archaeological Methods 3 OR 4 hrs.
 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. **Same as** ANTH 429. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). Students may register for more than one section per term.

GEOG 431
Advanced Landform Geography 3 OR 4 hrs.
 Genesis of surficial landforms and processes that sculpt them. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** GEOG 131 or EAES 101 or consent of the instructor.

GEOG 432
Geomorphology and Archaeology 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** GEOG 131 or EAES 101 or consent of the instructor.

GEOG 441
Topics in Resource Management and Policy 3 OR 4 hrs.
 Selected topics dealing with environmental problems at local, regional, or global levels. Topics vary. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 6 hours. **Prerequisite(s):** GEOG 341 or GEOG 361 or consent of the instructor.

GEOG 442
Environmental Hazards and Risks 3 OR 4 hrs.
 Environmental risks of natural and technological hazards; causes and consequences to people; social theories of risks; coping mechanisms used to reduce risk. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** GEOG 251 or GEOG 441 or consent of the instructor.

GEOG 444
Management of Solid and Hazardous Wastes 3 hrs.
 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 EOHHS 472.

GEOG 453
Seminar in Cultural Ecology 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 101 or GEOG 151 or consent of the instructor.

GEOG 455**Quantitative Methods 3 OR 4 hrs.**

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 hours. 4 graduate hours.

Extensive computer use required. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

GEOG 461**Location and Land Use 3 OR 4 hrs.**

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 hours. 4 graduate hours. **Prerequisite(s):** GEOG 361 or consent of the instructor.

GEOG 464**Geographic Modeling of Transportation Systems 3 OR 4 hrs.**

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 hours. 4 graduate hours.

Prerequisite(s): GEOG 100 and GEOG 161.

GEOG 470**Educational Practice with Seminar I 6 hrs.**

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**Educational Practice with Seminar II 6 hrs.**

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**Thematic Cartography 4 hrs.**

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**Remote Sensing of the Environment 4 hrs.**

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**Mapping with Microcomputers 4 hrs.**

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**Geographic Information Systems I 4 hrs.**

Components and performance properties of geographic information systems. Geographic hierarchies 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**Geographic Information Systems II 4 hrs.**

Application of raster (or grid) based geographic information systems to the spatial analysis of landscapes. **Same as ANTH 482.**

GEOG 483**Geographic Information Systems III 4 hrs.**

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**Qualitative Methods in Geographic Research 3 OR 4 hrs.**

Use of qualitative methods in geographic research. Research design choices, data collection and analysis, writing. Applications in environmental and urban geography. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** GEOG 481, or Geography major or minor, or consent of instructor.

GEOG 485**Computer Cartography 4 hrs.**

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**Analysis of Geographic Patterns 4 hrs.**

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**History and Philosophy of Geography 3 OR 4 hrs.**

The philosophy of geography, its theory, and research techniques. Analysis of bibliographic sources; criticism of papers on assigned topics. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Declared major or minor in Geography; or consent of the instructor.

GEOG 496**Internship 1 TO 4 hrs.**

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 hours. 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 adviser, head of the department, or the director of internship programs.

Germanic Studies**GER 100 Introduction to Germanic Cultures and Literatures 3 hrs.**

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**Elementary German I 4 hrs.**

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 or GER 111. One additional hour each week in the language laboratory. Equivalent to GER 111.

Prerequisite(s): For students who have not studied German or placement as determined by test score.

GER 102**Elementary German II 4 hrs.**

Continuation of GER 101 or GER 111. 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 or GER 112. One additional hour each week in the language laboratory. Equivalent to GER 112.

Prerequisite(s): Grade of C or better in GER 101 or grade of C or better in GER 111; or appropriate score on the department placement test.

GER 103**Intermediate German I 4 hrs.**

Continuation of GER 102 or GER 106 or GER 112. 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 or GER 113. One additional hour each week in the language laboratory. Equivalent to GER 113.

Prerequisite(s): Grade of C or better in GER 102, or grade of C or better in GER 106, or grade of C or better in GER 112, or appropriate score on the department placement test.

GER 104
Intermediate German II 4 hrs.
Continuation of GER 103 or GER 113. 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 or GER 114. One additional hour each week in the language laboratory. Equivalent to GER 114.
Prerequisite(s): Grade of C or better in GER 103, or grade of C or better in GER 113; or appropriate score on the department placement test.

GER 106
Intensive Elementary German 8 hrs.
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 or GER 111 or GER 112. Two additional hours each week in the language laboratory. Equivalent to GER 101 and GER 102 (or GER 111 and GER 112) combined. **Prerequisite(s):** For students who have not studied German or placement as determined by test score.

GER 107
Intensive Intermediate German 8 hrs.
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 or GER 113 or GER 114. Two additional hours each week in the language laboratory. Equivalent to GER 103 and GER 104 (or GER 113 and GER 114) combined. **Prerequisite(s):** Grade of C or better in GER 102, or grade of C or better in GER 106, or grade of C or better in GER 112, 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, or grade of B or better in GER 112.

GER 111
Elementary German I: Computer-Aided Self-Paced Instruction 4 hrs.
This beginning language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Credit is not given for GER 111 if the student has credit for GER 101 or GER 106. Extensive computer use required. Equivalent to GER 101. **Prerequisite(s):** For students who have not studied German or placement as determined by test score. Intended for self-motivated, self-disciplined students.

GER 112
Elementary German II: Computer-Aided Self-Paced Instruction 4 hrs.
This beginning language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Credit is not given for GER 112 if the student has credit for GER 102 or GER 106. Extensive computer use required. Equivalent to GER 102. **Prerequisite(s):** Grade of C or better in GER 101, or grade of C or better in GER 111, or appropriate score on the department placement test. Intended for self-motivated, self-disciplined students.

GER 113
Intermediate German I: Computer-Aided Self-Paced Instruction 4 hrs.
This intermediate language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Credit is not given for GER 113 if the student has credit for GER 103 or GER 107. Extensive computer use required. Equivalent to GER 103. **Prerequisite(s):** Grade of C or better in GER 102, or grade of C or better in GER 112, or appropriate score on the department placement test. Intended for self-motivated, self-disciplined students.

GER 114
Intermediate German II: Computer-Aided Self-Paced Instruction 4 hrs.
This intermediate language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Credit is not given for GER 114 if the student has credit for GER 104 or GER 107. Extensive computer use required. Equivalent to GER 104. **Prerequisite(s):** Grade of C or better in GER 103 or grade of C or better in GER 113 or appropriate score on the department placement test. Intended for self-motivated, self-disciplined students.

GER 120
Study of Gender, Class, and Political Issues in German Texts 3 hrs.
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
Minority Perspectives in the Germanic Context 3 hrs.
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
Introduction to Yiddish Culture and Literature 3 hrs.
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
Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature and Film. 3 hrs.
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. **Prerequisite(s):** Consent of the instructor.
• *Past, and World Cultures course.*

GER 161
German Language Studies 3 TO 16 hrs.
A four-week summer course taken in a German-speaking country. May be repeated to a maximum of 16 hours.
Prerequisite(s): Approval of the department.

GER 211
Advanced German I 3 hrs.
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 GER 114 or the equivalent.

GER 212
Advanced German II 3 hrs.
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
German Conversation and Pronunciation 3 hrs.
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 GER 114 or the equivalent.

GER 215
Business German 3 hrs.
Practical vocabulary and oral and written communication for business and industry. Area: language or culture.
Prerequisite(s): GER 104 or GER 107 or GER 114 or the equivalent.

GER 217
German Cinema 3 hrs.
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
Opera in Germanic Cultures: From Mozart to Berg 3 hrs.
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
Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture 3 hrs.
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.
• *Creative Arts, and Past course.*

GER 240
Classical German Thought from Kant to Nietzsche 3 hrs.
A survey of classical German thought from Kant through Nietzsche. Lectures, discussion, and readings in English. Area: Literature/culture.
• *Individual and Society course.*

GER 290
Introduction to Germanic Literature 3 hrs.
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
Germanic Study Abroad 0 TO 17 hrs.
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
Writing in the Study of German 1 hr.
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
Practice in German Language Skills 3 hrs.
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
Contemporary Germanic Culture and Society 3 hrs.
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 316
Periods of Germanic Literature and Culture 3 hrs.
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. Area: literature/culture. **Prerequisite(s):** For majors and minors in the Department of Germanic Studies only: GER 211 or the equivalent.

GER 318
Topics in Germanic Literatures and Cultures 3 hrs.
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
Topics in Genres in Germanic Studies 3 hrs.
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
Introduction to the Theory and Practice of German Cultural Studies 3 hrs.
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
Honors Project 3 hrs.
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
Independent Study 1 TO 3 hrs.
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
German for Reading Knowledge 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Advanced Practice in German Language Skills 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Yiddish for Reading Knowledge 3 OR 4 hrs.
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 hours. 4 graduate hours. Does not satisfy the graduation requirement in foreign languages. **Prerequisite(s):** GER 211; or consent of the instructor or graduate standing.

GER 407
Theoretical and Research Foundations of Communicative Language Teaching 3 OR 4 hrs.
Focuses on theory and practice of communicative language teaching and explores current approaches of task-based instruction, testing, and media-enhanced instruction. 3 undergraduate hours. 4 graduate hours. 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
Introduction to Translation Theory 3 OR 4 hrs.
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 hours. 4 graduate hours. Area: language. **Prerequisite(s):** GER 212 or the equivalent, or graduate standing.

GER 411
The City as Cultural Focus 3 OR 4 hrs.
Interdisciplinary study of urban culture with focus on German-speaking countries. 3 undergraduate hours. 4 graduate hours. 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
Germanic Cultural Studies I: Genres 3 OR 4 hrs.
Concentration on a genre, with stress on cultural analysis and theoretical inquiry. 3 undergraduate hours. 4 graduate hours. 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
Germanic Cultural Studies II: Authors, Movements, Periods 3 OR 4 hrs.
Critical analysis of texts in the biographical, social, cultural, and historical context. 3 undergraduate hours. 4 graduate hours. 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
Germanic Cultural Studies III: Themes 3 OR 4 hrs.
Explores themes in German-speaking societies, such as the family, xenophobia, crime, and science, with stress on literary analysis and interpretation. 3 undergraduate hours. 4 graduate hours. 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
Classical German Philosophy 3 OR 4 hrs.
Introduction to German philosophy and intellectual history through the critical analysis of major authors and texts. 3 undergraduate hours. 4 graduate hours. Area: literature/culture. **Prerequisite(s):** One 300-level course in Germanic Studies or consent of the instructor.

GER 437
Contemporary Germanic Literature 3 OR 4 hrs.
Literature of the German-speaking world since World War II, with emphasis on current issues and recent critical approaches to literature. 3 undergraduate hours. 4 graduate hours. 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
The Faust Legend 3 OR 4 hrs.
Discusses Goethe's Faust within the context of European and non-European literatures. Traces the origins, significance, and interpretation of the Faust figure. 3 undergraduate hours. 4 graduate hours. Area: literature/culture. **Prerequisite(s):** GER 212 or the equivalent or graduate standing or consent of the instructor.

GER 439
Gender and Cultural Production 3 OR 4 hrs.
Issues of gender representation and gender politics examined through the use of theoretical texts or through the study of women authors. **Same as** GWS 439. 3 undergraduate hours. 4 graduate hours. 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
Foundations of Second Language Teaching 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Junior standing or above; and consent of the instructor and three courses at the 200- and 300-levels.

GER 449
Teaching Second Language Literacy and Cultural Awareness 3 OR 4 hrs.
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 hours. 4 graduate hours. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

GER 450
Business Operations in German-Speaking Countries 3 OR 4 hrs.
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 hours. 4 graduate hours. Knowledge of German not required.

GER 461
German Abroad 0 TO 17 hrs.
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 hours. **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
Exploring the Field of Germanic Studies 3 OR 4 hrs.
Team-taught. Research in film studies, gender studies, Jewish culture, minorities, literary studies, intellectual history, applied linguistics in Germanic Studies. Each unit taught by a different faculty member from Department of Germanic Studies. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Undergraduate students must obtain approval of the department.

GER 480
Hegel Studies 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Computer-Assisted Language Learning 3 OR 4 hrs.
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 hours. 4 graduate hours. **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.

GER 492
Internship in International Business 0 TO 12 hrs.
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
Internship Seminar: Business 1 TO 4 hrs.
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 Educational Practice with Seminar I 6 hrs.

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 Educational Practice with Seminar II 6 hrs.

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 GPPA Special Topics in Medicine 1 hr.

Exploration of the interplay of scientific foundations of medicine, the skills of the physician-patient interaction, and the necessary use of emerging medical technologies. Satisfactory/Unsatisfactory grading only. Restricted to Honors students.

Health Information Management

HIM 310 Introduction to the Healthcare System 3 hrs.

Orientation to the medical record profession and to healthcare facilities. History, classification, accreditation, organization, functional roles of individual departments, and external pressures are examined.

Prerequisite(s): Enrollment in the BS in Health Information Management program or consent of the instructor.

HIM 317 Principles of Health Information Management 4 hrs.

Introduction to the data elements that comprise the patient's health record. Includes data collection, processing and records management. Lab practice.

HIM 319 Alternative Health Records 4 hrs.

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 Technical Affiliation 2 hrs.

Orientation to health information management, practice via assignments in affiliated institution's medical record departments.

Prerequisite(s): HIM 317.

HIM 329 Legal Aspects of Health Information Management 3 hrs.

Principles of law, confidentiality, and ethics, and their application in the healthcare field with particular reference to health records.

HIM 332 Coding and Classification Systems 3 hrs.

Introduction to nomenclatures and classification systems with an emphasis on the ICD-9-CM coding system. Other selected systems also discussed.

Prerequisite(s): BHIS 405.

HIM 333 Coding and Reimbursement Systems 4 hrs.

ICD-9-CM coding for reimbursement, CPT-4/HCPCS coding, data quality management, and management reporting. **Prerequisite(s):** BHIS 405 and HIM 332.

HIM 337 Analysis of Healthcare Data 4 hrs.

Healthcare and research statistics, including data display. Collection, evaluation, and interpretation of healthcare data will be covered. Includes a laboratory section.

HIM 343 Quality Evaluation and Management 3 hrs.

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 Human Resources Management 4 hrs.

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 Systems Analysis 3 hrs.

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 Health Information Research 3 hrs.

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 Current Issues in Health Information Management 2 hrs.

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 381 Financial Management 2 hrs.

Basic accounting and financial principles, including introduction to healthcare reimbursement, investment, productivity measurement, cost accounting, and departmental budgeting. **Prerequisite(s):** BHIS 480.

HIM 384 Clinical Practicum 5 hrs.

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 Independent Study 1 TO 5 hrs.

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 hours. 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.

Hebrew

HEB 101 Elementary Hebrew I 4 hrs.

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 Elementary Hebrew II 4 hrs.

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 Intermediate Hebrew I 4 hrs.

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 Intermediate Hebrew II 4 hrs.

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 Elementary Hindi- Urdu I 4 hrs.

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
Elementary Hindi-Urdu II 4 hrs.
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
Intermediate Hindi-Urdu I 4 hrs.
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
Intermediate Hindi-Urdu II 4 hrs.
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
Independent Study 1 TO 4 hrs.
Independent study under faculty direction for qualified students with special interests and needs. May be repeated to a maximum of 8 hours. **Prerequisite(s):** Consent of the instructor.

History
HIST 100
Western Civilization to 1648 3 hrs.
Introduction to the development of Western civilization and the modern world: ancient medieval and early modern history.
• *Past course.*

HIST 101
Western Civilization since 1648 3 hrs.
Introduction to the development of Western civilization in the early modern and modern world.
• *Individual and Society, and Past course.*

HIST 103
American Civilization to the Late Nineteenth Century 3 hrs.
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 US Society course.*

HIST 104
American Civilization since the Late Nineteenth Century 3 hrs.
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 US Society course.*

HIST 106
The World since 1400 3 hrs.
Overview of historical developments creating an interconnected world. Explorations, rise of capitalism, European colonialism, nationalism and development, the predicaments of postcolonial societies.
• *Past, and World Cultures course.*

HIST 109
East Asian Civilization: China 3 hrs.
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
East Asian Civilization: Japan 3 hrs.
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
Topics in World History 3 hrs.
Introduction to history through global events and the historical development of diverse cultural, religious, social, economic, and political institutions. May not be repeated for credit.
• *Past course.*

HIST 115
Introduction to North American Indian History 3 hrs.
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, US Society, and World Cultures course.*

HIST 116
Freshman Seminar: Special Topics 3 hrs.
An introduction to the study of history through special topics and the use of primary source materials.
• *Past course.*

HIST 117
Understanding the Holocaust 3 hrs.
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
African Civilization 3 hrs.
Introduction to history and historical methods through the study of African history. **Same as** AAST 141.
• *Past, and World Cultures course.*

HIST 150
Catholicism in U.S. History 3 hrs.
The Catholic experience in the United States from its colonial origins to the present. **Same as** CST 150 and RELS 150.
• *US Society course.*

HIST 161
Introduction to Latin American History 3 hrs.
Introduction to major themes in Latin American history from pre-Colombian society and the European conquest to the present. **Same as** LALS 161.
• *Past, and World Cultures course.*

HIST 177
Middle Eastern Civilization 3 hrs.
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
The Ancient World: Greece 3 hrs.
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
The Ancient World: Rome 3 hrs.
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
Greek Art and Archaeology 3 hrs.
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.
• *Creative Arts, and Past course.*

HIST 205
Roman Art and Archaeology 3 hrs.
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
The Earlier Middle Ages 3 hrs.
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
The Later Middle Ages 3 hrs.
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
The Byzantine Empire 3 hrs.
The East Roman Empire from its creation by Diocletian and Constantine to its conquest by the Ottoman Turks. **Same as** GKM 209.

HIST 211**Europe:
1500 to 1715** 3 hrs.

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**Europe:
1715 to 1815** 3 hrs.

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**Europe:
1815 to 1914** 3 hrs.

Social, economic, and political history of Europe from the Congress of Vienna to World War I.

• *Individual and Society, and Past course.*

HIST 214**Europe:
1914 to 1945** 3 hrs.

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**Military History:
War since
Napoleon** 3 hrs.

The doctrine, technology, strategy, and tactics of military and naval conflict in the nineteenth and twentieth centuries.

HIST 220**Modern Germany
since 1848** 3 hrs.

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**England to 1689** 3 hrs.

England from the Celtic immigration to the Glorious Revolution.

• *Individual and Society, and Past course.*

HIST 223**Modern Britain
since 1689** 3 hrs.

History of Britain from the Glorious Revolution to the present.

• *Individual and Society, and Past course.*

HIST 224**France:
1500 to 1715** 3 hrs.

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**France:
1715 to 1848** 3 hrs.

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**France since
1848** 3 hrs.

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**Spain:
1469 to 1808** 3 hrs.

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**Spain since 1808** 3 hrs.

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**Africa and its
Diasporas** 3 hrs.

This course on the African diaspora critically analyzes 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**History of East
Central Europe
and the Balkans** 3 hrs.

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**History of Poland** 3 hrs.

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**Russia to 1812** 3 hrs.

Surveys the major political, social, economic, and cultural developments from the beginnings of Russian history to the Napoleonic invasion.

HIST 237**Russia since 1812** 3 hrs.

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**Precolonial Africa** 3 hrs.

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**Modern Africa** 3 hrs.

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**African American
History to 1877** 3 hrs.

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 US Society course.*

HIST 248**African American
History since
1877** 3 hrs.

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 US Society course.*

HIST 250**American Ethnic
History** 3 hrs.

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**History of Race
Relations in
America** 3 hrs.

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**Sexuality in
America:
Historical
Perspectives** 3 hrs.

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 US Society course.*

HIST 253**The Worker in
American Life** 3 hrs.

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**Topics in Urban
History** 3 hrs.

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**History of
Chicago** 3 hrs.

Development from frontier outpost to postindustrial metropolis; economic, social, political, and cultural changes and institutions; suburbanization and deindustrialization.

• *Past, and US Society course.*

HIST 256**Religious
Experiences in
American History** 3 hrs.

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**History of Illinois** 3 hrs.

Social, economic, and political history of Illinois with attention to the frontier, Lincoln, Civil War, industrialization, agriculture, and Chicago.

HIST 258
Topics in Intellectual History 3 hrs.
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
The History of American Women 3 hrs.
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 US Society course.*

HIST 261
Latin America to 1850 3 hrs.
A survey of the pre-Columbian and early national periods. **Same as** LALS 261.
• *Past, and World Cultures course.*

HIST 262
Latin America since 1850 3 hrs.
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
African American Intellectual History 3 hrs.
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
Mexico: 1400 to 1850 3 hrs.
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
Mexico since 1850 3 hrs.
Revolution and evolution in the making of modern Mexican society. **Same as** LALS 266.
• *Past, and World Cultures course.*

HIST 271
Late Imperial China: 1500 to 1911 3 hrs.
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
China since 1911 3 hrs.
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
Japan to 1600 3 hrs.
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
Japan since 1600 3 hrs.
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
History of South Asia 3 hrs.
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 277
The Middle East to 1258 3 hrs.
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
The Middle East since 1258 3 hrs.
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
Topics in Social History 3 hrs.
Specific topics are announced each term. May be repeated if topics vary.

HIST 283
Topics on Environmental History 3 hrs.
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
Cultural History of Modern Greece: 1453 to the Present 3 hrs.
Survey of the cultural history of modern Greece, from the end of the Byzantine Empire in 1453 to the end of the present. **Same as** GKM 285.
• *Past course.*

HIST 286
Modern Greek Cities: Historical-Ethnographic Studies 3 hrs.
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. **Same as** GKM 286.
• *Past course.*

HIST 288
History of Modern Puerto Rico 3 hrs.
Survey of political and socioeconomic history from 1868 to the present. **Same as** LALS 288.

HIST 290
Mexican American History 3 hrs.
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
American Business History 3 hrs.
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
History and Theories of Feminism 3 hrs.
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
Topics in Catholic History 3 hrs.
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
Introduction to the History of Science 3 hrs.
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
History Methods Colloquium 3 hrs.
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
Teaching History and the Related Disciplines 3 hrs.
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
Topics in Catholic History and Culture 3 hrs.
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
Honors Project 3 hrs.
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.
Prerequisite(s): History major with junior or senior standing and 15 hours in history at the 200- or 400-level; 3.50 grade point average in history and 3.25 overall grade point average; and consent of the instructor prior to registration.

HIST 399
Independent Study: Special Topics 3 hrs.
Selected topics for individual study. May be repeated to a maximum of 9 hours. 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
Topics in Ancient History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 401
Topics in Greek History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** CL 401. 3 undergraduate hours. 4 graduate hours. May be repeated. **Prerequisite(s):** 3 hours of history or classics.

HIST 402
Topics in Roman History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** CL 402. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history or classics.

HIST 403
Culture and Sexuality: Cultural History of Same-Sex Relations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Junior standing or consent of the instructor.

HIST 404
Roman Law and the Civil Law Tradition 3 OR 4 hrs.
Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. **Same as** CL 404 and CRJ 404. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CRJ 200 or CL 203 or HIST 203 or consent of the instructor.

HIST 405
Herodotus and His World 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Sophomore standing or above.

HIST 406
Topics in Medieval History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Early Modern European History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 410
Topics in Modern European History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 415
American Indian Ethnohistory 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Topics in German History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Teaching the Social Sciences 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 9 hours of credit in the social sciences and approval of the instructor.

HIST 421
Topics in British and Irish History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in French History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Italian History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 433
Topics in Eastern European History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** SLAV 433. 3 undergraduate hours. 4 graduate hours. 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
Topics in Russian History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in African History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** AAST 441. 3 undergraduate hours. 4 graduate hours. May be repeated. **Prerequisite(s):** 3 hours of African history, African American studies, or consent of the instructor.

HIST 445
History of Islam in the African World 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

HIST 451
Topics in Colonial American History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Revolutionary and Early National United States History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 453
Topics in Nineteenth-Century United States History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 454
Topics in Twentieth-Century United States History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Southern History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 456
Topics in the History of Communications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.
Recommended background: At least one history course at the 100-level.

HIST 461
Topics in Latin American History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** LALS 461. 3 undergraduate hours. 4 graduate hours. 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
AIDS, Politics, and Culture 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Issues and Events in Twentieth-Century China 3 OR 4 hrs.
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 hours. 4 graduate hours. **Recommended background:** Previous course work in Chinese history at the 100- or 200-level.

HIST 473
Topics in East Asian History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** ASST 473. 3 undergraduate hours. 4 graduate hours. 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
Educational Practice with Seminar I 6 hrs.
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
Educational Practice with Seminar II 6 hrs.
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
Topics in Middle Eastern History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 478
Women in Chinese History 3 OR 4 hrs.
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 hours. 4 graduate hours. **Recommended background:** Previous course work in Chinese history or women's studies.

HIST 479
Culture and Colonialism in South Asia 3 OR 4 hrs.
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 hours. 4 graduate hours.

HIST 480
Topics in Economic History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Social History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 482
Topics in Migration History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 483
Topics in the History of Public Policy 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 484
Topics in the History of Women 3 OR 4 hrs.
Specific topics are announced each term. **Same as** GWS 484. 3 undergraduate hours. 4 graduate hours. 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
Topics in African and African American History 3 OR 4 hrs.
African and/or African American history for students with significant background in the field. Topics vary. **Same as** AAST 481. 3 undergraduate hours. 4 graduate hours. 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
Topics in the History of Science 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 credit hours of history.

HIST 487
Topics in the History of Sexuality 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Urban History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 489
Topics in Military History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 490
Topics in Diplomatic History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 491
Topics in Constitutional History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 492
Topics in Intellectual History 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 493
Topics in Historiography 3 OR 4 hrs.
Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** 3 hours of history.

HIST 494
Topics in Political History 3 OR 4 hrs.
 Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term.
Prerequisite(s): 3 hours of history.

HIST 495
Topics in Religious History 3 OR 4 hrs.
 Specific topics are announced each term. **Same as** RELS 495. 3 undergraduate hours. 4 graduate hours. 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
Topics in Race, Ethnic and Minority History 3 OR 4 hrs.
 Specific topics are announced each term. **Same as** AAST 496. 3 undergraduate hours. 4 graduate hours. May be repeated.
Prerequisite(s): 3 hours of history or consent of the instructor.

HIST 497
Topics in Cultural History 3 OR 4 hrs.
 Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Topics in Quantitative Methods 3 OR 4 hrs.
 Specific topics are announced each term. 3 undergraduate hours. 4 graduate hours. 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
Freshman Orientation Seminar 0 hrs.
 A series of noncredit orientation meetings for incoming students. Satisfactory/Unsatisfactory grading only. Restricted to Honors students.

HON 120
Honors Core in Understanding the Individual and Society and Understanding the Past 3 hours.
 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 hours. Restricted to Honors students.
 • *Individual and Society, and Past course.*

HON 121
Honors Core in Understanding the Individual and Society and Understanding the Creative Arts 3 hours.
 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 hours. Restricted to Honors students.
 • *Individual and Society, and Creative Arts course.*

HON 122
Honors Core in Understanding the Individual and Society and Exploring World Cultures 3 hours.
 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 hours. Restricted to Honors students.
 • *Individual and Society, and World Cultures course.*

HON 123
Honors Core in Understanding the Individual and Society and Understanding U.S. Society 3 hours.
 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 hours. Restricted to Honors students.
 • *Individual and Society, and US Society course.*

HON 124
Honors Core in Understanding the Past and Understanding the Creative Arts 3 hours.
 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 hours. Restricted to Honors students.
 • *Past, and Creative Arts course.*

HON 125
Honors Core in Understanding the Past and Exploring World Cultures 3 hours.
 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 hours. Restricted to Honors students.
 • *Past, and World Cultures course.*

HON 126
Honors Core in Understanding the Past and Understanding U.S. Society 3 hours.
 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 hours. Restricted to Honors students.
 • *Past, and US Society course.*

HON 127
Honors Core in Understanding the Creative Arts and Exploring World Cultures 3 hours.
 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 hours. Restricted to Honors students.
 • *Creative Arts, and World Cultures course.*

HON 128
Honors Core in Understanding the Creative Arts and Understanding U.S. Society 3 hours.
 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 hours. Restricted to Honors students.
 • *Creative Arts, and US Society course.*

HON 129
Honors Core in Exploring World Cultures and Understanding U.S. Society 3 hours.
 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 hours. Restricted to Honors students.
 • *World Cultures, and US Society course.*

HON 140
Honors Core in Understanding the Individual and Society 3 hours.
 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 hours. Restricted to Honors students.
 • *Individual and Society course.*

HON 141
Honors Core in Understanding the Past 3 hours.
 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 hours. Restricted to Honors students.
 • *Past course.*

HON 142
Honors Core in Understanding the Creative Arts 3 hours.
 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 hours. Restricted to Honors students.
 • *Creative Arts course.*

HON 143
Honors Core in Exploring World Cultures 3 hours.
 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 hours. Restricted to Honors students.
 • *World Cultures course.*

HON 144
Honors Core in Understanding U.S. Society 3 hours.
 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 hours. Restricted to Honors students.
 • *US Society course.*

HON 200
Honors Lectures 0 hrs.
 A series of special noncredit lectures arranged for honors students. Satisfactory/Unsatisfactory grading only. Restricted to Honors students.

HON 201
Honors Seminar 1 hr.
 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
Honors Tutoring 0 hrs.
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
Honors Activity 0 hrs.
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
Honors Research 0 hrs.
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 401
Advanced Honors Seminar 3 hrs.
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 hours. 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
Foods 3 hrs.
The principles of food components, component interactions, food selection, preparation and service.

HN 196
Nutrition 2 hrs.
Provides a foundation in the basic principles of human nutrition in maintaining and promoting health through good dietary choices.

HN 200
Nutritional Assessment 3 hrs.
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
Culture and Food 2 hrs.
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
Culture and Food Lab 1 hr.
Practical application of accurately preparing, presenting, and modifying cultural specific foods. **Prerequisite(s):** Consent of the instructor.

HN 296
Nutrition and Physical Activity 3 hrs.
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
Science of Foods 3 hrs.
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
Nutrition Education 4 hrs.
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
Human Nutrition and Metabolism 3 hrs.
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
Nutrition Science I 3 hrs.
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 MVSC 251.

HN 309
Nutrition Science II 3 hrs.
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
Nutrition during the Life cycle 3 hrs.
Principles of nutrition through the life cycle, including weight management. **Prerequisite(s):** HN 307; or HN 308 and HN 309. Concurrent registration in HN 310 or consent of the instructor.

HN 312
Nutrition During the Life Cycle Practicum 2 hrs.
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 320
Clinical Nutrition I 4 hrs.
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
Clinical Practice I 2 hrs.
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
Quantity Food Production 3 hrs.
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
Food Service Management 2 hrs.
Application of management principles to food service system functions. **Prerequisite(s):** HN 330.

HN 335
Food Service Practice 4 hrs.
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
Seminar 1 hr.
Oral presentation of current topics and issues in human nutrition. Guest speakers included. **Prerequisite(s):** HN 308 and HN 309.

HN 341
The Research Process 2 hrs.
Discussion and application of research methods in development of a practice-oriented research proposal. Written and oral communication included. **Prerequisite(s):** HN 310 and SOC 201 or the equivalent, or consent of the instructor.

HN 366
Genetics, Nutrition, and Health 2 hrs.
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
Independent Undergraduate Study in Human Nutrition 1 TO 4 hrs.
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
Principles of Delivering Public Health Nutrition Services 3 hrs.
Assessment, planning, and evaluation of community nutrition programs using a systems approach.

HN 420
Clinical Nutrition II 2 hrs.
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
Clinical Practice II 4 hrs.
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
Clinical Nutrition III 2 hrs.
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
Clinical Practice III 5 hrs.
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
Professional Practice 6 hrs.
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
Field Study 2 hrs.
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
Special Topics in Engineering Graphics 1 TO 4 hrs.
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
Financial Engineering 3 hrs.
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
Dynamic Systems and Control 3 hrs.
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 341
Ergonomics and Human Factors 3 hrs.
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. **Prerequisite(s):** Credit or concurrent registration in IE 342.

IE 342
Probability and Statistics for Engineers 3 hrs.
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
Regression Applications and Forecasting in Engineering 3 hrs.
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
Work Productivity Analysis 4 hrs.
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
Manufacturing Process Principles 3 hrs.
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
Undergraduate Research 3 hrs.
Research under close supervision of a faculty member. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Consent of the head of the department.

IE 396
Senior Design I 4 hrs.
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
Mechatronics I 0 TO 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** Senior standing or above or approval of the department.

IE 412
Dynamic Systems Analysis I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 308.

IE 446
Quality Control and Reliability 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** IE 342.

IE 461
Safety Engineering 3 OR 4 hrs.
Accident losses; standards and codes; hazards control; accident investigations; mechanical injuries; heat, pressure, and electrical hazards; fires and explosions; toxic materials and radiation; vibration and noise; course project. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IE 342.

IE 463
Plant Layout and Materials Handling 3 OR 4 hrs.
Facilities design functions, computer-aided plant layout, facility location, warehouse layout Minimax location, deterministic and probabilistic conveyor models. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IE 471.

IE 464
Virtual Automation 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** IE 201; and CS 107 or CS 108.

IE 465
Manufacturing Information Systems 0 TO 4 hrs.
Design and implementation of supervisory control and data acquisition systems; manufacturing systems controller and communication networks. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Senior or graduate standing, or consent of the instructor; and familiarity with computer programming.

IE 466
Production Planning and Inventory Control 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** IE 345 and IE 471.

IE 467
Industrial Systems Simulation 3 OR 4 hrs.
 The solution of industrial problems by means of computer simulation. Simulation strategies. Simulation perspectives. In-depth study of some specific simulation programming languages, with projects. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CS 107 or CS 108.

IE 468
Virtual Manufacturing 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** CS 107 or CS 108.

IE 471
Operations Research I 3 OR 4 hrs.
 Introduction to operations research, formulation of linear programming problems, simplex methods, duality theory, sensitivity analysis, network models, and integer linear programming. 3 undergraduate hours. 4 graduate hours. No graduate credit for industrial engineering majors. **Prerequisite(s):** MATH 210.

IE 472
Operations Research II 3 OR 4 hrs.
 Nonlinear programming problems, unconstrained optimization search techniques. Kuhn-Tucker theorems, quadratic programming, separable programming, Markov chain, queueing theory, and dynamic programming. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IE 342 and IE 471 or graduate standing.

IE 494
Special Topics in Industrial Engineering 3 OR 4 hrs.
 Particular topics vary from term to term depending on the interests of the students and the specialties of the instructor. 3 undergraduate hours. 4 graduate hours. May be repeated. **Prerequisite(s):** Consent of the instructor.

Information and Decision Sciences
IDS 200
Introduction to Management Information Systems 4 hrs.
 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
Introduction to Business Programming 3 hrs.
 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
Business Statistics I 4 hrs.
 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
Business Project Management 3 hrs.
 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
Internet Applications in Business 3 hrs.
 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
Business Analysis Using Spreadsheets 3 hrs.
 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
Operations Management 3 hrs.
 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
Business Statistics II 3 hrs.
 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
Advanced Business Programming Using Visual Tools 0 TO 4 hrs.
 Visual extended business language capabilities, including creating and using controls, menus and dialogs, objects and instances, mouse events, graphics, file-system controls. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IDS 201 or a programming course in mathematics or computer science, or consent of the instructor.

IDS 401
Business Object Programming Using Java 0 TO 4 hrs.
 Basic concepts in object-oriented programming, such as objects, classes, class inheritance and interfaces, data abstraction and encapsulation, polymorphism, and dynamic binding. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IDS 201 or the equivalent.

IDS 403
Information Security 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** IDS 200 or the equivalent.

IDS 405
Business Systems Analysis and Design 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** IDS 201.

IDS 406
Business Systems Design Project 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** Senior standing or above and knowledge of programming and databases; or consent of the instructor. **Recommended background:** Familiarity with systems analysis and design (IDS 405).

IDS 410
Business Database Technology 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** IDS 201.

IDS 412
Distributed Business Systems 3 OR 4 hrs.
 Organizational aspects and underlying concepts of distributed business systems, decentralization versus centralization issues, costs of distributed computing, and performance evaluation measures. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** IDS 201 or IDS 330; and credit or concurrent registration in IDS 410.

IDS 413
Internet Technology and Management 3 hrs.
 The technologies of World Wide Web development. Topics include: TCP/IP, HTTP, HTML, HTML authoring, XML, Perl, ASP programming, J2EE, 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 and IDS 410.

IDS 420
Business Systems Simulation 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): Credit or concurrent registration in IDS 355; or credit or concurrent registration in IDS 331 or the equivalent.

IDS 422
Knowledge Management Systems 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 410 or consent of the instructor.

IDS 435
Optimization Models and Methods 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 355; and MATH 205 or the equivalent. Business Administration students must have declared a major.

IDS 437
Stochastic Methods 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 355 and MATH 205.

IDS 446
Decision Analysis 3 OR 4 hrs.
 Prior and posterior distributions; conjugate priors; value of information; applications to decision making in business. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): IDS 371.

IDS 450
Advanced Operations Management 0 TO 4 hrs.
 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 hours. 4 graduate hours. Extensive computer use required.
Prerequisite(s): IDS 355 or the equivalent. Business Administration students must have declared a major.

IDS 454
Introduction to Supply Chain Management 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 355.

IDS 460
Survey Sampling: Theory and Methods 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 371.

IDS 462
Statistical Software for Business Applications 3 OR 4 hrs.
 Statistical software in business applications and data mining. SAS and other packages such as SPSS, MatLab, Maple, Splus, B34S, SCA. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): IDS 371 or consent of the instructor.

IDS 470
Multivariate Analysis 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 371; and MATH 205 or MATH 310 or MATH 320.

IDS 472
Business Data Mining 3 OR 4 hrs.
 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 hours. 4 graduate hours. Credit is not given for IDS 472 if the student has credit for IDS 572.
Prerequisite(s): IDS 371 or the equivalent.

IDS 473
Introduction to Risk Management 3 hrs.
 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
Quality and Productivity Improvement Using Statistical Methods 3 OR 4 hrs.
 Directed experimentation for quality and productivity improvement, quality surveillance, design, and analysis of two-level factorial experiments and multilevel experiments, data transformation. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): IDS 371 or consent of the instructor.

IDS 475
Database Accounting Systems 3 OR 4 hrs.
 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 hours. 4 graduate hours. Extensive computer use required.
Prerequisite(s): ACTG 111 and IDS 100.

IDS 476
Business Forecasting Using Time Series Methods 3 OR 4 hrs.
 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 hours. 4 graduate hours.
Prerequisite(s): IDS 371 or ECON 346 or consent of the instructor.

IDS 478
Regression Analysis 3 OR 4 hrs.
 Data collection and exploration; model building; variable least squares; residual analysis; variable selection; multicollinearity; ridge regression; nonlinear regression; nonparametric regression. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): IDS 371.

IDS 494
Topics in Information and Decision Sciences 3 OR 4 hrs.
 Topics vary; selected readings; case analysis. 3 undergraduate hours. 4 graduate hours. 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
Competitive Strategy 4 hrs.
 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
Independent Study in Information and Decision Sciences 1 TO 3 hrs.
 Intensive study of selected topics determined in consultation with the instructor and department head. May be repeated to a maximum of 9 hours. 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
Java Programming for Information Technology 3 hrs.
 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
Introduction to Computer Configuration and Operating System Software 3 hrs.

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
Web and Multimedia Technology 3 hrs.

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
Networks and Distributed Computing Technology 3 hrs.

Introduction to the use of computers on a network. Installation and configuring of networking components: firewalls, nameserver, and gateways. Use of both wired and wireless networks. **Prerequisite(s):** IT 201.

IT 302
Database Administration and Installation 3 hrs.

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 Studies in the Arts

ISA 100
Freshman Seminar: Introduction to Interdisciplinary Practice in the Arts 1 hr.

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
Introduction to Interdisciplinary Arts 3 hrs.

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 hours. **Prerequisite(s):** ENGL 161.

ISA 300
Interdisciplinary Topics 3 hrs.

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 hours. **Prerequisite(s):** ENGL 161 and junior standing or above.

ISA 400
Advanced Topics in Interdisciplinary Arts 3 OR 4 hrs.

Exploration of advanced topics in interdisciplinary arts which include architecture, art and design, art history, music, and theatre. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s).

Italian

ITAL 101
Elementary Italian I 4 hrs.

Practice in listening and speaking. Development of writing and reading skills. Basic grammar. One additional hour each week in the language laboratory. For students without credit in Italian.

ITAL 102
Elementary Italian II 4 hrs.

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
Intermediate Italian I 4 hrs.

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
Intermediate Italian II 4 hrs.

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 110
Intensive Elementary Italian 4 hrs.

Equivalent to Italian 101 and 102. This accelerated course covers the first two semesters of Italian in one semester and is designed for students with previous experience in Italian, Spanish, French, or another Romance language. Credit is not given for ITAL 110 if the student has credit in ITAL 101 or ITAL 102; or has already taken ITAL 103 or ITAL 104. Credit is not given if the student has completed any 200-, 300-, 400-, or 500-level Italian courses, or has placed into Italian 103 or above. Four additional hours each week of Laboratory, using the Student Activity manual and the companion CDs. **Prerequisite(s):** Two or more years of high school Italian, Spanish, French, or another romance language, native speaker of Spanish or another romance language, or appropriate score on the placement test administered by the Italian department.

ITAL 180
Italian Cinema 3 hrs.

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
Italian Literature in Translation I 3 hrs.

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
The Divine Comedy 3 hrs.

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
Totalitarianism, Writing and Cinema 3 hrs.

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
Conversational Italian 3 hrs.
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
Italian Composition and Conversation 3 hrs.
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
Introduction to Reading and Analysis of Italian Literary Texts 3 hrs.
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
Italian Culture and Civilization 3 hrs.
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
Rapid Italian Language for Spanish Speakers 4 hrs.
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
Advanced Italian Composition and Conversation 3 hrs.
Intensive training in oral and written expression based on the study of contemporary Italian texts. Grammar review.
Prerequisite(s): ITAL 201.

ITAL 305
Advanced Italian Grammar 3 hrs.
Systematic study of syntax and morphology. **Prerequisite(s):** ITAL 201 or consent of the instructor.

ITAL 310
Early Italian Literature and Society 3 hrs.
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
Modern Italian Literature and Society 3 hrs.
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
Writing and Research in the Major 1 hr.
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
Independent Study 1 TO 3 hrs.
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 hours. Students may register in more than one section per term.
Prerequisite(s): Approval of the department.

ITAL 411
Literary Forms in Early Renaissance 3 OR 4 hrs.
The development of Epic Poetry (Pulci, Boiardo, Ariosto) within the literary, political, and social context (Machiavelli and Castiglione). 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): ITAL 310 or consent of the instructor.

ITAL 412
Literary Forms in Late Renaissance and Baroque 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): ITAL 310 or consent of the instructor.

ITAL 421
Modern Italian Literature II 3 OR 4 hrs.
From Romanticism to Decadentism: emphasis on the work of Leopardi and Manzoni; analysis of poems by Carducci, Pascoli, D'Annunzio, Gozzano. 3 undergraduate hours. 4 graduate hours.
Prerequisite(s): ITAL 311 or consent of the instructor.

ITAL 422
Contemporary Italian Literature 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): ITAL 322 or consent of the instructor.

ITAL 450
Divina Commedia I 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): ITAL 310 or consent of the instructor.

ITAL 451
Divina Commedia II 3 OR 4 hrs.
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 hours. 4 graduate hours.
Prerequisite(s): ITAL 310 or consent of the instructor.

ITAL 461
Educational Practice with Seminar I 6 hrs.
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
Educational Practice with Seminar II 6 hrs.
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
Special Topics 3 OR 4 hrs.
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 hours. 4 graduate hours. 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
Elementary Japanese I 4 hrs.
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
Elementary Japanese II 4 hrs.
Continuation of JPN 101. Four additional half hours each week in the language laboratory.
Prerequisite(s): JPN 101.

JPN 103
Intermediate Japanese I 4 hrs.
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
Intermediate Japanese II 4 hrs.
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
Independent Study 1 TO 4 hrs.
Individual study under faculty direction for qualified students with special interests and needs. May be repeated to a maximum of 8 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

JPN 215
Japanese Language and Culture 3 hrs.
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**
Introduction to Jewish Studies: Literature and Society 3 hrs.

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 US Society course.*

JST 102
Introduction to Jewish Studies: Religion and Culture 3 hrs.

Overview of Jewish socio-economic and political structures in historical context. Primary focus on contemporary social issues, such as immigration, assimilation, intermarriage, and anti-Semitism.

- *Individual and Society, and US Society course.*

JST 115
Understanding the Bible as Literature 3 hrs.

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
Jewish American Literature of the 20th Century 3 hrs.

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
Understanding the Holocaust 3 hrs.

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
Minority Perspectives in the Germanic Context 3 hrs.

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
Introduction to Yiddish Culture and Literature 3 hrs.

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
Hebrew Bible 3 hrs.

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
Diaspora, Exile, Genocide: Aspects of the European Jewish Experience in Literature and Film 3 hrs.

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. **Prerequisite(s):** Consent of the instructor.

- *Past, and World Cultures course.*

JST 141
Philosophy and Revelation: Jewish and Christian Perspectives 3 hrs.

Introduction to philosophical ways of addressing the claim that a book (the Bible, the Quran) comes from God. Texts by Immanuel Kant, Moses Mendelssohn, and Soren Kierkegaard, among others. **Same as PHIL 141 and RELS 141.**

- *Individual and Society, and World Cultures course.*

JST 225
Topics in Muslim-Jewish Relations 3 hrs.

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 CL 225 and RELS 225.**

JST 235
Introduction to Jewish Thought I 3 hrs.

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 CL 235 and RELS 235.** **Prerequisite(s):** Sophomore standing or above.

JST 242
The History of Jewish Biblical Interpretation 3 hrs.

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
Politics and Government of the Middle East 3 hrs.

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
Prophets in Judaism and Islam 3 hrs.

A cross-cultural survey of prophets. Texts include the Hebrew Bible, the Quran, and Islamic and Jewish exegetical material. **Same as CL 254 and RELS 254.**

- *Past course.*

JST 294
Topics in Jewish Studies 3 hrs.

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 hours.

JST 311
Gender and Sexuality in Early Christianity and Judaism 3 hrs.

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
Topics in Jewish Studies 3 hrs.

Selected topics in Jewish culture and history. May be repeated to a maximum of 9 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

JST 478
The Bible as Literature 3 OR 4 hrs.

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 hours. 4 graduate hours.

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
Topics in Jewish Studies 3 OR 4 hrs.

Selected topics in Jewish studies. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 6 hours if topics vary. **Prerequisite(s):** JST 101 or JST 102 or consent of the instructor.

Latin**LAT 101**
Elementary Latin I 4 hrs.

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
Elementary Latin II 4 hrs.

Continues LAT 101. Grammar and reading. One additional hour of computer-assisted instruction each week. **Prerequisite(s):** LAT 101 or the equivalent.

LAT 103
Intermediate Latin I 4 hrs.

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
Intermediate Latin II 4 hrs.

Completes study of Latin at intermediate level. Latin poetry as well as prose, and grammar. **Prerequisite(s):** LAT 103 or the equivalent.

LAT 299
Independent Reading 3 hrs.
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
Independent Reading 3 OR 4 hrs.
Individual study under faculty direction. 3 undergraduate hours. 4 graduate hours. 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
Introduction to Latin American Studies 3 hrs.
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, class in Latin America.
• *World Cultures course.*

LALS 102
Introduction to Latino Studies 3 hrs.
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.
• *US Society, and World Cultures course.*

LALS 103
Introduction to Latino Urban Studies 3 hrs.
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.
• *US Society course.*

LALS 104
Introduction to Puerto Rican Studies 3 hrs.
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
Introduction to Mexican Studies 3 hrs.
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
Indigenous Culture Change in Latin America 3 hrs.
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
Introduction to Latin American and Latino Cultural Studies 3 hrs.
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.
• *US Society, and World Cultures course.*

LALS 127
Latin American Music 3 hrs.
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.
• *World Cultures course.*

LALS 130
Introduction to Comparative Politics 3 hrs.
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
Introduction to Latin American History 3 hrs.
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
From the Convent to the Streets: Latin American Women Writers in Translation 3 hrs.
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
Expository Writing on Latin American and Latino Topics 1 hr.
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
Human Geography of Latin America including the Caribbean Region 3 hrs.
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
Racial and Ethnic Groups 3 hrs.
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 US Society course.*

LALS 227
Spain: 1469 to 1808 3 hrs.
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
Spain since 1808 3 hrs.
Loss of the colonies, liquidation of the Ancien Regime, national integration, sociopolitical polarization, the Civil War, and the Franco regime. **Same as** HIST 228.
• *Individual and Society, and Past course.*

LALS 233
Latinos in Chicago 3 hrs.
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
Pre-Columbian Art of South America 3 hrs.
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
Pre-Columbian Art of Mesoamerica 3 hrs.
The art and architecture of prehispanic 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
Government and Politics of Latin America 3 hrs.
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
History of Race Relations in America 3 hrs.
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
South American Indians 3 hrs.
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
European-Indigenous Interaction in Latin America 3 hrs.
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
Archaeology of North America 3 hrs.
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
Ancient Civilizations of Mexico and Central America 3 hrs.
Analysis and interpretation of the archaeological evidence on the process of development of native civilization in the Meso-American 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
Ancient Civilizations of South America 3 hrs.
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
Latin America to 1850 3 hrs.
A survey of the pre-Columbian and early national periods. **Same as** HIST 261.
• *Past, and World Cultures course.*

LALS 262
Latin America since 1850 3 hrs.
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
Latin American Colonial Art 3 hrs.
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
Mexico: 1400 to 1850 3 hrs.
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
Mexico since 1850 3 hrs.
Revolution and evolution in the making of modern Mexican society. **Same as** HIST 266.
• *Past, and World Cultures course.*

LALS 270
Ethnography of Meso-America 3 hrs.
Survey of the contemporary indigenous cultures of Meso-America, 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
Brazil: A Multiethnic Society 3 hrs.
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
Gender in Latin America 3 hrs.
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
Latinas in the United States 3 hrs.
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
Issues of Race, Class, and Gender among Latinos 3 hrs.
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
Latin American/Latino Film Studies 3 hrs.
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
Latinos and Politics 3 hrs.
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.
• *US Society course.*

LALS 286
Issues in Latino Identity 3 hrs.
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
History of Modern Puerto Rico 3 hrs.
Survey of political and socioeconomic history from 1868 to the present. **Same as** HIST 288.

LALS 290
Mexican American History 3 hrs.
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
Latino Literary Studies 3 hrs.
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.
• *US Society course.*

LALS 299
Independent Study 3 TO 6 hrs.
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 hours. 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
Research Methods in Latin America and Latino Studies 3 hrs.
An examination of various research methods used in Latin America 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
Research Workshop in Latin American and Latino Studies 3 hrs.
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
Seminar: Political Problems of Developing Societies 3 hrs.
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
Latinos and Latin Americans in U.S. Public Discourse 3 hrs.
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
Social Movements in Latin America 3 hrs.
The different ways in which different groups have used non-traditional 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
Race and Citizenship in the Americas 3 hrs.
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
Latino Social Movements in the United States 3 hrs.
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
Seminar in Latin American Studies 3 hrs.
 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 hours. **Prerequisite(s):** Two 200-level LALS courses; junior standing or above or consent of the instructor.

LALS 395
Seminar in Latino Studies 3 hrs.
 Diverse aspects of the U.S. Latino experience at more theoretical and advanced levels. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Two 200-level LALS courses; junior standing or above or consent of the instructor.

LALS 409
Ancient Maya Writing, Language, and Culture 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

LALS 423
Andean Prehistory 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 228 or ANTH 269 or consent of the instructor.

LALS 427
Studies in Language Policy and Cultural Identity 3 OR 4 hrs.
 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 hours. 4 graduate hours. Taught in English. **Prerequisite(s):** Junior standing or above. Reading and writing knowledge of Spanish.

LALS 461
Topics in Latin American History 3 OR 4 hrs.
 Specific topics are announced each term. **Same as** HIST 461. 3 undergraduate hours. 4 graduate hours. 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
Indians of the Andes and the Amazon 3 OR 4 hrs.
 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 hours. 4 graduate hours. **Prerequisite(s):** ANTH 213 or consent of the instructor.

LALS 491
Interdisciplinary Seminar in Latin American Studies 3 OR 4 hrs.
 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 hours. 4 graduate hours. 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
Interdisciplinary Seminar in Latino Studies 3 OR 4 hrs.
 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 hours. 4 graduate hours. May be repeated if topics vary. **Prerequisite(s):** Any two 200-level Latin American and Latino Studies courses or consent of the instructor.

LALS 499
Advanced Independent Study 1 TO 4 hrs.
 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 hours. 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
Freshman Seminar: Introduction to University Study 1 hr.
 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
Success in the City 1 hr.
 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
Cooperative Education: Off Campus 0 hrs.
 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
Liberal Arts and Sciences Study Abroad 0 TO 18 hrs.
 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 301
Seminar in International Studies 3 hrs.
 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. **Prerequisite(s):** Junior standing or consent of the instructor.

LAS 320
Introduction to Legal Analysis 2 hrs.
 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; 3.50 grade point average; English 160 and 161 with grade of C or better; and consent of instructor.

LAS 490
International Student Exchange Program 0 TO 18 hrs.
 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
Topics in Cultural Studies 3 OR 4 hrs.
 An interdisciplinary approach to a current cultural debate. Topics will vary. 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary. Taught at the Field Museum.

LAS 495
The Newberry Library Undergraduate Seminar 6 hrs.
 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 hours. Pre-tour of the Newberry is recommended. **Prerequisite(s):** Consent of UIC's Newberry Library seminar coordinator.

Linguistics**LING 150**
Introduction to the Study of Language 3 hrs.

The nature of human language and its grammatical, social, and biological aspects are covered.

• *Individual and Society course.*

LING 160
Language and Society 3 hrs.

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 US Society course.*

LING 170
Languages of the World 3 hrs.

A survey of the world's languages: their cultural origins, relationships, similarities, and differences.

• *Individual and Society, and World Cultures course.*

LING 201
Classical Etymology in the Life Sciences 3 hrs.

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
Japanese Language and Culture 3 hrs.

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
Language Acquisition, Language Contact, and Bilingualism 3 hrs.

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
Trial Interaction 3 OR 4 hrs.

Language use, culture, and law in the trial process. Analysis of qualitative methods applied to legal processes and change. **Same as** CRJ 402. 3 undergraduate hours. 4 graduate hours.

Prerequisite(s): CRJ 261 and CRJ 350; or consent of the instructor.

LING 405
Introduction to General Linguistics 3 OR 4 hrs.

Introduction to the theories and methods of the phonological, morphological, and syntactic analysis of language. The historical development of languages. Language use. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Junior standing.

LING 415
Linguistic Structures I 3 OR 4 hrs.

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 hours. 4 graduate hours.

LING 425
Linguistic Structures II 3 OR 4 hrs.

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 hours. 4 graduate hours.

LING 459
Topics in Linguistics 3 OR 4 hrs.

Topics vary. 3 undergraduate hours. 4 graduate hours. 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
Cognitive Psychology of Language 3 hrs.

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
Sociolinguistics 3 OR 4 hrs.

Variations in language that correlate with variation in societies and smaller social groups; interactions of languages and societies. **Same as** ANTH 480. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** LING 405 or junior standing and consent of the instructor.

LING 483
Methodology of TESOL 3 OR 4 hrs.

Methods of teaching listening, speaking, reading, and writing to speakers of English as a second or foreign language. **Same as** CIE 483. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Junior standing and consent of the instructor.

LING 487
Computer-Assisted Language Learning 3 OR 4 hrs.

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 hours. 4 graduate hours. **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.

LING 496
Independent Study 1 TO 4 hrs.

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**
Elementary Lithuanian I 4 hrs.

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
Elementary Lithuanian II 4 hrs.

Continues LITH 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** LITH 101 or the equivalent.

LITH 103
Intermediate Lithuanian I 4 hrs.

Continues LITH 102. **Prerequisite(s):** LITH 102 or the equivalent.

LITH 104
Intermediate Lithuanian II 4 hrs.

Continues LITH 103. **Prerequisite(s):** LITH 103 or the equivalent.

LITH 115
Lithuanian Culture 3 hrs.

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
Lithuanian Prose Fiction in International Context 3 hrs.

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
Lithuanian Literature I 3 hrs.

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
Lithuanian Literature II 3 hrs.

Reading and analysis of the works of selected authors from 1940 to the present.

Prerequisite(s): LITH 221.

LITH 230
Lithuanian Literature Abroad 3 hrs.

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
Independent Study 1 TO 3 hrs.

Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hours.

Prerequisite(s): Junior standing, consent of the instructor and the head of the department.

LITH 410
Structure of Lithuanian 3 OR 4 hrs.

Synchronic analysis of the structure of Lithuanian; emphasis on discourse analysis of oral and written texts. 3 undergraduate hours. 4 graduate hours.

Prerequisite(s): LITH 405 or 18 hours of Lithuanian or the equivalent.

LITH 425
Translation of Lithuanian Texts 3 OR 4 hrs.

Problems of translating Lithuanian texts; workshop in translating Lithuanian works into English. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** LITH 302 or consent of the instructor.

LITH 499
Independent Study 1 TO 4 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hours. 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
Introduction to Organizations 3 hrs.
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
Business and Its External Environment 3 hrs.
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
Organizational Analysis and Practice 3 hrs.
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
Organizations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology, management, or political science; or consent of the instructor.

MGMT 452
Organizational Behavior 3 hrs.
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
Human Resource Management 3 hrs.
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
Labor-Management Relations 3 hrs.
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
Business, Society, and the Global Economy 3 hrs.
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
Negotiation and Conflict Resolution 3 hrs.
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
Compensation and Reward Systems 3 hrs.
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
Managerial Effectiveness through Diversity 3 hrs.
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
Impact of Technological Change 3 hrs.
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
Career Planning and Development 3 hrs.
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
Management and Organizational Development 3 hrs.
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
Transportation Systems Management 3 hrs.
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
Managerial Logistics 3 hrs.
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
Business Ethics 3 hrs.
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
Special Topics in Management 3 hrs.
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
Competitive Strategy 4 hrs.
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
Independent Study in Management 1 TO 3 hrs.
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 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the department head.

Marketing

MKTG 360
Introduction to Marketing 3 hrs.
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
Principles of Retailing 3 hrs.
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
Marketing Analytics 3 hrs.
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
Consumer Market Behavior 3 hrs.
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
Marketing Research 3 hrs.
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
Marketing Channels and E-Commerce 3 hrs.
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
Strategic Marketing Planning and Management 3 hrs.
Development of marketing plans for strategic and tactical programs to achieve the firm's marketing objectives. **Prerequisite(s):** 15 hours of marketing.

MKTG 466
Comparative Marketing Systems 3 hrs.
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
Global Marketing 3 hrs.
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
Services Marketing 3 hrs.
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
The Personal Selling Effort in Marketing 3 hrs.
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
Advertising and Sales Promotion 3 hrs.
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
Product Management 3 hrs.
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
Business-to-Business (B2B) Marketing 3 hrs.
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
Special Topics in Marketing 3 hrs.
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
Independent Study in Marketing 3 hrs.
Topic and research methodology is to be determined by consultation with the instructor. May be repeated to a maximum of 12 hours. 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
Nursing Dimensions of Human Sexuality 2 hrs.
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.

Mathematical Computer Science
MCS 260
Introduction to Computer Science 4 hrs.
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
Programming Tools and File Management 4 hrs.
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
Special Topics in Computer Science 1 TO 4 hrs.
Course content is announced prior to each term in which it is given. May be repeated. **Prerequisite(s):** Approval of the department.

MCS 320
Introduction to Symbolic Computation 3 hrs.
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
Introduction to Data Structures 4 hrs.
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
Discrete Mathematics 3 hrs.
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
Special Topics in Computer Science 2 TO 4 hrs.
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
Computer Algorithms I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MCS 360; or grade of C or better in CS 202.

MCS 411
Compiler Design 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Programming Language Design 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** MCS 360 or CS 340.

MCS 421
Combinatorics 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Graph Theory 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Codes and Cryptography 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Theory of Computation I 3 OR 4 hrs.
Introduction to formal languages; relations between grammars and automata; elements of the theory of computable functions. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** MATH 215.

MCS 451
Object-Oriented Programming in C++ 3 OR 4 hrs.
C++ as an object-oriented language, classes and member functions, access control, class scope, constructors, destructors, overloading, conversions, streams, derived classes, polymorphism through virtual functions, templates, class libraries. 3 undergraduate hours. 4 graduate hours. 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
Numerical Analysis 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Introduction to Industrial Math and Computation 3 OR 4 hrs.
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 fieldwork.

MCS 481
Computational Geometry 3 OR 4 hrs.
Algorithmic problems on sets of points, rectangles, intervals, arcs, chords, polygons. Counting, reporting, location, intersection, pairing; static and dynamic data structures. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MCS 401 or consent of the instructor.

MCS 494
Special Topics in Computer Science 3 OR 4 hrs.
Topics in mathematical computer science, such as symbolic computation, automated reasoning, cryptography or geometric algorithms. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MCS 496
Independent Study 1 TO 4 hrs.
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
Elementary Mathematics 3 hrs.
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
Beginning Algebra 2 hrs.
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
Intermediate Algebra 5 hrs.
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
Intermediate Algebra with Cooperative Preparatory Chemistry 5 hrs.
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
Mathematical Reasoning 5 hrs.
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
Precalculus Mathematics 5 hrs.
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
Emerging Scholars Workshop for Precalculus Mathematics 1 hr.
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
Quantitative Reasoning 5 hrs.
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
Arithmetic and Algebraic Structures 4 hrs.
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
Algebraic and Geometric Structures 4 hrs.
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
Effective Thinking from Mathematical Ideas 4 hrs.
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
Finite Mathematics 3 hrs.
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
Finite Mathematics for Business 5 hrs.
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
Calculus for Business 5 hrs.
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
Emerging Scholars Workshop for Calculus I 1 hr.
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
Calculus I 5 hrs.
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
Calculus II 5 hrs.
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
Emerging Scholars Workshop for Calculus II 1 hr.
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
Special Topics in Mathematics 1 TO 4 hrs.
Course content is announced prior to each term in which it is given. May be repeated. **Prerequisite(s):** Approval of the department.

MATH 205
Advanced Mathematics for Business 5 hrs.
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 & 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
Calculus III 3 hrs.
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
Emerging Scholars Workshop for Calculus III 1 hr.
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
Introduction to Advanced Mathematics 3 hrs.
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
Introduction to Differential Equations 3 hrs.
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
Special Topics in Mathematics 1 TO 4 hrs.
Course content is announced prior to each term in which it is given. May be repeated. **Prerequisite(s):** Approval of the department.

MATH 300
Writing for Mathematics 1 hr.
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 Mathematics, Statistics, and Computer Science Department.

MATH 310
Applied Linear Algebra 3 hrs.
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
Analysis I 3 hrs.
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
Linear Algebra I 3 hrs.
Linear equations, Gaussian elimination, matrices, vector spaces, linear transformations, determinants, eigenvalues and eigenvectors. Credit is not given for MATH 310 if the student has credit for MATH 310. **Prerequisite(s):** Concurrent registration in MATH 215.

MATH 330
Abstract Algebra I 3 hrs.
Sets, properties of integers, groups, rings, fields. **Prerequisite(s):** Grade of C or better in MATH 215.

MATH 394
Special Topics in Mathematics 2 TO 4 hrs.
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
Advanced Calculus I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 210.

MATH 411
Advanced Calculus II 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 410.

MATH 414
Analysis II 3 OR 4 hrs.
Sequences and series of functions. Uniform convergence. Taylor's theorem. Topology of metric spaces, with emphasis on the real numbers. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 313.

MATH 417
Complex Analysis with Applications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 210.

MATH 419
Models in Applied Mathematics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 220 and grade of C or better in MCS 260.

MATH 425
Linear Algebra II 3 OR 4 hrs.
Canonical forms of a linear transformation, inner product spaces, spectral theorem, principal axis theorem, quadratic forms, special topics such as linear programming. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 320.

MATH 430
Formal Logic I 3 OR 4 hrs.
First order logic, syntax and semantics, completeness-incompleteness. 3 undergraduate hours. 4 graduate hours. 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
Abstract Algebra II 3 OR 4 hrs.
Further topics in abstract algebra: Sylow Theorems, Galois Theory, finitely generated modules over a principal ideal domain. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 320 and grade of C or better in MATH 330.

MATH 435
Foundations of Number Theory 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 215.

MATH 436
Number Theory for Applications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 435.

MATH 442
Differential Geometry of Curves and Surfaces 3 OR 4 hrs.
Frenet formulas, isoperimetric inequality, local theory of surfaces, Gaussian and mean curvature, geodesics, parallelism, and the Gauss-Bonnet theorem. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 320.

MATH 445
Introduction to Topology I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 313.

MATH 446
Introduction to Topology II 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 445.

MATH 480
Applied Differential Equations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 220.

MATH 481
Applied Partial Differential Equations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 220.

MATH 494
Special Topics in Mathematics 3 OR 4 hrs.
Course content is announced prior to each term in which it is given. 3 undergraduate hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

MATH 496
Independent Study 1 TO 4 hrs.
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
Methods of Teaching Secondary Mathematics I 3 OR 4 hrs.
Philosophies, issues, techniques, and styles of teaching high school mathematics. Implications of psychological models. Mathematics in the evolving curriculum. Preparation of lessons. 3 undergraduate hours. 4 graduate hours. 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
Methods of Teaching Secondary Mathematics II 3 OR 4 hrs.
Philosophies, issues, techniques, and styles of teaching high school mathematics. Preparation of diverse lessons. Supervised teaching experience. 3 undergraduate hours. 4 graduate hours. 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
Advanced Euclidean Geometry 3 OR 4 hrs.
Axioms for Euclidean geometry are developed based upon reflections. Further concepts in Euclidean geometry which arise from these axioms are explored. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 215.

MTHT 420
Computers in Secondary School Mathematics 3 OR 4 hrs.
An overview of techniques, topics, and tools for teaching secondary level mathematics using computers. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 210.

MTHT 430
Mathematical Analysis for Teachers I 4 hrs.
Basic properties of numbers, functions, graphs, limits, continuity, completeness of the system of real numbers. **Prerequisite(s):** Grade of C or better in MATH 210 or consent of the instructor.

MTHT 438
Educational Practice with Seminar I 6 hrs.

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
Educational Practice with Seminar II 6 hrs.

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
Concepts in Elementary School Mathematics I 3 OR 4 hrs.

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 hours. 4 graduate hours. 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
Geometric Measurement and Numerical Methods 3 OR 4 hrs.

Classical problems of length, area and volume, including numerical trigonometry, are explored using a scientific calculator. 3 undergraduate hours. 4 graduate hours. 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
Teaching Algebra for Understanding 3 OR 4 hrs.

Manipulatives and other representations of mathematical concepts used for teaching algebra to middle grade students. 3 undergraduate hours. 4 graduate hours.

Prerequisite(s): Admission to the MS in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

MTHT 466
Introduction to Calculus and the Graphing Calculator 4 hrs.

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
Introduction to Number Theory with Application 4 hrs.

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
Geometry with Applications for Middle Grade Teachers 4 hrs.

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
Teaching Mathematics with Science: An Activity Approach I 3 OR 4 hrs.

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 hours. 4 graduate hours. 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
Microcomputers in Elementary School Mathematics I 3 OR 4 hrs.

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 hours. 4 graduate hours. 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
Topics in Teaching Secondary Mathematics 1 TO 5 hrs.

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
Topics in Teaching Elementary/Junior High School Mathematics 1 TO 5 hrs.

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
Independent Study 1 TO 4 hrs.

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**
Introduction to Thermodynamics 3 hrs.

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
Engineering Dynamics 3 hrs.

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
Fluid Mechanics I 4 hrs.

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
Fundamentals of Fluid Mechanics 3 hrs.

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
Engineering Graphics and Design 3 hrs.

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
Materials for Manufacturing 2 hrs.

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
Special Problems 1 TO 4 hrs.

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
Mechanical Vibrations 3 hrs.

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
Dynamic Systems and Control 3 hrs.
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
Fluid Mechanics II 3 hrs.
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
Mechanisms and Dynamics of Machinery 4 hrs.
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
Heat Transfer 4 hrs.
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
Intermediate Thermodynamics 3 hrs.
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
Experimental Methods in Mechanical Engineering 3 hrs.
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
Design of Machine Components 3 hrs.
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
Manufacturing Process Principles 3 hrs.
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
Undergraduate Research 1 TO 3 hrs.
Research under close supervision of a faculty member. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Consent of the head of the department.

ME 396
Senior Design I 4 hrs.
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
Applied Stress Analysis I 3 OR 4 hrs.
Complex bending and torsion, curved flexural members, energy methods in design, theories of failure. 3 undergraduate hours. **Prerequisite(s):** CME 203.

ME 408
Intermediate Vibration Theory 3 OR 4 hrs.
Free and forced vibrations of multidegree of freedom linear systems. Lagrangian dynamics, matrix, approximate and numerical methods. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ME 308.

ME 409
Advanced Kinematics I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 320.

ME 410
Automation and Robotics Applications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 210.

ME 411
Mechatronics I 0 TO 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. **Prerequisite(s):** Senior standing or above; or approval of the department.

ME 412
Dynamic Systems Analysis I 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 308.

ME 413
Dynamics of Mechanical Systems 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 320.

ME 414
Theory of Gearing and Applications 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 320.

ME 415
Propulsion Theory 3 OR 4 hrs.
Thermodynamics and fluid mechanics of air-breathing engines, performance of rockets; chemical and nuclear rockets. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ME 419 or the equivalent.

ME 417
Intermediate Fluid Mechanics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 321.

ME 419
Compressible Flow Theory 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 321.

ME 421
Intermediate Heat Transfer 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 321 or consent of the instructor.

ME 422
Heating, Ventilation, and Air Conditioning 3 OR 4 hrs.
Refrigeration systems and heat-pump, mass transfer in humidification, solar heat transfer in buildings, heating and cooling loads, air-conditioning computer project. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ME 321.

ME 423
Heat Exchangers 3 OR 4 hrs.
Classification; heat transfer and pressure drop analysis, flow distribution, transient performance, surface selection and geometrical properties, codes and standards. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ME 211 and ME 321.

ME 424
Energy Management Solutions for Industry: Theory and Practice 3 OR 4 hrs.
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 hours. 4 graduate hours. Extensive computer use required. Fieldwork required. Extensive use of Microsoft Excel. **Prerequisite(s):** Junior standing or above.

ME 425
Second Law Analysis in Energy Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 321.

ME 426
Applied Combustion 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 325.

ME 427
Solar Engineering 3 OR 4 hrs.
Applications; solar geometry and intensities; applied heat transfer topics; flat plate and concentrating collectors; energy storage; analysis of heating and cooling systems. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** ME 321 or consent of the instructor.

ME 428
Numerical Methods in Mechanical Engineering 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CS 108 and senior standing.

ME 429
Internal Combustion Engines 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 325.

ME 433
Nonequilibrium Thermal Processes 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ME 325 or consent of the instructor.

ME 441
Optical Methods in Mechanical Engineering 0 TO 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Senior standing or consent of the instructor.

ME 444
Interdisciplinary Product Development I 3 hrs.
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. Year-long (with ME 445) project course. **Prerequisite(s):** Senior standing or above; and consent of the instructor.

ME 445
Interdisciplinary Product Development II 4 hrs.
Cross-functional teams (with students from AD 420 and MKTG 594) research and develop new product concepts. Focus on solutions to the opportunities identified in ME 444 to functional prototypes. Year-long (with ME 444) project course. **Prerequisite(s):** ME 444; and senior standing or above; and consent of the instructor.

ME 447
Introduction to Computer-Aided Design 0 TO 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** MATH 220 and ME 250.

ME 449
Microdevices and Micromachining Technology 0 TO 5 hrs.
Microfabrication techniques for microsensors, microstructures, and microdevices. Selected examples of physical/chemical sensors and actuators. Simulation experiments. Laboratory. **Same as** ECE 449. 4 undergraduate hours. 5 graduate hours. **Prerequisite(s):** ECE 347.

ME 450
Air Pollution Engineering 4 hrs.
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
Virtual Automation 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** IE 201; and CS 107 or CS 108.

ME 468
Virtual Manufacturing 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** CS 107 or CS 108.

ME 494
Special Topics in Mechanical Engineering 3 OR 4 hrs.
Particular topics vary from term to term depending on the interests of the students and the specialties of the instructor. 3 undergraduate hours. 4 graduate hours. May be repeated. **Prerequisite(s):** Consent of the instructor.

Medicinal Chemistry and Pharmacognosy

PMMP 365
Contemporary Pharmacognosy 2 hrs.
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
Undergraduate Research in Medicinal Chemistry and Pharmacognosy 1 TO 3 hrs.
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
Professional Development Seminar I 1 hr.
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
Professional Development Seminar II 1 hr.
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 distinguished 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
Professional Development Seminar III 1 hr.
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
Professional Development Seminar IV 1 hr.
 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
Special Topics in Medicinal Chemistry and Pharmacognosy 1 TO 3 hrs.
 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
Special Projects in Medicinal Chemistry and Pharmacognosy 1 TO 2 hrs.
 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
Biophysical Chemistry of Water 1 hr.
 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
Pharmaceutical Applications of Genomics and Bioinformatics 2 hrs.
 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
Organic Medicinal Chemistry I 3 hrs.
 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
Introduction to Medical Microbiology 3 hrs.
 Introduction to the fundamental aspects of bacterial, fungal, and viral pathogenesis, therapy, control and prevention of infectious diseases. **Prerequisite(s):** BIOS 100 and BIOS 101 and CHEM 130, or the equivalent. **Recommended background:** Credit in BIOS 350.

MIM 425
Fundamentals of Immunology and Microbiology 3 hrs.
 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
Microorganisms as Agents of Human Disease 3 hrs.
 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
U.S. Defense Establishment 1 hr.
 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
Customs and Traditions of the Military 1 hr.
 Fundamentals, principles, and traits of leadership; discussion and practical application of communication and counseling techniques. A practical laboratory is required.

MILS 107
Introduction to United States Military History 3 hrs.
 Analytical study of American military history from its origin through the present. Emphasis on leadership, strategy, the principles of war, and growth of the military in the United States.

MILS 199
Military Topics 1 TO 3 hrs.
 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
Fundamentals of Leadership, Organization, and Planning 2 hrs.
 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
Leadership Dynamics 2 hrs.
 Role of intermediate supervisors in military operations; introduction to professional ethics and characteristics of the Army officer corps. A practical laboratory is required.

MILS 301
Military Operations and Tactics 3 hrs.
 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
Organizational Leaders 3 hrs.
 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
Military Law 3 hrs.
 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
Training and Resource Management 3 hrs.
 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
Advanced Military Topics 1 TO 3 hrs.
 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
Advanced Independent Research 1 TO 3 hrs.
 Intensive research and study of selected topics. May be repeated to a maximum of 6 hours. 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
Elementary Modern Greek I 4 hrs.
 Fundamentals of standard modern Greek at the beginning level, including pronunciation, grammar, reading, conversation, and composition.

GKM 102
Elementary Modern Greek II 4 hrs.
 Continues study of standard modern Greek grammar, reading, conversation, and composition. **Prerequisite(s):** GKM 101.

GKM 103
Intermediate Modern Greek I 4 hrs.
 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
Intermediate Modern Greek II 4 hrs.
 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
Modern Greek Culture 3 hrs.
Introduction to a variety of aspects of modern Greek culture, including basic information about the country. Readings consist partly of secondary literature (i.e., nonliterary texts) and partly of relevant examples of Modern Greek literature. Taught in English.
• *World Cultures course.*

GKM 201
Introduction to Katharevousa 3 hrs.
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
Modern Greek Authors in Translation 3 hrs.
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.
Prerequisite(s): Sophomore standing or above.
• *World Cultures course.*

GKM 209
The Byzantine Empire 3 hrs.
The East Roman Empire from its creation by Diocletian and Constantine to its conquest by the Ottoman Turks. **Same as** HIST 209.

GKM 285
Cultural History of Modern Greece: 1453 to the Present 3 hrs.
Survey of the cultural history of modern Greece, from the end of the Byzantine Empire in 1453 to the end of the present. **Same as** HIST 285.
• *Past course.*

GKM 286
Modern Greek Cities: Historical-Ethnographic Survey 3 hrs.
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. **Same as** HIST 286.
• *Past course.*

GKM 298
Topics in Modern Greek Studies 3 hrs.
Selected topics at an intermediate level in Modern Greek Studies. May be repeated. Students may register for more than one section per term. **Prerequisite(s):** Consent of the instructor.
Recommended background: GKM 105.

GKM 299
Independent Study 1 TO 4 hrs.
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.

Movement Sciences

MVSC 100
Introduction to Study in Movement Sciences 2 hrs.
Core course emphasizing historical, philosophical/scientific foundations; curricular offerings: careers; and professional organizations; and resources, issues and trends that impact the field of Movement Sciences. Satisfactory/Unsatisfactory grading only. Previously listed as KINE 150.

MVSC 101
Practicum in Movement Sciences 2 TO 4 hrs.
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 hours. Fieldwork required. Students must provide their own transportation to and from practicum sites. **Prerequisite(s):** MVSC 100 or consent of the instructor.

MVSC 130
Stress Management 3 hrs.
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. Previously listed as KINE 120.

MVSC 136
Weight Training I 1 hr.
Introduction to weight training. Muscle physiology; training principles, fundamentals, and practice; types and systems of strength training. Previously listed as KINE 136.

MVSC 137
Aerobic Conditioning I 1 hr.
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. Previously listed as KINE 137.

MVSC 194
Special Topics in Movement Sciences 1 TO 3 hrs.
Participation and study in selected activities in movement sciences. May be repeated if topics vary. Students may register in more than one section per term. Previously listed as KINE 194.

MVSC 200
Research Literacy in Movement Sciences 3 hrs.
An introduction to research and the scientific method to include the application of selected statistical treatments to gain minimal competence to review and interpret results from research published in the area of applied exercise and fitness. Previously listed as KINE 203.
Prerequisite(s): PSCH 100 and MATH 118.

MVSC 240
Instructional Techniques in Fitness 3 hrs.
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. Previously listed as KINE 240. **Prerequisite(s):** MVSC 160 and MVSC 251; or consent of the instructor.

MVSC 243
Basic Fitness Assessment 3 hrs.
This introductory-level course deals with screening and assessing fitness components necessary to assess posture, body composition, strength, flexibility, and cardio-respiratory endurance. Previously listed as KINE 258. Extensive use of instrumentation.
Prerequisite(s): Sophomore standing or above.

MVSC 251
Human Physiological Anatomy I 5 hrs.
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. Previously listed as KINE 251.
Prerequisite(s): BIOS 100 or consent of the instructor.

MVSC 252
Human Physiological Anatomy II 5 hrs.
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. Previously listed as KINE 252. **Prerequisite(s):** MVSC 251 or consent of the instructor.

MVSC 253
Human Anatomy and Physiology I 4 hrs.
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 MVSC 253 if the student has credit for MVSC 251. Extensive computer use required. **Prerequisite(s):** BIOS 100 or consent of the instructor.

MVSC 254
Human Anatomy and Physiology II 4 hrs.
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 MVSC 254 if the student has credit for MVSC 252. Extensive computer use required. **Prerequisite(s):** MVSC 253; or MVSC 251.

MVSC 260
Biomechanics: Introduction to the Human Machine 3 hrs.
Introduces the nonengineering/physics student to the science of mechanics with a particular emphasis on the application of mechanics to the analysis of normal and pathological human and animal movement. Previously listed as MVSC 160.
Prerequisite(s): MATH 121.

MVSC 264
Instructional Techniques in Dance 2 hrs.
Introduction to dance education with emphasis on developing teaching methods and skills for the classroom. **Same as** DNCE 264.

MVSC 294
Special Topics in Movement Sciences 1 TO 3 hrs.
Selected topics in movement sciences. May be repeated if topics vary. Students may register in more than one section per term. Previously listed as KINE 294. **Prerequisite(s):** Consent of the instructor.

MVSC 300
Literature Review in Movement Sciences 3 hrs.
Review of current literature topics in Movement Sciences. Critical evaluation of methodology, results, discussion, and the significance to the scientific community.
Prerequisite(s): MVSC 200 or PSCH 242; and junior standing or above; or consent of the instructor.

MVSC 330
Women's Health-Related Fitness 3 hrs.
The integration of social and physiological sciences to explore the relationship between women's health status and physical activity/exercise participation.
Prerequisite(s): MVSC 352 and junior standing or above; or consent of the instructor.

MVSC 331
Sport and Exercise Injury Management 3 hrs.
Fundamental management of exercise and sport related injuries and conditions. Opportunity for Cardiopulmonary Resuscitation/Automated External Defibrillator certification. Previously listed as KINE 331. **Prerequisite(s):** MVSC 251 and MVSC 252; and junior standing or above.

MVSC 335
Exercise Psychology 3 hrs.
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. Previously listed as KINE 353. **Prerequisite(s):** PSCH 100.

MVSC 340
Aquatic Fitness Leadership 2 hrs.
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. Previously listed as KINE 345. **Prerequisite(s):** MVSC 240.

MVSC 343
Advanced Fitness Assessment 3 hrs.
This laboratory-based course is designed to provide a variety of experiences in conducting advanced assessment techniques in health and fitness.
Prerequisite(s): MVSC 243 and MVSC 345 and MVSC 352; and junior standing or above.

MVSC 345
Exercise Programming 3 hrs.
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. Previously listed as KINE 387. **Prerequisite(s):** MVSC 240 and MVSC 243 and MVSC 352 and junior standing or above; or approval of the department.

MVSC 348
Modifications in Exercise Programming 3 hrs.
This course examines the criteria for exercise and fitness participation and the modifications necessary to benefit people with limiting physical conditions. Previously listed as KINE 383. **Prerequisite(s):** MVSC 345 and junior standing or above.

MVSC 350
Cadaver Dissection I 1 TO 3 hrs.
Cadaver dissection using the regional approach. Dissection of the musculoskeletal system, spinal cord, and peripheral nervous system. Previously listed as KINE 300. **Prerequisite(s):** Grade of B or better in MVSC 252 or consent of the instructor.

MVSC 351
Cadaver Dissection II 1 TO 3 hrs.
Cadaver dissection using the regional approach method. Dissection of the brain, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Previously listed as KINE 301. **Prerequisite(s):** Grade of B or better in MVSC 252 or consent of instructor.

MVSC 352
Physiology of Exercise 4 hrs.
The physiological responses associated with acute and chronic physical exercise; muscular, circulatory, respiratory, and nervous systems. Previously listed as KINE 352. **Prerequisite(s):** MVSC 252.

MVSC 365
Biomechanics of Musculoskeletal Tissues 3 hrs.
Introduces the nonengineering/physics student to the biomechanics of musculoskeletal tissues and the biomechanics of injury with an emphasis placed on human movement. Previously listed as KINE 304. **Prerequisite(s):** MVSC 160 or one year of college physics; or consent of the instructor.

MVSC 372
Motor Control and Learning 3 hrs.
Introduction to basic principles regarding the acquisition and control of human movements. Previously listed as KINE 354. **Prerequisite(s):** PSCH 100 and MVSC 252.

MVSC 393
Undergraduate Internship in Movement Sciences 6 hrs.
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.

MVSC 394
Special Topics in Movement Sciences 3 hrs.
Selected topics in movement sciences. 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. Previously listed as KINE 394. **Prerequisite(s):** MVSC 100; and sophomore standing or above; and consent of the instructor.

MVSC 396
Independent Study in Movement Sciences 1 TO 3 hrs.
Selected topics in movement sciences for individual study. May be repeated to a maximum of 6 hours. Previously listed as KINE 399. **Prerequisite(s):** Junior standing or above; and consent of the instructor. Approval of student project by the MVSC 396 instructor and the supervising instructor.

MVSC 398
Senior Research Seminar 3 hrs.
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. Previously listed as KINE 397. Fieldwork may be required. Students successfully completing MVSC 398 and maintaining a cumulative GPA of 3.25 are eligible to take MVSC 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.

MVSC 399
Senior Research Project 3 hrs.
The implementation of the proposal developed in KINE 397. 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. Previously listed as KINE 390. **Prerequisite(s):** MVSC 398, senior standing, and a cumulative grade point average of 3.25 or above.

MVSC 400
Business Principles for the Fitness Professional 3 hrs.
Provides a survey of basic requisite business principles and the application of these principles for students pursuing careers in corporate and community fitness. Previously listed as KINE 406. **Prerequisite(s):** MVSC 100; and junior standing or above.

MVSC 410
Human Aging and Physical Performance 3 hrs.
Introduction to human aging focused on the impact of aging to physical structure and function. Investigate research-based evidence of the role of activity and exercise in altering physiology, life expectancy, disease, and disability prevention. Previously listed as KINE 404. **Prerequisite(s):** MVSC 252; and junior standing or above.

MVSC 435
Psychology and Physical Activity 3 hrs.
Analysis and application of psychological concepts related to process and outcomes of sport and exercise programs. Previously listed as KINE 412.

MVSC 438
Exercise Adherence 3 hrs.
Exercise behavior as it relates to habitual physical activity. Encompasses health outcomes, exercise adherence factors, intervention, strategies, and exercise settings. Previously listed as KINE 418.

MVSC 441
Principles of Resistance Training 3 hrs.
This course examines the physiological principles underlying resistance training and the development of safe and effective resistance training programs. **Prerequisite(s):** MVSC 352 and junior standing or above; or consent of the instructor.

MVSC 442
Principles of ECG Interpretation 3 hrs.

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 MVSC 352; and junior standing or above; or consent of the instructor.

MVSC 452
Advanced Exercise Physiology 3 hrs.

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):** MVSC 352; and junior standing or above and one college-level course in chemistry.

MVSC 460
Neuromechanical Basis of Human Movement 3 hrs.

Biomechanics of single and multijoint 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. Previously listed as KINE 428. **Prerequisite(s):** MVSC 160 and MVSC 252 and junior standing or above; or consent of the instructor.

MVSC 472
Movement Neuroscience 3 hrs.

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. Previously listed as KINE 472. **Prerequisite(s):** MVSC 251 and MVSC 252 and MVSC 352 and MVSC 372; and junior standing or above; or consent of the instructor.

MVSC 481
Workshop in Movement Sciences 1 TO 3 hrs.

Intensified study of selected activities, topics, processes, or areas in movement sciences. Topic will be announced. May be repeated if topics vary. Students may register in more than one section per term. Previously listed as KINE 481.

MVSC 489
Seminars in Movement Sciences 1 TO 3 hrs.

Weekly seminars devoted to research in movement sciences and related fields, followed by a one-hour discussion. Satisfactory/Unsatisfactory grading only. May be repeated. **Prerequisite(s):** Junior standing or above.

MVSC 490
Educational Practice with Seminar I 6 hrs.

The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Previously listed as KINE 490. 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.

MVSC 491
Educational Practice with Seminar II 6 hrs.

The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Previously listed as KINE 491. 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 MVSC 490, and approval of the department.

MVSC 496
Special Projects in Movement Sciences 1 TO 3 hrs.

Independent research on special projects. Previously listed as KINE 494. **Prerequisite(s):** Approval by graduate faculty member and graduate director.

Moving Image Arts
MOVI 102
Introduction to Film 3 hrs.

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
Communication Technologies 3 hrs.

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
History of Film I: 1890 to World War II 3 hrs.

History of film from its beginnings in the 1890s up to World War II. **Same as AH 232 and ENGL 232.**

MOVI 233
History of Film II: World War II to the Present 3 hrs.

History of film from World War II to contemporary movements in world cinema. **Same as AH 233 and ENGL 233.**

MOVI 234
History of Television 3 hrs.

A critical history of television. **Same as COMM 234 and ENGL 234.** One additional hour each week for required screenings.

MOVI 302
Studies in the Moving Image 3 hrs.

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 hours. **Prerequisite(s):** ENGL 102 or consent of instructor.

Music
MUS 100
Introduction to Music I 3 hrs.

Listening, understanding, and enjoying music. May not be taken for credit by music majors or minors.
 • *Creative Arts course.*

MUS 101
Music Theory I 3 hrs.

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
Music Theory II 3 hrs.

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
Ear Training I 1 hr.

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
Ear Training II 1 hr.

The development of aural perception and sight-singing ability; material is correlated with MUS 102. Must enroll concurrently in MUS 102 and MUS 171.

MUS 107
Fundamentals of Music Theory 3 hrs.

Notation, metrical organization and rhythmic structure, scales and key signatures, intervals, triads, ear training, and sight singing. For the general student.
 • *Creative Arts course.*

MUS 110
Convocation/Recital 0 hrs.

A weekly convocation presenting concerts by faculty, visiting artists, or students. Satisfactory/Unsatisfactory grading only.

MUS 113
Music Literature: Survey of the Secular Art Song from the Middle Ages to the Present 3 hrs.

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
Jazz 3 hrs.

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
Opera 3 hrs.

Historical survey tracing the growth and development of opera from its beginnings to the present.
 • *Creative Arts course.*

MUS 117
Music for Symphony Orchestra 3 hrs.

Music for symphony orchestra from Haydn to Bartok: symphony, overture, and tone poem.
 • *Creative Arts course.*

MUS 119
Music for the Piano 3 hrs.

A survey of three centuries of keyboard music, from the Baroque to the present.
 • *Creative Arts course.*

MUS 127
Latin American Music 3 hrs.

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.**
 • *World Cultures course.*

MUS 151
Concert Band 1 hr.
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 hours. Occasional field trips. **Prerequisite(s):** Audition and/or consent of the instructor.

MUS 152
Instrumental Ensembles 1 hr.
Performance of chamber ensemble literature of varied types. May be repeated to a maximum of 8 hours. Students may register in more than one section per term. Occasional concerts on and off campus. **Prerequisite(s):** Audition and/or consent of the instructor.

MUS 153
University Choir 1 hr.
Student performance of choral literature of all musical periods. May be repeated to a maximum of 8 hours. Occasional concerts off-campus. **Prerequisite(s):** Audition required.

MUS 154
Chamber Choir 1 hr.
Study/performance of choral literature for 16 to 24 voices. May be repeated to a maximum of 8 hours. Occasional concerts off-campus. **Prerequisite(s):** Audition required.

MUS 155
Women's Choral Ensemble 1 hr.
Study/performance of choral literature of all musical periods. May be repeated to a maximum of 8 hours. Occasional concerts off-campus. **Prerequisite(s):** Basic music-reading skills and an audition required.

MUS 156
Pep Band 1 hr.
Performs at home basketball and hockey games. May be repeated to a maximum of 8 hours. **Prerequisite(s):** Consent of instructor. Must enroll concurrently in MUS 151.

MUS 159
Jazz Ensemble 1 hr.
Practical experience in the preparation and public performance of big band and small ensemble jazz. May be repeated to a maximum of 8 hours. Field trips may be required. **Prerequisite(s):** Consent of the instructor.

MUS 170
Keyboard Skills I 2 hrs.
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
Keyboard Skills II 2 hrs.
Continues MUS 170. **Prerequisite(s):** MUS 170.

MUS 180
Private Instrumental Lessons 2 hrs.
Applied music instruction in woodwinds, brass, percussion, piano, guitar, or organ. May be repeated to a maximum of 16 hours. **Prerequisite(s):** Audition prior to initial registration and approval of the department.

MUS 182
Private Voice Lessons 2 hrs.
Applied music instruction in voice. May be repeated to a maximum of 16 hours. **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
Class Voice 1 hr.
Group instruction in singing. May be repeated to a maximum of 8 hours. **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
Theory of Music III 3 hrs.
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
Theory of Music IV 3 hrs.
Continues MUS 201. Harmony in the late nineteenth century; introduction to twentieth-century practices. **Prerequisite(s):** MUS 201 and MUS 203, or the equivalents.

MUS 203
Ear Training III 1 hr.
Aural perception and sight singing. **Prerequisite(s):** MUS 104 or the equivalent. Must enroll concurrently in MUS 201.

MUS 204
Ear Training IV 1 hr.
Advanced aural perception and sight singing. **Prerequisite(s):** MUS 203. Must enroll concurrently in MUS 202.

MUS 227
Music Cultures of the World 3 hrs.
Examination of music throughout the world from an ethnomusicological perspective. Emphasis on classical, tribal, and folk musics; music as a cultural phenomenon.
• Creative Arts course.

MUS 230
Music History I 3 hrs.
Principal styles and composers from the Middle Ages through the Renaissance. **Prerequisite(s):** MUS 102 and MUS 104.

MUS 231
Music History II 3 hrs.
Principal styles and composers from the baroque period through the classical period. **Prerequisite(s):** MUS 230.

MUS 232
Music History III 3 hrs.
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):** MUS 202 and MUS 204 and MUS 231.

MUS 270
Keyboard Skills III 2 hrs.
Continues MUS 171. **Prerequisite(s):** MUS 171 and concurrent registration in MUS 201 and MUS 203 or approval of the department.

MUS 271
Keyboard Skills IV 2 hrs.
Advanced keyboard skills, including keyboard harmony, improvisation, accompanying, and score reading. **Prerequisite(s):** MUS 270 and concurrent registration in MUS 202 and MUS 204 or approval of the department.

MUS 280
Advanced Private Instrumental Lessons 3 hrs.
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 hours. **Prerequisite(s):** Four semesters of MUS 180 and approval of the department.

MUS 282
Advanced Private Voice Lessons 3 hrs.
Advanced applied music instruction in voice. May be repeated to a maximum of 12 hours. **Prerequisite(s):** Approval of the department and admission to the music major and successful completion of four terms of MUS 182. **Recommended background:** Performance experience beyond regular UIC studies.

MUS 298
Selected Topics in Music 3 hrs.
Study in specialized areas of music history, music theory, jazz, and ethnomusicology. May be repeated to a maximum of 12 hours. **Prerequisite(s):** Consent of the instructor.

MUS 299
Independent Study 1 TO 4 hrs.
Projects and topics for individual investigation. Course number may be used for student-initiated courses. May be repeated to a maximum of 16 hours. Students may register in more than one section per term. **Prerequisite(s):** MUS 202 and MUS 204 and approval of the department.

MUS 300
Counterpoint 3 hrs.
Written exercises and study of contrapuntal techniques in a variety of styles. **Prerequisite(s):** MUS 202 and MUS 204; or approval of the department.

MUS 301
Analytic Techniques 3 hrs.
Analysis of representative works in a variety of genres from the seventeenth through the twentieth centuries. **Prerequisite(s):** MUS 300.

MUS 302
Composition I 3 hrs.
Class and individual instruction in the basic techniques of twentieth-century composition. Practice in the use of twentieth-century musical materials. **Prerequisite(s):** MUS 202 and MUS 204 and consent of the instructor.

MUS 303
Composition II 3 hrs.
Continues instruction in the techniques and materials of twentieth-century composition. **Prerequisite(s):** MUS 302.

MUS 304
Conducting 3 hrs.
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):** MUS 202 and MUS 204.

MUS 306
Orchestration and Arranging I 3 hrs.
The acoustical properties, musical characteristics, and scoring problems of string, woodwind, and brass instruments. Scoring for string, woodwind, and brass ensembles. **Prerequisite(s):** MUS 202 and MUS 204.

MUS 307
Orchestration and Arranging II 3 hrs.
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):** MUS 306.

MUS 320
Music Proseminar 1 TO 3 hrs.
Selected topics for intensive study in specialized areas of music history or music theory. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Senior standing with major in music and consent of the instructor.

MUS 391
Study Abroad in Music 0 TO 16 hrs.
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
Music Education: Special Topics 1 TO 4 hrs.
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
Introduction to Native American Literatures 3 hrs.
An introduction to the oral and written literatures of American Indians. **Same as** ENGL 112.
• *Creative Arts, and US Society course.*

NAST 113
Native American Studies: Sovereignty 3 hrs.
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, US Society, and World Cultures course.*

NAST 115
Introduction to North American Indian History 3 hrs.
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, US Society, and World Cultures course.*

NAST 271
Native American Art 3 hrs.
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
American Indian Ethnohistory 3 OR 4 hrs.
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 hours. 4 graduate hours.
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
Topics in Native American Literatures 3 OR 4 hrs.
The history and development of literature by and about American Indians. Content varies. **Same as** ENGL 471. 3 undergraduate hours. 4 graduate hours. 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.

Natural Sciences

NATS 101
Physical World 4 hrs.
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
Chemical World 4 hrs.
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
Biological World 4 hrs.
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
Project-Based Seminar in Natural Science 1 hr.
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
Introduction to Naval Science 2 hrs.
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
Naval Ships Systems 3 hrs.
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
Naval Weapons Systems 3 hrs.
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
Sea Power and Maritime Affairs 3 hrs.
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
Topics in Naval Science 1 TO 3 hrs.
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
Navigation 3 hrs.
Ship navigation. Covers areas of piloting, celestial and electronic means of shipboard navigation.
Prerequisite(s): Consent of the instructor.

NS 302
Naval Operations 3 hrs.
Ship operations and movement. Covers maneuvering, seamanship, communications, and command and control. **Prerequisite(s):** Consent of the instructor.

NS 310
Evolution of Warfare 3 hrs.
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
Amphibious Warfare 3 hrs.
Historical survey of the evolution of amphibious warfare in the twentieth century.
Prerequisite(s): Consent of the instructor.

NS 351
Naval Leadership and Ethics 3 hrs.
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
Leadership Seminar 0 hrs.
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
Advanced Topics in Naval Science 1 TO 3 hrs.
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
Independent Study in Naval Science 1 TO 3 hrs.
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.

Nursing Sciences**NUSC 202****Concepts and Processes of Professional Nursing** 3 hrs.

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; and consent of the instructor.

NUSC 210**Health Assessment** 3 hrs.

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; and consent of the instructor.

NUSC 215
Pathophysiology and Applied Pharmacology I

4 hrs.

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 MVSC 252.

NUSC 217
Pathophysiology and Applied Pharmacology II

3 hrs.

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
Introduction to Clinical Concepts and Processes

6 hrs.

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. **Prerequisite(s):** Credit or concurrent registration in NUSC 210 and credit or concurrent registration in NUSC 215; and credit in a general microbiology course and consent of the instructor.

NUSC 242**Concepts and Processes for Contemporary Nursing Practice** 4 hrs.

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.

NUSC 250**Human Development across the Life Span** 3 hrs.

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**Exploring Complementary/Alternative Practices** 2 hrs.

Explores philosophical, historical, cultural, and clinical aspects of complementary/alternative practices. Providing holistic nursing care by incorporating complementary/alternative practices will be emphasized. **Prerequisite(s):** NUSC 217 and NUSC 225; or consent of the instructor.

NUSC 312**Ethical-Legal Issues in Nursing** 2 hrs.

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. **Prerequisite(s):** Consent of the instructor.

NUSC 313**Nursing Perspectives on Health Policy and Politics** 2 hrs.

Health policy issues are analyzed from political, socioeconomic, and ethical perspectives and their relation to policy process and healthcare delivery. **Prerequisite(s):** Consent of the instructor.

NUSC 315**Fluid and Electrolyte Alterations** 2 hrs.

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**Nursing Informatics** 2 hrs.

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.

NUSC 317**Introduction to Critical Care Nursing** 2 hrs.

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**Death and Dying** 2 hrs.

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**Introduction to Nursing Research and Statistics for Evidence-Based Practice** 4 hrs.

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.

NUSC 335**Clinical Concepts and Processes in Adult Health** 6 hrs.

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; and consent of the instructor.

NUSC 345**Clinical Concepts and Processes in Women's and Family Health** 5 hrs.

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**History of Nursing** 2 hrs.

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.

NUSC 355**Clinical Concepts and Processes in Children's and Family Health** 5 hrs.

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**Clinical Concepts and Processes in Mental Health** 5 hrs.

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; and consent of the instructor.

NUSC 375**Concepts and Processes in Older Adult Health** 3 hrs.

Application of concepts of gerontology, aging theories, and care of the older adult, including health promotion and maintenance and rehabilitation. **Prerequisite(s):** NUSC 225; and consent of the instructor.

NUSC 385**Clinical Concepts and Processes in Population-Focused Nursing** 5 hrs.

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; and consent of the instructor.

NUSC 390**Nursing Leadership and Management in Healthcare** 6 hrs.

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.

NUSC 393
Readings in Evidence-Based Practice 3 hrs.
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.

NUSC 394
Special Topics: Undergraduate 1 TO 4 hrs.
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):** Completion of Level II courses and consent of the instructor.

NUSC 397
Issues in Nursing Practice 3 hrs.
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
Independent Study: Undergraduate 1 TO 4 hrs.
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):** Completion of Level II courses and consent of the instructor.

NUSC 438
Infant Feeding: Historical, Societal, and Health Policy Issues 3 hrs.
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):** Consent of the instructor.

NUSC 440
Wholistic Health: Use of Self 2 hrs.
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):** Graduate standing; or senior standing and consent of the instructor.

NUSC 441
Wholistic Health: Community Focus 2 hrs.
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):** Graduate standing; or senior standing and consent of the instructor.

NUSC 450
Women and Mental Health Nursing 3 hrs.
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
Women's Health: A Primary Healthcare Approach 3 hrs.
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
Individualized Internship 1 TO 5 hrs.
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
Special Topics 1 TO 3 hrs.
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
Drug Delivery Systems I 3 hrs.
The roles of dosage forms and drug delivery systems in healthcare. Pharmaceutical calculations included. **Prerequisite(s):** Acceptance into the Doctor of Pharmacy program.

PHAR 322
Drug Delivery Systems II 3 hrs.
Continuation of PHAR 321. The roles of additional dosage forms and drug delivery systems in healthcare. **Prerequisite(s):** PHAR 321.

PHAR 323
Drug Delivery Systems III 3 hrs.
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
Contemporary Pharmacy Practice 3 hrs.
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
Fundamentals of Drug Action I 5 hrs.
Introduction to basic concepts of drug chemistry and biological targets. Chemistry of simple biomolecules, 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
Fundamentals of Drug Action II 4 hrs.
Continuation of PHAR 331. Includes drug-receptor interactions, drug design, mechanistic enzymology, and cellular chemistry and immunology. **Prerequisite(s):** PHAR 331.

PHAR 333
Fundamentals of Drug Action III 4 hrs.
Continuation of PHAR 332. Topics of microbiology and virology, drug metabolism and chemical toxicology, basic clinical chemistry with laboratories. **Prerequisite(s):** PHAR 332.

PHAR 341
Roles, Environments, and Communications 3 hrs.
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 342
Experiential I—IPPE 2 hrs.
Introduction to contemporary pharmacy practice, including the Ashville Project, Project IMPACT, Cultural Competence, and controversial issues/topics in pharmacy practice. **Prerequisite(s):** PHAR 341 and a current pharmacy technician license in good standing.

PHAR 343
Pharmacy Systems Management 2 hrs.
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
Social and Behavioral Pharmacy 2 hrs.
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
Pharmacy Services and Reimbursement 2 hrs.
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
Experiential II—IPPE 2 hrs.
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
Experiential III—IPPE 2 hrs.
Students are given information and participate in exercises enabling them to develop skills as a pharmacist, specifically gathering, evaluating, documenting, and communicating information about therapeutic interventions and patient care. **Prerequisite(s):** PHAR 352 and third-year professional standing in the Doctor of Pharmacy Program.

PHAR 354
Experiential IV—
IPPE

2 hrs.

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
Principles of
Pharmacoeconomics and
Drug Treatment
Outcomes

2 hrs.

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 365
Nonprescription
Pharmaceuticals
and Herbal
Medicinals

3 hrs.

A pharmacotherapeutics course discussing the use of non-prescription drugs, supplies, and herbal medicinals with emphasis on the pharmacist's role as communicator, educator, and adviser to patients.

Prerequisite(s): Third-year professional standing in the Doctor of Pharmacy program or consent of the instructor.

PHAR 371
Ambulatory
Care—APPE

4 hrs.

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
Community
Practice—APPE

4 hrs.

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
Hospital
Practice—APPE

4 hrs.

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
Medicine—APPE

4 hrs.

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
Pharmacokinetics

3 hrs.

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
Principles of
Drug Action and
Therapeutics I

3 hrs.

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
Principles of
Drug Action and
Therapeutics II

4 hrs.

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
Principles of
Drug Action and
Therapeutics III

3 hrs.

Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of pain management and psychiatric disorders.

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
Principles of
Drug Action and
Therapeutics IV

3 hrs.

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
Principles of
Drug Action and
Therapeutics V

3 hrs.

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
Principles of
Drug Action and
Therapeutics VI

3 hrs.

Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the area of infectious disease. **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 407
Principles of
Drug Action and
Therapeutics VII

4 hrs.

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
Principles of
Drug Action and
Therapeutics VIII

3 hrs.

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
Roles,
Environments,
and
Communications

3 hrs.

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
Pharmacy Law

3 hrs.

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
Drug Information
and Statistics

4 hrs.

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**
Undergraduate
Research in
Pharmacy
Administration

1 TO 3 hrs.

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
Professional Development Seminar I 1 hr.
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
Professional Development Seminar II 1 hr.
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
Professional Development Seminar III 1 hr.
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
Professional Development Seminar IV 1 hr.
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
Special Topics in Pharmacy Administration 1 TO 3 hrs.
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
Special Projects in Pharmacy Administration 1 TO 2 hrs.
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
Pharmaceutical Marketing 3 hrs.
Introduction to the field of marketing with specific emphasis on pharmaceuticals and the marketing of pharmacy services.

PMAD 470
Managed Care Pharmacy 3 hrs.
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
Professional Practice Management 3 hrs.
Managerial functions of the pharmacist in all practice environments with emphasis on the planning, organizing, staffing, directing, and controlling of resources.

PMAD 484
Systematic Reviews and Meta-Analysis 3 hrs.
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
Special Topics in Pharmacy Administration 1 TO 3 hrs.
Topics will vary, including the on-going analysis of contemporary issues associated with delivery, financing, and management of pharmaceutical products and professional services. May be repeated to a maximum of 6 hours.

Pharmacy Practice
PMPR 325
Drugs and Society 2 hrs.
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
Topics for Professional Student Enrichment 1 hr.
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 345
Clinical Toxicology 3 hrs.
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
Seminar in Pharmacy Research 1 hr.
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): P-2 standing.

PMPR 356
The Role of the Pharmacist in Tobacco Cessation 2 hrs.
An in-depth knowledge base in smoking cessation, skills for counseling, and detailed "how to" information on specific counseling techniques.

PMPR 357
Natural and Recombinant Plasma-Derived Therapeutics 1 hr.
Introduction to plasma-derived therapeutics, including albumin, immune globulins, and factor products. Production, viral safety, and clinical applications will be covered. **Prerequisite(s):** P-3 class standing.

PMPR 358
Pharmaco-therapeutic Issues in Women's Health 1 hr.
Team taught case-based pharmacotherapeutic lecture course related to women's health.
Prerequisite(s): P-3 class standing or consent of the instructor.

PMPR 359
Topics and Issues in Clinical Post-graduate Training Programs 2 hrs.
Increases PharmD students' knowledge and professionalization about post-graduate training. Students will "shadow" residents or fellows during nonclass 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
Clinical Aspects of Drug Interactions, Metabolism, and Pharmacogenetics 2 hrs.
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 370
Pharmacy Grand Rounds 1 hr.
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
Professional Development Seminar I 1 hr.
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
Professional Development for Pharmacists 1 hr.

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
Pediatric Therapeutics 2 hrs.

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
Undergraduate Research in Pharmacy Practice 1 TO 3 hrs.

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 382
Ethical Considerations in the Practice of Pharmacy 2 hrs.

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 384
Advanced Ambulatory Care—APPE 4 hrs.

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
Special Topics of Current Interest in Pharmacy Practice 1 TO 3 hrs.

Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for two offering 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
Administrative—APPE 4 hrs.

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
Advanced Medicine—APPE 4 hrs.

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.

PMPR 388
Advanced Specialty—APPE 4 hrs.

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.

PMPR 389
Critical Care—APPE 4 hrs.

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.

PMPR 390
Special Projects in Pharmacy Practice 1 TO 2 hrs.

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.

PMPR 391
Drug Information—APPE 4 hrs.

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.

PMPR 392
Geriatric—APPE 4 hrs.

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.

PMPR 393
Kinetics—APPE 4 hrs.

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.

PMPR 394
Nutrition—APPE 4 hrs.

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.

PMPR 395
Pediatric—APPE 4 hrs.

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.

PMPR 396
Psychiatry—APPE 4 hrs.

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.

PMPR 397
Surgery—APPE 4 hrs.

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.

PMPR 398
Advanced Community Practice—APPE 4 hrs.

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.

PMPR 399
Home Health—APPE 4 hrs.

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.

PMMP 430
Critical Care I 2 hrs.
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.

PMMP 440
Applied Pharmacokinetics 2 hrs.
An elective course demonstrating practical application of pharmacokinetic principles. Previously listed as PMMP 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
Introduction to Philosophy 3 hrs.
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
Introductory Logic 3 hrs.
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
Introduction to Ethics 3 hrs.
Surveys attempts 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
Introduction to Social/Political Philosophy 3 hrs.
An introductory-level survey of one or more topics in social and/or political philosophy. Readings may include both classical and contemporary sources. • *Individual and Society course.*

PHIL 105
Science and Philosophy 3 hrs.
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
Understanding Art 3 hrs.
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
Philosophy of Love and Sex 3 hrs.
A philosophical inquiry into traditional and contemporary views about love and sex.

PHIL 112
Morality and the Law 3 hrs.
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
Death 3 hrs.
A philosophical examination of our attitudes towards death. Our attitudes towards mortality and immortality; definitions of death; treating others as persons; our attitudes towards life, and quality of life issues, suicide, rights of the dying. • *Individual and Society course.*

PHIL 116
Medical Ethics 3 hrs.
Moral issues as they arise in medical contexts, including such topics as abortion, euthanasia, paternalism, allocation of medical resources, and psychiatric issues.

PHIL 120
Introduction to Ancient Philosophy 3 hrs.
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
Philosophy of Consciousness 3 hrs.
A philosophical investigation into the nature and importance of consciousness as discussed in a variety of sources in philosophy, literature, and psychology.

PHIL 141
Philosophy and Revelation: Jewish and Christian Perspectives 3 hrs.
Introduction to philosophical ways of addressing the claim that a book (the Bible, the Quran) comes from God. Texts by Immanuel Kant, Moses Mendelssohn, and Soren Kierkegaard, among others. **Same as** RELS 141 and JST 141. • *Individual and Society, and World Cultures course.*

PHIL 201
Theory of Knowledge 3 hrs.
Basic issues concerning knowledge of the external world, other minds, scientific laws, and necessary truths. **Prerequisite(s):** One course in philosophy.

PHIL 202
Philosophy of Psychology 3 hrs.
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
Metaphysics 3 hrs.
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
Introduction to the Philosophy of Science 3 hrs.
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
Symbolic Logic 3 hrs.
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
Inductive Logic and Decision Making 3 hrs.
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
Ancient Philosophy I: Plato and His Predecessors 3 hrs.
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
Ancient Philosophy II: Aristotle and His Successors 3 hrs.
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
History of Modern Philosophy I: Descartes and His Successors 3 hrs.
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
History of Modern Philosophy II: Kant and His Predecessors 3 hrs.
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 226
Twentieth-Century Analytic Philosophy 3 hrs.
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
Continental Philosophy I: Phenomenology and Existentialism 3 hrs.
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
Topics in Ethics and Political Philosophy 3 hrs.
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
Sex Roles: Moral and Political Issues 3 hrs.
Philosophical inquiry into controversies surrounding the changing roles of men and women. **Same as** GWS 232.

PHIL 234
Philosophy and Film 3 hrs.
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 241
Philosophy of Religion 3 hrs.
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
Seminar 3 hrs.
Selected topics. May be repeated to a maximum of 6 hours. Students may register in more than one section per term. **Prerequisite(s):** One course in philosophy or consent of the instructor.

PHIL 399
Independent Study 2 TO 6 hrs.
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 400
Philosophical Writing 1 hr.
Philosophical issues covered will vary from semester to semester. Fulfills Writing-in-the-Discipline requirement. Must be taken in conjunction with designated 400-level courses. See the undergraduate adviser for details. **Prerequisite(s):** Major in philosophy and concurrent registration in a 400-level philosophy course as designated in the *Schedule of Classes*.

PHIL 401
Theory of Knowledge 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** PHIL 201 or consent of the instructor.

PHIL 403
Metaphysics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** PHIL 203 or PHIL 226 or PHIL 426 or consent of the instructor.

PHIL 404
Philosophy of Science 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** PHIL 102 or PHIL 210, and one 200-level course in philosophy; or consent of the instructor.

PHIL 406
Philosophy of Language 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** PHIL 102 or one 200- or 400-level logic course or PHIL 226 or consent of the instructor.

PHIL 410
Introduction to Formal Logic 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** PHIL 210 or consent of the instructor.

PHIL 416
Metalogic I 3 OR 4 hrs.
Metatheory for sentence and predicate logic. Completeness and compactness theorems and their applications. 3 undergraduate hours. 4 graduate hours. 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
Metalogic II 3 OR 4 hrs.
Effective computability and recursive functions. Peano arithmetic. Arithmetization of syntax. Incompleteness and undecidability: Gödel's and Church's theorems. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** PHIL 416 or consent of the instructor.

PHIL 420
Plato 3 OR 4 hrs.
Careful reading of selected works. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Aristotle 3 OR 4 hrs.
Careful reading of selected works. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Medieval Philosophy 0 TO 4 hrs.
Study of selected philosophers, such as Augustine, Boethius, Averroes, Maimonides, Aquinas, William of Ockham, Buridan, Suarez. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** PHIL 220 or PHIL 221 or PHIL 420 or PHIL 421 or consent of the instructor.

PHIL 423
Studies in Early Modern Philosophy 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Kant 3 OR 4 hrs.
Intensive study of Kant's metaphysics and theory of knowledge with main reading drawn from the Critique of Pure Reason. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** PHIL 223 or PHIL 224 or 3 courses in philosophy or consent of the instructor.

PHIL 425
Studies in Nineteenth-Century Philosophy 3 OR 4 hrs.
Careful reading of one or more post-Kantian philosophers such as Hegel, Schelling, Fichte, Schopenhauer, Marx, J.S. Mill, Kierkegaard, Nietzsche. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** One 200-level course in philosophy or consent of the instructor.

PHIL 426
Analysis and Logical Empiricism 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** PHIL 210 or PHIL 226 or consent of the instructor.

PHIL 427
Continental Philosophy II: European Thought since 1960 3 OR 4 hrs.
European thought since 1960: Existential Marxism; Critical Theory; Structuralism, Post-Structuralism and Deconstruction. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** PHIL 227 or consent of the instructor.

PHIL 429
Special Studies in the History of Philosophy 3 OR 4 hrs.
Advanced study of a historical school, period, or the development of a historical theme. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Ethics 3 OR 4 hrs.
Selected topics in moral philosophy, such as normative ethics, value theory, or meta-ethics. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Social/Political
Philosophy 3 OR 4 hrs.

Selected topics in social and political philosophy. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Topics in Ethics 3 OR 4 hrs.

Selected topics in ethics. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Topics in Social/
Political
Philosophy 3 OR 4 hrs.

Selected topics in social and political philosophy. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Topics in
Philosophy of
Religion 0 TO 4 hrs.

Intensive study of one or more selected topics concerning the philosophical aspects of basic religious beliefs and concepts. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) 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
Neuroscience I 3 hrs.

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
Neuroscience II 3 hrs.

Integrative 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**
Preparation for
Elementary
Physics
Sequences 3 hrs.

Provides smooth transition into PHYS 101 and PHYS 141. Overview of physics. Emphasis on word problems and applications of mathematics. Discussion of particle kinematics. Satisfactory/Unsatisfactory grading only. No graduation credit. **Prerequisite(s):** Eligibility determined by performance on the department placement test or recommendation of the department.

PHYS 104
Problem solving
Workshop for
Introductory
Physics I 1 hr.

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 and PHYS 106. Satisfactory/Unsatisfactory grading only. Must enroll concurrently in PHYS 105 and PHYS 106.

PHYS 105
Introductory
Physics I—
Lecture 4 hrs.

A noncalculus course. Kinematics; Newton's laws; momentum; work and energy; torque and angular momentum; rotational dynamics; gravitation; oscillations; waves physical; optics; relativity. Credit is not given for PHYS 105 if the student has credit for PHYS 101. 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
Introductory
Physics I—
Laboratory 1 hr.

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. Credit is not given for PHYS 106 if the student has credit for PHYS 101. 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
Introductory
Physics II—
Lecture 4 hrs.

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. Credit is not given for PHYS 107 if the student has credit for PHYS 102.

Prerequisite(s): PHYS 105 and PHYS 106. Must enroll concurrently in PHYS 108.

• *Natural World—No Lab course.*

PHYS 108
Introductory
Physics II—
Laboratory 1 hr.

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. Credit is not given for PHYS 108 if the student has credit for PHYS 102. Analyzing Natural World Credit 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
Astronomy and
the Universe 4 hrs.

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
Physics of Sports 4 hrs.

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
Physics of Sound
and Music 4 hrs.

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
Natural
Sciences—The
Physical Universe 4 hrs.

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
Problem solving
Workshop
for Natural
Sciences—The
Physical Universe 1 hr.

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
Physics of the
Environment 5 hrs.

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
General Physics I
(Mechanics) 4 hrs.

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
General Physics II (Electricity and Magnetism) 4 hrs.
 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
Problem Solving Workshop for General Physics I (Mechanics) 1 hr.
 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
Astrophysics 3 hrs.
 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 102 or PHYS 142 or consent of the instructor.

PHYS 215
Mathematical Methods for Physicists 4 hrs.
 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
Problem Solving Workshop for Mathematical Methods for Physicists 1 hr.
 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):** Grade of C or better in MATH 210. Must enroll concurrently in PHYS 215.

PHYS 244
General Physics III (Modern Physics) 3 hrs.
 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):** MATH 181; and grade of C or better in PHYS 142, or both PHYS 107 and PHYS 108 with an average grade of B or better.

PHYS 245
General Physics IV (Heat, Fluids, and Wave Phenomena) 4 hrs.
 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
Physics Seminar 1 hr.
 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 hours. **Prerequisite(s):** Senior standing.

PHYS 392
Physics Research 2 TO 4 hrs.
 Research under the close supervision of a faculty member. **Prerequisite(s):** Approval of the department.

PHYS 393
Special Problems 2 TO 4 hrs.
 Special problems or reading in modern physics under individual arrangement with a faculty member. **Prerequisite(s):** Approval of the department.

PHYS 401
Electromagnetism I 4 hrs.
 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
Electromagnetism II 4 hrs.
 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
Quantum Mechanics I 4 hrs.
 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 244.

PHYS 412
Quantum Mechanics II 4 hrs.
 Orbital angular momentum. Spin and vector addition of angular momenta; degenerate and non-degenerate perturbation theory; identical particles; time-dependent perturbation theory; scattering theory. **Prerequisite(s):** PHYS 411.

PHYS 421
Modern Physics: Atoms and Molecules 4 hrs.
 Hydrogenic atoms, electron spin, external fields, multielectron 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
Modern Optics 5 hrs.
 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
Modern Physics: Condensed Matter 4 hrs.
 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
Theoretical Mechanics 4 hrs.
 Variable motion, noninertial frames, oscillations, rigid body motion, three-dimensional motion, angular momentum, torque, orbits, Lagrange's equations. **Prerequisite(s):** PHYS 142 and PHYS 215.

PHYS 450
Molecular Biophysics of the Cell 4 hrs.
 Introduction to molecular length, time, force, energy scales; statistical thermodynamics of solutions; DNA, RNA, and protein structure and function; experimental methods. **Same as** BIOE 450. **Prerequisite(s):** PHYS 245 or the equivalent.

PHYS 451
Modern Physics: Nuclei and Elementary Particles 4 hrs.
 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
Thermal and Statistical Physics 4 hrs.
 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
Educational Practice with Seminar I 6 hrs.
 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
Educational Practice with Seminar II 6 hrs.
 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
Modern Experimental Physics I 4 hrs.
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
Modern Experimental Physics II 4 hrs.
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
Special Topics in Physics 1 TO 4 hrs.
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
Special Topics in Physics Teaching 2 TO 4 hrs.
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
Survey of Physics Problems 1 hr.
Problem solving techniques applied to the variety of undergraduate physics topics. May be repeated up to 1 time(s). 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
Human Physiology and Pathophysiology I 5 hrs.
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
Human Physiology and Pathophysiology II 5 hrs.
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 321
Human Physiology for Dental Students I 2 hrs.
The major concepts involved in the regulation of living processes are introduced. The underlying homeostasis and communication mechanisms by which the major systems are interrelated are emphasized. **Prerequisite(s):** Credit or concurrent registration in a 300-level biochemistry course.

PHYB 322
Human Physiology for Dental Students II 2 hrs.
Continuation of PHYB 321. A continuation of the major concepts involved in the regulation of living processes. The underlying homeostasis and communication mechanisms by which the major systems are interrelated are emphasized. **Prerequisite(s):** PHYB 321.

PHYB 341
Physiology 5 hrs.
Course designed for students in the College of Applied Health Sciences. Normal function of the human body at molecular, cell, tissue, organ, and system levels. **Prerequisite(s):** Enrollment in a degree program in the College of Applied Health Sciences.

PHYB 396
Independent Study 1 TO 4 hrs.
Independent study (non-laboratory) for advanced undergraduates majoring in appropriate disciplines. **Prerequisite(s):** Consent of the instructor.

PHYB 399
Laboratory Research 1 TO 4 hrs.
Laboratory research for advanced undergraduates majoring in appropriate disciplines. Satisfactory/Unsatisfactory grading only. **Prerequisite(s):** Consent of the instructor.

Policy Studies

PS 104
Race, Place, and Schooling: African Americans and Education 3 hrs.
This course will examine the social, political, cultural, and economic factors shaping African Americans' educational experiences in the United States historically and currently. **Same as** AAST 104.
• *Individual and Society, and US Society course.*

PS 361
Social Foundations of Education 3 hrs.
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.

PS 453
Topics in Education Policy 3 OR 4 hrs.
Workshop; emphasis on issues related to school organization, control and community relations. Topics are announced at the time the class is scheduled. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. **Prerequisite(s):** Advanced undergraduate or graduate standing.

Polish

POL 101
Elementary Polish I 4 hrs.
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
Elementary Polish II 4 hrs.
Continues POL 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** POL 101 or the equivalent.

POL 103
Intermediate Polish I 4 hrs.
Continues POL 102. **Prerequisite(s):** POL 102 or the equivalent.

POL 104
Intermediate Polish II 4 hrs.
Continues POL 103. **Prerequisite(s):** POL 103 or the equivalent.

POL 115
Introduction to Polish Culture 3 hrs.
Main trends in Polish culture in the context of parallel developments in Western European civilization. Taught in English.
• *World Cultures course.*

POL 120
The Polish Short Story in Translation 3 hrs.
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
Masterworks of Polish Literature in Translation 3 hrs.
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
Polish Drama in Translation 3 hrs.
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
Introduction to Polish Cinema 3 hrs.
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
History of Poland 3 hrs.
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
Mickiewicz and Sienkiewicz: Polish Romanticism and Realism 3 hrs.
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
Polish Composition and Conversation I 3 hrs.
Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. **Prerequisite(s):** POL 104 or the equivalent.

POL 302
Polish Composition and Conversation II 3 hrs.
Continues POL 301. **Prerequisite(s):** POL 301.

POL 321
Introduction to Polish Literature I 3 hrs.
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
Introduction to Polish Literature II 3 hrs.
Modern Polish literature in Poland and abroad. Taught in English. **Prerequisite(s):** Junior standing or consent of the instructor.

POL 399
Independent Study 1 TO 3 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Junior standing, consent of the instructor, and consent of the head of the department.

POL 401
Polish Composition and Conversation III 3 OR 4 hrs.
Development of oral and writing skills: expanding vocabulary and perfecting style. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** POL 302.

POL 402
Polish Composition and Conversation IV 3 OR 4 hrs.
Continues POL 401. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** POL 401 or the equivalent.

POL 410
Structure of Modern Polish 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** POL 402 or the equivalent.

POL 450
Studies in Polish Drama 3 OR 4 hrs.
Main trends in Polish drama, leading playwrights, their aesthetics and philosophy in the context of European drama from the Renaissance to the present. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** Advanced undergraduate standing.

POL 460
Studies in Polish Literature 3 OR 4 hrs.
Literary trends in Polish poetry and prose; their poetics, aesthetics, and philosophy in their European context. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** Advanced undergraduate standing.

POL 499
Independent Study 1 TO 4 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hours. 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
Introduction to American Government and Politics 3 hrs.
Introduction to American political ideas, individual and group political behavior, institutions of national government, and public policy. • *Individual and Society, and US Society course.*

POLS 103
Who Rules?: Introduction to the Study of Politics 3 hrs.
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. • *US Society course.*

POLS 105
Honors Seminar in Political Science 3 hrs.
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
United States Politics: Problems and Controversies 3 hrs.
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
African American Politics and Culture 3 hrs.
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 US Society course.*

POLS 120
Introduction to Political Theory 3 hrs.
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
Introduction to Comparative Politics 3 hrs.
Comparative study of political institutions, political culture, and political processes in selected major countries of the world. **Same as** LALS 130. • *Individual and Society, and World Cultures course.*

POLS 184
Introduction to International Relations 3 hrs.
Political, military, and economic relations between states, international organizations, and transnational actors. Problems of war, imperialism, and the world economy. Prospects for global cooperation. • *Individual and Society, and World Cultures course.*

POLS 190
Scope of Political Science 3 hrs.
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
Methods of Political Science 3 hrs.
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
Political Data Analysis 3 hrs.
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
Topics in Political Practice 3 hrs.
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
Political Behavior 3 hrs.
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
The Mass Media and Politics 3 hrs.
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
Latinos and Politics 3 hrs.
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. • *US Society course.*

POLS 210
Introduction to Urban Politics 3 hrs.
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
Chicago's Future 3 hrs.
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
State Government 3 hrs.
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
Political Interest Groups 3 hrs.
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
Political Parties 3 hrs.
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
Voting Behavior and Elections 3 hrs.
Examination of elections, voting behavior, election law, and voting theories and influences.
Prerequisite(s): Grade of C or better in POLS 101.

POLS 228
U.S. Congress 3 hrs.
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
The American Presidency 3 hrs.
Examination of such phenomena as presidential elections; the presidency and the Constitution; the presidency and public administration; the president as policy maker; presidential leadership. **Prerequisite(s):** POLS 101.

POLS 231
Politics in China 3 hrs.
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
Politics in Japan and Korea 3 hrs.
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
British Politics and Government 3 hrs.
Examination of the British political system.

POLS 234
Western European Politics and Government 3 hrs.
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
Politics and Government of Russia 3 hrs.
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
Politics and Government of Eastern Europe 3 hrs.
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
Government and Politics of Latin America 3 hrs.
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
Politics and Government of the Middle East 3 hrs.
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
Politics and Government of Africa 3 hrs.
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
Political Economies of Advanced Industrial Countries 3 hrs.
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
African Americans and the Law to 1954 3 hrs.
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 US Society course.*

POLS 252
African Americans and the Law, since 1954 3 hrs.
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 US Society course.*

POLS 258
The Judicial Process 3 hrs.
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
Gender in Latin America 3 hrs.
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
United States Foreign Policy 3 hrs.
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
National Model United Nations 3 hrs.
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
International Political Economy 3 hrs.
Political underpinnings and ramifications of international economic relations. Foreign trade policy, multinational corporations, oil North-South relations, economic warfare.
Prerequisite(s): POLS 184 or consent of the instructor.

POLS 284
International Security 3 hrs.
International conflict and cooperation, including war, nationalism, global inequality, and the environment.
Prerequisite(s): POLS 184 or consent of the instructor.

POLS 286
The United Nations and Other International Organizations 3 hrs.
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
International Law 3 hrs.
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
History of Political Thought I 3 hrs.
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
History of Political Thought II 3 hrs.
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
Possible Political Systems: Ideal and Actual 3 hrs.
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
Introduction to Marxism 3 hrs.
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
American Political Theories 3 hrs.
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
Symposium on Politics 3 hrs.
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 hours. Students may register in more than one section per term.
Prerequisite(s): Junior or senior standing or consent of the instructor.

POLS 301
Field Experience in Political Science 6 hrs.
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
Great Cities Internship 6 hrs.
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
Supervised Readings and Research 1 TO 3 hrs.
Supervised readings and research in political science. May be repeated to a maximum of 6 hours. Students may register in more than one section per term.
Prerequisite(s): Consent of the instructor.

POLS 305
Honors Course 3 TO 6 hrs.
Independent reading and research for students seeking departmental distinction. May be repeated to a maximum of 6 hours.
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
Political Psychology 3 hrs.
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
Topics in Political Behavior 3 hrs.
Intensive analysis of topics in political behavior. Possible topics include: elections and campaigns, political culture. May be repeated to a maximum of 6 hours.
Prerequisite(s): POLS 206 or consent of the instructor.

POLS 310
Governing the Megalopolis 3 hrs.
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
Black Politics in the United States 3 hrs.
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
Topics in Local Politics 3 hrs.
Intensive examination of selected problems of local politics. Actual research involvement. Topics vary. **Prerequisite(s):** POLS 101 and POLS 210.

POLS 313
Urban Political Economy 3 hrs.
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
Neighborhood and Community Political Organizations 3 hrs.
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
Seminar on American Politics 3 hrs.
Advanced seminar on special topics in American politics. Content varies. May be repeated to a maximum of 6 hours.
Prerequisite(s): POLS 101 and POLS 200.

POLS 348
Seminar: Political Problems of Developing Societies 3 hrs.
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
Topics in Comparative Politics 3 hrs.
Selected problems in comparative politics. May be repeated to a maximum of 6 hours if topics vary. **Prerequisite(s):** POLS 130 and POLS 200.

POLS 353
Constitutional Law 3 hrs.
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
The Constitution and Civil Liberties 3 hrs.
Civil rights, including religion, speech, assembly, press, and rights of the accused.
Prerequisite(s): POLS 101 or consent of the instructor.

POLS 356
Constitutional Law: Women, Gender, and Privacy 3 hrs.
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
Topics in Public Law 3 hrs.
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
International Relations Theory 3 hrs.
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
Seminar: Topics in International Relations 3 hrs.
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
Seminar in Political Theory 3 hrs.
Selected topics and problems in political theory. May be repeated to a maximum of 6 hours.
Prerequisite(s): POLS 120 and POLS 200.

POLS 401
Data Analysis I 3 OR 4 hrs.
Statistical inference for the social sciences. Emphasis on univariate and bivariate statistics. **Same as** PPA 401. 3 undergraduate hours, 4 graduate hours. **Prerequisite(s):** POLS 200 and POLS 201; or graduate standing.

POLS 405
The Problem of Justice 3 OR 4 hrs.
Premodern and modern views of justice and their practical utility in analyzing legislative, executive, and judicial programs for enhancing or restricting justice. **Same as** CRJ 405. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** CRJ 101, plus two 200-level courses in criminal justice or two 200-level courses in political science.

POLS 435
Special Topics in Bureaucracy 3 OR 4 hrs.
Consideration of timely or enduring issues in policy formation and bureaucracy not available in regularly offered courses. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. **Prerequisite(s):** POLS 460 or consent of the instructor.

POLS 451
Law and Public Policy 3 OR 4 hrs.
The role of law and legal institutions in the development and implementation of public policies. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Graduate standing or consent of the instructor.

POLS 465
Topics in Sociology of Politics 3 OR 4 hrs.
Intensive examination of a specialized topic announced when the class is scheduled. **Same as** SOC 465. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. 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
Public Opinion and Political Communication 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** POLS 200 or the equivalent or consent of the instructor.

POLS 482
Democratic Theory 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** POLS 290 or POLS 291 or consent of the instructor.

POLS 485
Gender and Politics 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** POLS 190 and one 200-level course in political theory; or consent of the instructor.

Portuguese
PORT 240
Rapid Portuguese for Spanish Speakers 4 hrs.
Characteristics of Portuguese grammar from the perspective of speakers of Spanish, leading to basic conversational skills in Portuguese. **Prerequisite(s):** Advanced student of Spanish and two 200-level Spanish courses or consent of the instructor.

Psychiatric Nursing
NUPS 400
Group Dynamics, Behavior, and Intervention 2 TO 3 hrs.
Concepts, theories, and research pertaining to group dynamics and to interventions carried out in groups. Analysis of videotaped group experience. Master of Science degree-seeking students in the Mental Health Nursing Concentration must register for 3 hours of credit. **Prerequisite(s):** Graduate standing or consent of the instructor.

Psychology
PSCH 100
Introduction to Psychology 4 hrs.
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
The Psychology of African Americans 3 hrs.
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 US Society course.*

PSCH 202
African American Behavioral Patterns 3 hrs.
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 US Society course.*

PSCH 210
Theories of Personality 3 hrs.
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
Community Psychology 3 hrs.
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
Introduction to Research in Psychology 3 hrs.
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):** Credit or concurrent registration in PSCH 100.

PSCH 262
Physiological Psychology 3 hrs.
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
Abnormal Psychology 3 hrs.
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
Writing in Psychology 3 hrs.
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
History of Psychology 3 hrs.
The history of scientific psychology with emphasis on forerunners of modern psychological issues. **Prerequisite(s):** 15 hours in psychology.

PSCH 312
Social Psychology 3 hrs.
Survey of theory and research in social psychology, emphasizing experimental investigations of attitudes and social cognition, and interpersonal relations and group processes. **Prerequisite(s):** PSCH 242.

PSCH 313
Laboratory in Social Psychology 2 hrs.
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
Psychology of Women and Gender 3 hrs.
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):** PSCH 242 or consent of the instructor.

PSCH 320
Developmental Psychology 3 hrs.
Analysis of research and theory concerning social, cognitive, and biopsychological aspects of human development. **Prerequisite(s):** PSCH 242.

PSCH 321
Laboratory in Developmental Psychology 2 hrs.
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
Industrial and Organizational Psychology 3 hrs.

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):** PSCH 242.

PSCH 331
Community and Prevention Research 3 hrs.

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
Psychological Testing 3 hrs.

Introduction to principles of psychological assessment, with an overview of representative techniques. Particular emphasis is placed on objective tests. Demonstrations of the various assessment modes are presented during lecture and conference sections. **Prerequisite(s):** PSCH 242.

PSCH 343
Statistical Methods in Behavioral Science 3 hrs.

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
Sensation and Perception 3 hrs.

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):** PSCH 242.

PSCH 351
Laboratory in Perception 2 hrs.

Laboratory practicum in sensation and perception. **Prerequisite(s):** PSCH 343, and credit or concurrent registration in PSCH 350.

PSCH 352
Cognition and Memory 3 hrs.

Survey of experimental findings in human learning, memory, attention, knowledge representation, problem solving, conceptual behavior, and psycholinguistics. **Prerequisite(s):** PSCH 242.

PSCH 353
Laboratory in Cognition and Memory 2 hrs.

Laboratory practicum in memory, psycholinguistics, problem solving, and reasoning. **Prerequisite(s):** PSCH 343, and credit or concurrent registration in PSCH 352.

PSCH 354
Knowledge Acquisition 3 hrs.

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):** PSCH 242.

PSCH 360
Learning and Conditioning 3 hrs.

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):** PSCH 242.

PSCH 361
Laboratory in Learning and Conditioning 2 hrs.

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
Laboratory in Physiological Psychology 2 hrs.

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
Psychology of Interviewing 3 hrs.

Theory, research, and practice of interviewing. Emphasis on developing skills for interviewing individuals. **Prerequisite(s):** PSCH 210 or PSCH 231, and PSCH 340 or PSCH 343.

PSCH 382
Psychological Interventions 3 hrs.

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 and PSCH 270 and PSCH 343.

PSCH 383
Psychology of Groups 3 hrs.

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, and PSCH 340 or PSCH 343.

PSCH 385
Fieldwork in Applied Psychology 3 hrs.

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 10 courses in psychology, including all other required courses in the Applied Concentration.

PSCH 394
Special Topics in Psychology 1 TO 3 hrs.

Lectures devoted to an announced topic. May be repeated to a maximum of 6 hours. Students may register in more than one section per term. **Prerequisite(s):** PSCH 242.

PSCH 395
Seminar in Psychology 1 TO 3 hrs.

Seminar devoted to special topics in psychology. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 6 hours. Students may register in more than one section per term. **Prerequisite(s):** PSCH 242.

PSCH 396
Directed Research 1 TO 3 hrs.

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 385, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. **Prerequisite(s):** PSCH 242 and consent of the instructor and director of undergraduate studies.

PSCH 397
Readings in Psychology 1 TO 3 hrs.

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 385, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. **Prerequisite(s):** PSCH 343, a 3.00 grade point average, and consent of the instructor and the director of undergraduate studies.

PSCH 399
Independent Research 1 TO 4 hrs.

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 385, 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
Stereotyping, Prejudice, and Racism 3 hrs.

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
Social Bases of Health Behavior 3 hrs.

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
Psychology and Law 3 hrs.

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
Social Development of Urban Children 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Admission to a graduate program in education or psychology, or consent of the instructor.

PSCH 422
Advanced Developmental Psychology and Educational Processes 3 hrs.
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
Characteristics of Early Adolescence 3 hrs.
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
Constructivist Approaches to Development: Piaget and Vygotsky 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** ED 422 or PSCH 422 or the equivalent and graduate standing in psychology or consent of the instructor.

PSCH 443
Advanced Statistics 3 hrs.
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
Cognitive Psychology of Memory and Attention 3 hrs.
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
Cognitive Psychology of Language 3 hrs.
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
Cognitive Psychology of Thinking 3 hrs.
Introduce 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
Cognitive Psychology of Skill and Knowledge Acquisition 3 hrs.
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
Cognitive Methods 3 hrs.
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
Advanced Learning 3 hrs.
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
Neural Basis of Learning and Memory 3 hrs.
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
Neural Basis of Perception 3 hrs.
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
Neural Basis of Motivation 3 hrs.
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
Fundamentals of Neuroscience 3 hrs.
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
Interviewing 1 hr.
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
Neuroanatomy 4 hrs.
Organization of the nervous system, with an emphasis on mammals. **Same as** BIOS 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
Neuroscience I 3 hrs.
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
Neuroscience II 3 hrs.
Integrative 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
Special Topics in Psychology 1 TO 4 hrs.
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
Seminar in Psychology 1 TO 3 hrs.
Seminar devoted to special topics in psychology. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 9 hours. Students may register in more than one section per term. **Prerequisite(s):** Graduate standing or consent of the instructor.

Public Administration

PA 300
Introduction to Urban Policy Processes 3 hrs.
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. **Same as** UPA 300. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs and college-level microeconomics; or consent of the instructor.

PA 303
Urban Government I: Managing the Internal Environment 3 hrs.
Personnel management, organizing, budgeting, finance, leadership, motivation, economic development, accountability, ethics, legal, and constitutional foundations. **Same as** UPA 303. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

PA 305
Urban Government II: Managing the External Environment 3 hrs.

Intergovernmental finance, inter-jurisdictional competition, intergovernmental cooperation, intergovernmental cooperative agreements, and contractual and informal relations with non-profit organizations and governmental actors. **Same as UPA 305.** **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

PA 307
E-Government in Urban and Public Affairs 3 hrs.

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. **Same as UPA 307.** **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

PA 400
Public Administration Theory 3 OR 4 hrs.

Public Administration 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 hours. 4 graduate hours. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 407
Data Analysis for Public Administration 4 hrs.

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
Economics for Public Administration and Policy Decisions 3 OR 4 hrs.

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 hours. 4 graduate hours. **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
Organization Theory and Public Management 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 460
Data Management 4 hrs.

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
Management of Information Technology in Government 4 hrs.

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 463
The Internet and Public Administration 4 hrs.

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
Technology and Innovation Theory 4 hrs.

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 466
Science, Technology, and Public Policy 4 hrs.

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 493
Topics in Urban and Public Affairs and Administration 3 hrs.

In-depth study of selected issues on urban and public affairs. **Same as UPA 493.** May be repeated to a maximum of 6 hours. 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.

PA 494
Special Topics in Public Administration 3 OR 4 hrs.

Consideration of timely or enduring issues in public administration not available in regularly offered courses. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** Admission to the MPA program or consent of the instructor.

PA 496
Senior Capstone Experience in Urban and Public Affairs I: Public Administration 3 hrs.

Selection of capstone topic and introductory research on that topic. **Same as UPA 496.** **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

PA 497
Senior Capstone Experience in Urban and Public Affairs II: Public Administration 3 hrs.

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/PA 496. **Same as UPA 497.** **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

PA 499
Independent Study in Urban Planning and Public Affairs and Administration 1 TO 3 hrs.

Provides an opportunity for students to pursue an independent project that is not available through the required UPA course work. **Same as UPA 499.** May be repeated for a maximum of 6 hours. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

Public Health Nursing

NUPH 400
Introduction to Occupational Health Nursing 2 hrs.

Theoretical bases for application of public health nursing practice to working population in occupational settings. **Prerequisite(s):** Consent of the instructor.

Religious Studies

RELS 115
Understanding the Bible as Literature 3 hrs.

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
Catholic Thought: An Introduction 3 hrs.

Introduction to the main topics, interests, and methods of Catholic thought. **Same as CST 120.**
• *Past course.*

RELS 124
Hebrew Bible 3 hrs.

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
Introduction to Islam 3 hrs.
Introductory study of the religion, culture, and present variety of Islam in Islamic countries and in the West.
• *World Cultures course.*

RELS 141
Philosophy and Revelation: Jewish and Christian Perspectives 3 hrs.
Introduction to philosophical ways of addressing the claim that a book (the Bible, the Quran) comes from God. Texts by Immanuel Kant, Moses Mendelssohn, and Søren Kierkegaard, among others.
Same as JST 141 and PHIL 141.
• *Individual and Society, and World Cultures course.*

RELS 150
Catholicism in U.S. History 3 hrs.
The Catholic experience in the United States from its colonial origins to the present. **Same as** CST 150 and HIST 150.
• *US Society course.*

RELS 193
The Divine Comedy 3 hrs.
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
Topics in Muslim-Jewish Relations 3 hrs.
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** CL 225 and JST 225.

RELS 230
Topics in Islam 3 hrs.
Topics, issues, and methodologies in Islamic studies. May be repeated if topics vary.
Recommended background: ENGL 160.
• *World Cultures course.*

RELS 235
Introduction to Jewish Thought I 3 hrs.
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** CL 235 and JST 235. **Prerequisite(s):** Sophomore standing or above.

RELS 242
The History of Jewish Biblical Interpretation 3 hrs.
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
Sociology of Religion 3 hrs.
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 US Society course.*

RELS 250
Eastern and Western Philosophies of Religion 3 hrs.
Eastern and Western philosophies of religion: Hinduism, Buddhism, Judaism, and Christianity.
• *World Cultures course.*

RELS 254
Prophets in Judaism and Islam 3 hrs.
A cross-cultural survey of prophets. Texts include the Hebrew Bible, the Quran, and Islamic and Jewish exegetical material. **Same as** CL 254 and JST 254.
• *Past course.*

RELS 255
Religious Diversity: Conceptual and Practical Issues 3 hrs.
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
Religious Experiences in American History 3 hrs.
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
Topics in Catholic History 3 hrs.
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
Topics in Catholic Thought 3 hrs.
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
Gender and Sexuality in Early Christianity and Judaism 3 hrs.
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
Major Religious Thinkers 3 hrs.
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
The Quran 3 hrs.
Introduction to the text, history of interpretation, and the significance of the Quran. **Prerequisite(s):** Junior standing or above; or consent of the instructor and one 200-level course in Islamic studies.

RELS 343
Literature and Religion 3 hrs.
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
Major Problems in Religious Studies 3 hrs.
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
Topics in Catholic History and Culture 3 hrs.
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
Independent Study 1 TO 3 hrs.
Selected topics for individual study. May be repeated to a maximum of 6 hours. 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
Race, Ethnicity, and Gender in American Religion 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** SOC 100 and junior standing or above; or consent of instructor.

RELS 478
The Bible as Literature 3 OR 4 hrs.
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 hours. 4 graduate hours. **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
Topics in Religious History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** HIST 495. 3 undergraduate hours. 4 graduate hours. 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**

Elementary Russian I 4 hrs.
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

Elementary Russian II 4 hrs.
Continues RUSS 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** RUSS 101 or the equivalent.

RUSS 103

Intermediate Russian I 4 hrs.
Continues RUSS 102. Four additional half hours each week in the language laboratory. **Prerequisite(s):** RUSS 102 or the equivalent.

RUSS 104

Intermediate Russian II 4 hrs.
Continues RUSS 103. Four additional half hours each week in the language laboratory. **Prerequisite(s):** RUSS 103 or the equivalent.

RUSS 115

Russian Culture before the Revolution 3 hrs.
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

Russian Culture: The Soviet Period 3 hrs.
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

The Russian Short Story in Translation 3 hrs.
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

Masterpieces of Russian Literature in Translation 3 hrs.
Introduction to Russian novellas and novels of the nineteenth and twentieth centuries. • *Creative Arts, and World Cultures course.*

RUSS 150

Introduction to Russian Cinema 3 hrs.
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

Dostoyevsky 3 hrs.
Selected short stories and novels. Taught in English. • *Creative Arts course.*

RUSS 242

Tolstoy 3 hrs.
Discussion of selected short stories and plays. Taught in English. • *Creative Arts course.*

RUSS 244

Women in Russian Literature 3 hrs.
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

Russian Composition and Conversation I 3 hrs.
Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. **Prerequisite(s):** RUSS 104 or the equivalent.

RUSS 302

Russian Composition and Conversation II 3 hrs.
Continues RUSS 301. **Prerequisite(s):** RUSS 301 or the equivalent.

RUSS 321

Introduction to Russian Literature I 3 hrs.
Literature of the nineteenth century. Taught in English. **Prerequisite(s):** Junior standing or consent of the instructor.

RUSS 322

Introduction to Russian Literature II 3 hrs.
Literature of the twentieth century. Taught in English. **Prerequisite(s):** Junior standing or RUSS 321 or consent of the instructor.

RUSS 399

Independent Study 1 TO 3 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Junior standing, consent of the instructor and the head of the department.

RUSS 401

Russian Composition and Conversation III 3 OR 4 hrs.
Oral presentations, compositions, conversation: daily life and current events. Problems of grammar and syntax. Improving pronunciation and intonation. Reading. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** RUSS 302 or the equivalent.

RUSS 402

Russian Composition and Conversation IV 3 OR 4 hrs.
Continuation of RUSS 401. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** RUSS 401 or the equivalent.

RUSS 410

Structure of Modern Russian 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** At least 4 semester hours of Russian or the equivalent.

RUSS 450

Studies in the Russian Novel 3 OR 4 hrs.
Study of a major novelist, movement, or special themes. Content varies. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** 24 hours of Russian or consent of the instructor.

RUSS 460

Studies in Russian Literature 3 OR 4 hrs.
Study of a major author, movement, genre, or special topic. Content varies. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** 24 hours of Russian or consent of the instructor.

RUSS 499

Independent Study 1 TO 4 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hours. 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**

Elementary Serbian I 4 hrs.
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

Elementary Serbian II 4 hrs.
Continues SLAV 101. Four additional half hours each week in the language laboratory. **Prerequisite(s):** SLAV 101 or the equivalent.

SLAV 103

Intermediate Serbian I 4 hrs.
Continues SLAV 102. **Prerequisite(s):** SLAV 102 or the equivalent.

SLAV 104

Intermediate Serbian II 4 hrs.
Continues SLAV 103. **Prerequisite(s):** SLAV 103 or the equivalent.

SLAV 111

Elementary Ukrainian I 4 hrs.
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

Elementary Ukrainian II 4 hrs.
Continues SLAV 111. Four additional half hours each week in the language laboratory. **Prerequisite(s):** SLAV 111 or the equivalent.

SLAV 113

Intermediate Ukrainian I 4 hrs.
Continues SLAV 112. Four additional half hours each week in the language laboratory. **Prerequisite(s):** SLAV 112 or the equivalent.

SLAV 114

Intermediate Ukrainian II 4 hrs.
Continues SLAV 113. Four additional half hours each week in the language laboratory. **Prerequisite(s):** SLAV 113 or the equivalent.

SLAV 115

Serbian Culture 3 hrs.
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
Old Slavic and Ukrainian Folklore and Mythology 3 hrs.
The mythology and folklore of the Ukrainian culture and its close interrelationship with other Old Slavic mythologies and folklores.
• *World Cultures course.*

SLAV 219
Serbian Folklore and Folk Mythology 3 hrs.
Serbian folk tales, epic and lyric poetry, and related traditional beliefs, customs, and ethical norms. Taught in English.
• *World Cultures course.*

SLAV 222
Modern Serbian Literature 3 hrs.
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
Serbian Composition and Conversation I 3 hrs.
Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. **Prerequisite(s):** SLAV 104 or the equivalent.

SLAV 302
Serbian Composition and Conversation II 3 hrs.
Continues SLAV 301. **Prerequisite(s):** SLAV 301 or the equivalent.

SLAV 324
Writing about Literature 3 hrs.
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
Independent Study 1 TO 3 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Junior standing, consent of the instructor and the head of the department.

SLAV 405
Problems in Slavic Grammars 3 OR 4 hrs.
Systematic review of important topics in grammar and syntax. Content varies. Required for department undergraduate majors in Slavic programs. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** RUSS 302 or POL 302 or SLAV 302 or the equivalent.

SLAV 410
Structure of Modern Serbian 3 OR 4 hrs.
A synchronic linguistic analysis of Serbian phonology and morphology, with fundamentals of syntax. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SLAV 104 or the equivalent or consent of the instructor.

SLAV 433
Topics in Eastern European History 3 OR 4 hrs.
Specific topics are announced each term. **Same as** HIST 433. 3 undergraduate hours. 4 graduate hours. 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.

SLAV 460
Studies in East European Literatures and Culture 3 OR 4 hrs.
Study of a topic, author, genre, or movement. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** 24 hours of Slavic or Baltic or consent of the instructor.

SLAV 470
Educational Practice with Seminar I 6 hrs.
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
Educational Practice with Seminar II 6 hrs.
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
Independent Study 1 TO 4 hrs.
Investigation of special problems under the general direction of a staff member. May be repeated to a maximum of 8 hours. 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
Introduction to Sociology 3 hrs.
Analysis of human societies, organizations and groups, and the interrelations among individuals, groups, and societies.
• *Individual and Society, and US Society course.*

SOC 105
Social Problems 3 hrs.
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 US Society course.*

SOC 125
Introduction to Asian American Studies 3 hrs.
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 US Society course.*

SOC 201
Introductory Sociological Statistics 4 hrs.
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
The African American Family in the United States 3 hrs.
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 US Society course.*

SOC 212
Human Sexuality: Social Perspectives 3 hrs.
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 224
Gender and Society 3 hrs.
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 US Society course.*

SOC 225
Racial and Ethnic Groups 3 hrs.
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 US Society course.*

SOC 226
Latinas in the United States 3 hrs.
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
Sociology of Asia and Asian Americans 3 hrs.
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 US Society course.*

SOC 231
Criminology 3 hrs.
Introductory survey of the literature developed by criminologists in their study of crime in American society. **Same as** CRJ 220. **Prerequisite(s):** CRJ 101.

SOC 241
Social Inequalities 3 hrs.
Dimensions of inequality: economy, education, housing, healthcare; power, status, and self-esteem; inequality and social policy. **Prerequisite(s):** SOC 100.
• *Individual and Society, and US Society course.*

SOC 244
Sociology of Work 3 hrs.
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 US Society course.*

SOC 245
Marriage and Family 3 hrs.
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 US Society course.*

SOC 246
Sociology of Religion 3 hrs.
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 US Society course.*

SOC 251
Health and Medicine 3 hrs.
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 US Society course.*

SOC 258
Race and Urban Life 3 hrs.
Examines the experiences of Blacks in urban areas since the 1900s. **Same as** AAST 258.

SOC 265
Sociology of Politics 3 hrs.
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
Introduction to Comparative Sociology 3 hrs.
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
African Americans and the Politics of Incarceration 3 hrs.
Examination of the status of African Americans as offenders, victims, and personnel within the criminal justice system. **Same as** AAST 271 and CRJ 271. Previously listed as SOC 371. **Prerequisite(s):** AAST 100 or CRJ 101 or SOC 100; or consent of the instructor.
• *Individual and Society, and US Society course.*

SOC 276
Urban Sociology 3 hrs.
Examination of the history, patterns, and consequences of urban places and life in those places. **Prerequisite(s):** SOC 100.
• *Individual and Society, and US Society course.*

SOC 296
Supervised Study or Research 1 TO 3 hrs.
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
Internship in Sociological Applications 3 hrs.
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
Introduction to Sociological Research Methods 4 hrs.
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
Introduction to Sociological Theory 3 hrs.
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
Sociological Statistics 0 TO 4 hrs.
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. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SOC 201 and SOC 202; or consent of the instructor.

SOC 402
Intermediate Sociological Statistics 0 TO 4 hrs.
The general linear model emphasizing regression. Analysis of variance and covariance. Simple structural equation models. Simple categorical methods. Elementary matrix algebra. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SOC 401.

SOC 405
Writing in the Social Sciences 3 OR 4 hrs.
Leads to effective, clear writing for a social science audience. Teaches how to organize ideas, avoid tiresome jargon, and write with precision. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division social science courses.

SOC 406
Urban Ethnography 3 OR 4 hrs.
The study of processes and meanings in African American communities in urban areas, interviews, participant observation, focus groups. **Same as** AAST 405. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** AAST 100; and junior standing or above.

SOC 407
Seminar in Comparative Racialization 3 OR 4 hrs.
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
Sociology of Gender 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or gender and women's studies courses or consent of the instructor.

SOC 425
Race and Ethnicity 3 OR 4 hrs.
Critical examination of the conceptual frameworks and empirical findings in the study of race and ethnicity. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SOC 225 an additional 200- or 300-level elective in sociology; or consent of the instructor.

SOC 426
Topics in Race, Ethnicity, and Gender 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated up to 2 times. 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 440
Topics in Organizations and Institutions 3 OR 4 hrs.
Intensive examination of a specialized topic announced when the class is scheduled. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 441
Social Stratification 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 445
Sociology of the Family 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 446
Race, Ethnicity, and Gender in American Religion 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** SOC 100 and junior standing or above; or consent of instructor.

SOC 447
Organizations 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology, management, or political science; or consent of the instructor.

SOC 448
Sociology of Development 3 OR 4 hrs.
Historical, economic, political, social, and geographic factors shaping national and international development experiences and outcomes. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division social science courses or consent of the instructor.

SOC 451
Medical Sociology 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 455
Topics in Medical Sociology 3 OR 4 hrs.
Intensive examination of a specialized topic announced when the class is scheduled. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. Students may register in more than one section per term. **Prerequisite(s):** SOC 451 or consent of the instructor.

SOC 465
Topics in Sociology of Politics 3 OR 4 hrs.
Intensive examination of a specialized topic announced when the class is scheduled. **Same as** POLS 465. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. 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
Population 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology, including SOC 201, or consent of the instructor.

SOC 473
Cities and Regions 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology, including SOC 201, or consent of the instructor.

SOC 476
Topics in Urban Sociology 3 OR 4 hrs.
Intensive examination of a specialized topic announced when the class is scheduled. 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 12 hours. 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
Classical Sociological Theory 3 OR 4 hrs.
Survey and analysis of classical European and American social theory, such as Marx, Weber, Durkheim, Veblen, and Park. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 487
Contemporary Sociological Theory 3 OR 4 hrs.
Review and evaluation of major currents in sociological theory since the 1940s. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** 6 hours of upper-division sociology or consent of the instructor.

SOC 490
Senior Research Experience 4 hrs.
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
Independent Study or Research 1 TO 9 hrs.
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
Senior Thesis 1 TO 4 hrs.
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 100
Elementary Spanish Review 4 hrs.
Practice in listening and speaking. Emphasis on communication. Completion leads to SPAN 103. For students with two or three years of high school Spanish. Language laboratory required. **Prerequisite(s):** Two or three years of high school Spanish and placement by the department.

SPAN 101
Elementary Spanish I 4 hrs.
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
Elementary Spanish II 4 hrs.
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
Elementary Spanish III 4 hrs.
Continuation of SPAN 102 and SPAN 110. 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
Topics in Spanish Language and Culture 4 hrs.

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 110
Elementary Spanish Review 4 hrs.

Practice in listening and speaking. For students with two or more years of high school Spanish. Credit is not given for SPAN 110 if the student has credit for SPAN 101 or SPAN 102. 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 Internet connection, while not required, is strongly suggested. **Prerequisite(s):** Two or more years of high school Spanish and placement by the department.

SPAN 112
Spanish for Students from Hispanic Background I 4 hrs.

Principal emphasis is on writing and reading. For students of Hispanic background who have some knowledge of Spanish. **Prerequisite(s):** Placement by department.

SPAN 113
Spanish for Students from Hispanic Background II 4 hrs.

Continuation of SPAN 112. Introduction of Hispanic literature selections, as well as continued emphasis on writing and vocabulary building. **Prerequisite(s):** SPAN 112 or placement by the department.

SPAN 114
Spanish for Students from Hispanic Background III 4 hrs.

Continuation of SPAN 113. Increased emphasis on composition and reading ability. **Prerequisite(s):** SPAN 113.

SPAN 190
Contemporary Latin American Literature in Translation 3 hrs.

Major works of the literatures of Spanish America. Reading of Asturias, Borges, Garcia Marquez, and others. Does not count toward Spanish major or minor. • *Creative Arts, and World Cultures course.*

SPAN 192
From the Convent to the Streets: Latin American Women Writers in Translation 3 hrs.

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 193
Spanish Literature in Translation 3 hrs.

Major works of the literature of Spain, from medieval to modern. Readings from the epic, the picaresque novel, Celestina, Garcia Lorca, Cela, and others. Taught in English. • *Creative Arts, and World Cultures course.*

SPAN 196
Totalitarianism, Writing and Cinema 3 hrs.

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
Conversational Spanish 3 hrs.

Practice of conversational strategies for developing communicative competence in Spanish. Review of basic grammatical structures. Not open to fluent Spanish speakers. **Prerequisite(s):** SPAN 104.

SPAN 201
Spanish Composition 3 hrs.

Development and practice of basic techniques in Spanish composition without forgoing conversational practice. Review and practice of grammar. **Prerequisite(s):** SPAN 114 or SPAN 200.

SPAN 205
Introduction to Spanish Phonetics 3 hrs.

Introductory analysis of and practice in the Spanish sound system. Contrastive work in English and Spanish sounds. Laboratory and recording exercises. **Prerequisite(s):** SPAN 114 or SPAN 200.

SPAN 210
Introduction to the Reading of Hispanic Texts 3 hrs.

Close reading of Hispanic short stories, poems, and one-act plays. Application of basic literary concepts through the writing of critical analyses. **Prerequisite(s):** SPAN 105 or SPAN 107 or SPAN 114 or placement by the department. • *Creative Arts, and World Cultures course.*

SPAN 211
Introduction to the Analysis of Hispanic Texts 3 hrs.

Close reading of short novels and dramas. Writing of critical analyses using concepts such as irony, narrative voice, and treatment of time. **Prerequisite(s):** SPAN 210. • *Creative Arts, and World Cultures course.*

SPAN 220
Spanish for Business and Law 3 hrs.

Practice in conversation, composition, and grammar, emphasizing usage specific to the areas of business and law. **Prerequisite(s):** SPAN 105 or SPAN 107 or SPAN 114.

SPAN 221
Spanish for Health Personnel 3 hrs.

Practice in conversation, composition, and grammar, emphasizing usage specific to the health fields. **Prerequisite(s):** SPAN 105 or SPAN 107 or SPAN 114.

SPAN 230
Civilization and Culture of Spain 3 hrs.

Cultural aspects of Spanish civilization. **Prerequisite(s):** SPAN 201 or consent of the instructor.

SPAN 231
Civilization and Culture of Spanish America 3 hrs.

Cultural aspects of Spanish-American civilization. **Prerequisite(s):** SPAN 201 or consent of the instructor. • *Past, and World Cultures course.*

SPAN 260
Meso-American Literature and Culture 3 hrs.

Reading, discussion, and written analysis of works by Mexican, Caribbean, and Central American writers. **Prerequisite(s):** Proficiency in Spanish. • *Creative Arts, and World Cultures course.*

SPAN 261
South American Literature and Culture 3 hrs.

Reading, discussion, and written analysis of works by South American writers. **Prerequisite(s):** Proficiency in Spanish. • *Creative Arts, and World Cultures course.*

SPAN 278
Latin American/Latino Film Studies 3 hrs.

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** LALS 278. **Prerequisite(s):** LALS 101 or LALS 102 or LALS 109.

SPAN 295
Latino Literary Studies 3 hrs.

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. • *US Society course.*

SPAN 300
Introduction to Hispanic Linguistics 3 hrs.

Description of the Spanish linguistic system, its dialects, and history. **Prerequisite(s):** SPAN 201 or consent of the instructor.

SPAN 303
Advanced Spanish Composition 3 hrs.

Practice in advanced techniques in Spanish composition without forgoing conversational practice. Models from representative Spanish essays and short stories. Review of selected syntactic structures. **Prerequisite(s):** SPAN 201 or consent of the instructor.

SPAN 305
Advanced Spanish Grammar 3 hrs.

Study of syntactic and morphological structures of the Spanish language. **Prerequisite(s):** SPAN 201 and SPAN 210, or consent of the instructor.

SPAN 306
Introduction to the Writing of Poetry 3 hrs.
An introductory course in the reading and writing of Spanish and Latin American poetry. **Prerequisite(s):** SPAN 210 and SPAN 211 and SPAN 303; and consent of the instructor.

SPAN 310
Early Spanish Literature and Society 3 hrs.
Significant literary texts from 1140–1700 considered in relation to their cultural background, social relevance, and influence. **Prerequisite(s):** SPAN 211.

SPAN 311
Modern Spanish Literature and Society 3 hrs.
Representative works from the Enlightenment to the present; Becquer, Galdos, Machado, Valle-Inclan, Lorca, Delibes, and others. **Prerequisite(s):** SPAN 211 or the equivalent.

SPAN 312
Spanish American Literature and Society 3 hrs.
The evolution of Spanish American literature and society from Columbus to the New Novelists, from European projection to New World synthesis. **Prerequisite(s):** SPAN 211.

SPAN 314
Spanish American Literature from Columbus to Modernismo 3 hrs.
An examination of primary intellectual and aesthetic issues in representative texts of the Spanish American literary tradition from Columbus to Modernismo. **Prerequisite(s):** SPAN 211; and sophomore standing or above.

SPAN 315
Spanish American Literature since Modernismo 3 hrs.
An examination of primary intellectual and aesthetic issues in representative texts of the contemporary Spanish American literary tradition. **Prerequisite(s):** SPAN 211; and sophomore standing or above.

SPAN 320
Advanced Business Spanish 3 hrs.
Communicative skills and the specialized vocabulary of commerce through readings, standard documents, and simulations of business negotiations. Emphasis on Hispanic business culture and value systems. **Prerequisite(s):** SPAN 220 and SPAN 303 and ECON 120 and ECON 121; or consent of the instructor.

SPAN 360
Study Abroad 0 TO 18 hrs.
Studies in Spanish language, literature, history, and culture offered by the University Junior Year Abroad Program in Spain. May be repeated up to 1 time(s). **Prerequisite(s):** SPAN 104 or SPAN 114, and admission to the Year Abroad Program.

SPAN 370
Writing and Research in the Major 1 hr.
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
Topics in Hispanic Literature and Culture 3 hrs.
A thematic study of Hispanic literature and culture. May be repeated to a maximum of 6 hours. Taught in Spanish. **Prerequisite(s):** Sophomore standing or above and two 200-level Spanish courses and consent of the instructor.

SPAN 390
Senior Seminar: Topics in Research and Writing 3 hrs.
Critical approaches to a major author, field, or genre in Hispanic studies; completion of an in-depth research paper related to the course topic. **Prerequisite(s):** 24 advanced hours in Spanish, including at least one course from SPAN 310, SPAN 311, or SPAN 312; or consent of the instructor.

SPAN 400
History of the Spanish Language 3 OR 4 hrs.
Origins and development of Spanish; phonological, morphological, syntactic development of the language; foreign influences; origin of dialects. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 205 or SPAN 300 or consent of the instructor.

SPAN 402
Spanish Syntax 3 OR 4 hrs.
Structure of the grammatical system of Spanish. Analysis of the most important syntactic phenomena with emphasis on the meaning and function of grammatical forms. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 305 or consent of the instructor.

SPAN 403
Advanced Spanish Syntax 3 OR 4 hrs.
Structure of the grammatical system of Spanish. In-depth analysis of selected syntactic phenomena. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 402 or the equivalent or consent of the instructor.

SPAN 404
Spanish Phonology and Morphology 3 OR 4 hrs.
Analysis of the phonological and morphological structure of Spanish. Emphasis on the production and mental representation of sounds. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 205 or the equivalent.

SPAN 405
Advanced Spanish Phonology and Morphology 3 OR 4 hrs.
Advanced and detailed study of the phonological and morphological structure of Spanish. Emphasis on current theories. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 404 or the equivalent or consent of the instructor.

SPAN 406
Spanish Sociolinguistics 3 OR 4 hrs.
Past and current theoretical and empirical sociolinguistics as applied to the study of variation within Spanish and U.S. Hispanic communities. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 402 or SPAN 404 or consent of the instructor.

SPAN 408
Hispanic Dialectology 3 OR 4 hrs.
Descriptive and historical analysis of the most salient linguistic phenomena of peninsular and American Spanish dialects. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 300 or SPAN 404 or the equivalent.

SPAN 409
Semantics/Pragmatics in Spanish 3 OR 4 hrs.
Introduction to the study of meaning in language with a focus on Spanish. Includes formal/compositional semantics and an introduction to pragmatics. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 305; or consent of the instructor.

SPAN 410
Spanish Medieval Literature 3 OR 4 hrs.
Literary, social, and cultural developments in Medieval Spain, as reflected in *Cantar de mio Cid*, *Libro de buen amor*, *El conde Lucanor* and *La Celestina*. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 310.

SPAN 412
Literary Forms in the Early Spanish Golden Age 3 OR 4 hrs.
Renaissance and sixteenth-century lyric poetry: examples of picaresque, pastoral, and mystical prose. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 310.

SPAN 413
Literary Forms in the Later Spanish Golden Age 3 OR 4 hrs.
The comedia; culteranismo and conceptismo; the prose of Quevedo and Gracian. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 310.

SPAN 414
Don Quijote 3 OR 4 hrs.
Detailed study of the text; novelistic techniques and influence on the development of the novel. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 310.

SPAN 421
Modern Spanish Literature II: From Unamuno to Garcia Lorca 3 OR 4 hrs.
Representative authors and tendencies from the end of the nineteenth century to the outbreak of the Civil War. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 311.

SPAN 422
Contemporary Spanish Literature: From Cela to the Present 3 OR 4 hrs.
The most important authors and tendencies in twentieth-century Spain. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 311.

SPAN 427
Studies in Language Policy and Cultural Identity 3 OR 4 hrs.
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 hours. 4 graduate hours. Taught in English. **Prerequisite(s):** Junior standing or above. Reading and writing knowledge of Spanish.

SPAN 430

Spanish American Literature of the Colonial Period 3 OR 4 hrs.
Conquest to Independence. From the narrative of Discovery, Conquest and indigenous traditions, to Renaissance epic, Baroque poetry, and the literature of the Enlightenment. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 312.

SPAN 431

Modern Spanish American Literature I 3 OR 4 hrs.
Nineteenth-century literary trends from the beginnings of the novel through romanticism and realism to modernismo. Prose and poetry. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 312.

SPAN 432

Modern Spanish American Literature II 3 OR 4 hrs.
Representative authors and movements from post-modernismo through vanguardism and the tendencies of the last twenty years. Emphasis on poetry. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 312.

SPAN 433

Modern Spanish American Narrative 3 OR 4 hrs.
The development of fiction in Spanish America from the Romantic era to the neorealist novel and short-story of the 1930s. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 312.

SPAN 434

Contemporary Spanish American Narrative 3 OR 4 hrs.
Emergence of the new fiction. Representative works of the 1940s from South and Central America, Mexico, and the Caribbean, through contemporary developments of the "Boom." 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 312.

SPAN 435

Advanced Topics in Hispanic Literature 3 OR 4 hrs.
Intensive study of a particular genre, theme, author, or period within Spanish, Latin American, or Latino literature with emphasis on literary analysis and critical writing. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPAN 210 and SPAN 211; and consent of the instructor.

SPAN 436

Special Topics in the Teaching of Spanish 1 TO 4 hrs.
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

Foundations of Second Language Teaching 3 OR 4 hrs.
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 hours. 4 graduate hours. 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

Teaching Second Language Literacy and Cultural Awareness 3 OR 4 hrs.
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 hours. 4 graduate hours. Taught in English. **Prerequisite(s):** Junior standing or above; and consent of the instructor.

SPAN 451

Educational Practice with Seminar I 6 hrs.
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

Educational Practice with Seminar II 6 hrs.
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

Computer-Assisted Language Learning 3 OR 4 hrs.
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 hours. 4 graduate hours. **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

Special Topics 3 OR 4 hrs.
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 hours. 4 graduate hours. 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**

Survey of Characteristics of Learners with Disabilities 3 hrs.
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

Characteristics of Exceptional Learners 3 hrs.
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

Methods of Instruction for Exceptional Learners 2 hrs.
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

Assessment of Monolingual and LEP Children with Disabilities 4 hrs.
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

Assessment of Students with Special Needs 3 OR 4 hrs.
Theoretical basis and practical application of standardized and alternative testing of children with learning and behavior difficulties. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPED 410

SPED 426

Curricular/Behavioral Considerations for Learners with Special Needs 3 OR 4 hrs.
Instructional practices related to academics, classroom management, individualized and group instruction for students with special needs. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** SPED 424 or the equivalent or consent of the instructor.

SPED 427
Curricular and Behavioral Considerations for LEP Learners with Special Needs 4 hrs.

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
Language Development and Disorders 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** SPED 410

SPED 444
Assistive Technology for Literacy, Learning, and Participation in Pre-K through High School 3 hrs.

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
Topics in Special Education 1 TO 4 hrs.

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 461
Political and Sociocultural Perspectives on Special Education 3 hrs.

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
Assessment of Individuals with Disabilities 3 hrs.

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
Instructional Adaptations in Reading and Writing I 3 hrs.

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
Cognitive Development and Disabilities 3 hrs.

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
Language Development, Diversity, and Disabilities 3 hrs.

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
Social and Emotional Development and Disabilities 3 hrs.

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
Curricular Adaptations for Learners with Significant Disabilities 3 hrs.

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
Promoting Academic and Prosocial Behavior I 3 hrs.

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
Teaching Math and Science with Adaptations 3 hrs.

Provides prospective teachers with assessment strategies and a range of adaptations, modifications, 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
Technology and Multimedia: Learning Tools in the Classroom 3 OR 4 hrs.

New technologies to support teaching and learning in pre-college classrooms. **Same as** CIE 480. 3 undergraduate hours. 4 graduate hours.

SPED 481
Theoretical Foundations of Bilingual/ESL Special Education 4 hrs.

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**
Introduction to Statistics 4 hrs.

Applications of statistics in the real world, displaying and describing data, normal curve, regression, surveys and experiments, probability, statistical inference about means and proportions, confidence intervals, and hypothesis tests. Extensive computer use required. **Prerequisite(s):** Satisfactory grade in MATH 090, or appropriate score on the department placement test, or consent of the instructor.

STAT 381
Applied Statistical Methods I 3 hrs.

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
Introduction to Probability 3 OR 4 hrs.

Probability spaces, random variables and their distributions, conditional distribution and stochastic independence, special distributions, sampling distributions, limit theorems. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 210.

STAT 411
Statistical Theory 3 OR 4 hrs.

Estimation, tests of statistical hypotheses, best tests, sufficient statistics, Rao-Cramer inequality, sequential probability ratio tests, the multivariate normal distribution, nonparametric methods. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 401.

STAT 416
Nonparametric Statistical Methods 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 381 or STAT 411.

STAT 431
Introduction to Survey Sampling 3 OR 4 hrs.

Simple random sampling; sampling proportions; estimation of sample size; stratified random sampling; ratio estimators; regression estimators; systematic and cluster sampling. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 411 or STAT 481.

STAT 461
Applied Probability Models I 3 OR 4 hrs.

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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 401.

STAT 462

Applied Probability Models II 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 461.

STAT 471

Linear and Nonlinear Programming 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 310.

STAT 473

Game Theory 3 OR 4 hrs.
Games in extensive and normal form. Minimax theorem. Solving matrix games via linear programming. Nash equilibria for nonzero-sum games. Shapley value, bargaining models. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in MATH 310 or STAT 401.

STAT 477

Introduction to Reliability Theory 3 OR 4 hrs.
Structural and probabilistic properties of coherent systems, notions of aging and classes of life distributions, preservation properties, dependent components, optimal allocation models. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 401 or consent of the instructor.

STAT 481

Applied Statistical Methods II 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 381.

STAT 486

Statistical Consulting 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Grade of C or better in STAT 411 or STAT 481.

STAT 494

Special Topics in Statistics, Probability, and Operations Research 3 OR 4 hrs.
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 hours. 4 graduate hours. May be repeated. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department.

STAT 496

Independent Study 1 TO 4 hrs.
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 Introduction to Theatre 3 hrs.

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

Polish Drama in Translation 3 hrs.
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

Technical Theatre 3 hrs.
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

Fundamentals in Costume Construction 3 hrs.
Fundamentals of costume construction from conception to realization, through the use of sewing machines, pattern making, and historical research with practical projects.

THTR 161

Fundamentals of Acting 3 hrs.
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

Modern Theatre 3 hrs.
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

Movement for Stage I 3 hrs.
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

East Asian Theatre 3 hrs.
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 South East Asia.
• *Creative Arts course.*

THTR 250

Principles of Design 3 hrs.
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

Scene Design 3 hrs.
Basic interpretive and practical techniques in creating 3-dimensional performance environments, including conceptualization, drafting, rendering, and model building. **Prerequisite(s):** Grade of B or better in THTR 150.

THTR 256

Lighting Design 3 hrs.
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

Costume Design I 3 hrs.
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

Costume Design II 3 hrs.
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

Makeup Design 3 hrs.
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

The Actor's Voice 3 hrs.
Fundamentals of vocal production, their physical and emotional characteristics, and their relationship to body, space, action, and emotion. **Prerequisite(s):** Grade of B or better in THTR 161.

THTR 261

Advanced Voice for the Actor 3 hrs.
The relationship between speech, sound, and dramatic sense. Advanced techniques for the development of voice in conjunction with dramatic texts. **Prerequisite(s):** Grade of B or better in THTR 260.

THTR 262

Acting II: Contemporary 3 hrs.
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 161.

THTR 280

Practicum in Performance 3 hrs.
Rehearsal and performance techniques, including script analysis, characterization, voice, movement, directing, or design. May be repeated to a maximum of 18 hours. Students may register in more than one section per term. **Prerequisite(s):** Approval of the department and completion of a successful audition.

THTR 281
Practicum in Theatre
Administration 1 TO 6 hrs.
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 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

THTR 282
Practicum in Costuming 1 TO 6 hrs.
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 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

THTR 283
Practicum in Technical Theatre 1 TO 6 hrs.
Practical experience in various technical areas: scenery construction, set painting, stage lighting, sound, and properties construction. May be repeated to a maximum of 15 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

THTR 284
Seminar on Play in Production 3 hrs.
Research and development for play production using the current University production as an example. Special topics. May be repeated to a maximum of 6 hours. **Prerequisite(s):** Consent of the instructor.

THTR 299
Individual Topics 1 TO 3 hrs.
Individual investigation of special problems. May be repeated to a maximum of 6 hours. 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
Movement for Stage II 3 hrs.
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 362
Acting: Ensemble Project 3 hrs.
Process and scoring of character development in a full-length, twentieth-century play. May be repeated to a maximum of 6 hours. **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; and sophomore standing or above.

THTR 410
Movement for Stage III 3 OR 4 hrs.
Specialized topics in movement-based performance skills, such as stage combat, circus techniques, and mask work. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in THTR 310 and advanced physical performance experience; or graduate standing in theatre.

THTR 423
Playwriting 3 OR 4 hrs.
The development of scripts for stage performance. **Same as ENGL 495.** 3 undergraduate hours. 4 graduate hours. **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
Drama in Its Cultural Context I 3 OR 4 hrs.
Drama in its social and cultural context through the seventeenth century. 3 undergraduate hours. 4 graduate hours.

THTR 445
Drama in Its Cultural Context II 3 OR 4 hrs.
Drama in its social and cultural context, eighteenth to twentieth centuries. 3 undergraduate hours. 4 graduate hours.

THTR 452
Acting: Greeks and Shakespeare 3 OR 4 hrs.
Techniques of performing Greek and Shakespearean drama. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in THTR 261 and grade of B or better in THTR 262 or graduate standing in theatre.

THTR 455
Acting: Comedy 3 OR 4 hrs.
Techniques of performing classic comedy. Emphasis on the "Commedia dell'arte" and improvisational comedy. Topics vary. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in THTR 262 or graduate standing in theatre.

THTR 458
Acting: Ibsen and Chekhov 3 OR 4 hrs.
Techniques of performing Ibsen, Chekhov, and their contemporaries. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in THTR 262 or graduate standing in theatre.

THTR 462
Voice for Stage 3 OR 4 hrs.
Advanced techniques in the integration of voice, speech, dialects, and other text-related vocal performance skills. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in THTR 261 or graduate standing in theatre.

THTR 464
Special Projects in Theatrical Design 3 OR 4 hrs.
Twentieth-century styles: design for the contemporary stage. Problems in conceptualization, realization, and execution. 3 undergraduate hours. 4 graduate hours. 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
Stage Direction 3 OR 4 hrs.
Exploration of conceptual planning and implementation skills for the stage director, ranging from script interpretation to rehearsal and performance. Performance projects required. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** THTR 210 and THTR 250 and THTR 262; and THTR 256 or THTR 257 or graduate standing in theatre.

THTR 466
Special Projects in Performance Training 3 OR 4 hrs.
Training in varying advanced techniques of performance. 3 undergraduate hours. 4 graduate hours. May be repeated up to 2 time(s). **Prerequisite(s):** THTR 262; or for graduate students, consent of the instructor.

THTR 470
Contemporary Performance Techniques 3 OR 4 hrs.
The relationship of contemporary theory and performance techniques with attention to both text and nontext based forms. Topics vary. Performance projects required. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s). **Prerequisite(s):** Grade of B or better in THTR 262; or graduate standing in theatre.

THTR 472
Investigative Collaboration 3 OR 4 hrs.
Collaboration as the primary means for theatrical creation. Production teams assigned to joint-production projects. Topics vary. 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s). **Prerequisite(s):** Grade of B or better in THTR 262; or graduate standing in theatre.

THTR 474
Internship 3 TO 8 hrs.
Students work in an approved professional setting. Individual projects developed through conferences with a faculty member and a field supervisor. May be repeated. Only three hours may be applied toward theatre major requirements. **Prerequisite(s):** 12 hours of upper-division courses in theatre, with a 3.00 grade point average in those courses; recommendation of two faculty members and approval of department obtained in semester prior to internship.

THTR 475
Audition Technique 3 OR 4 hrs.
Selection and staging of audition pieces from both classical and modern drama. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Grade of B or better in THTR 261 and grade of B or better in THTR 452 and grade of B or better in THTR 210; or graduate standing.

THTR 491
Study Abroad in Theatre 0 TO 16 hrs.
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
Independent Study 1 TO 4 hrs.
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 hours. 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 Introduction to Urban Policy Processes 3 hrs.

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. **Same as** PA 300. **Prerequisite(s):** College-level microeconomics and admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 301
Political Economy
of Urban
Development 3 hrs.**
Political and economic approaches to the study of urban life, urban problems, and the built environment. **Same as** UPP 301. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 303
Urban
Government I:
Managing the
Internal
Environment 3 hrs.**
Personnel management, organizing, budgeting, finance, leadership, motivation, economic development, accountability, ethics, legal and constitutional foundations. **Same as** PA 303. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 304
Visualizing the
City: Methods
and Tools for
Representing the
City 3 hrs.**
Addresses basics of visualization methods and techniques of representing the physical environment. **Same as** UPP 304. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 305
Urban
Government II:
Managing the
External
Environment 3 hrs.**
Intergovernmental finance, inter-jurisdictional competition, intergovernmental cooperation, intergovernmental cooperative agreements, and contractual and informal relations with non-profit organizations and governmental actors. **Same as** PA 305. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 306
Urban Policy
Analysis Methods 3 hrs.**
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. **Same as** UPP 306. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 307
E-Government in
Urban and Public
Affairs 3 hrs.**
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. **Same as** PA 307. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 308
Globalization in
Urban and Public
Affairs 3 hrs.**
Study of urban and public affairs as they relate to globalization. **Same as** UPP 308. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 492
Topics in Urban
and Public Affairs 3 hrs.**
In depth study of selected issues of urban and public affairs. **Same as** UPP 492. May be repeated to a maximum of 6 hours. Students may register for more than one section per term. **Prerequisite(s):** Admission to the BA Program in Urban and Public Affairs or consent of the instructor.

**UPA 493
Topics in Urban
and Public
Affairs and
Administration 3 hrs.**
In-depth study of selected issues on urban and public affairs. **Same as** PA 493. May be repeated to a maximum of 6 hours. 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
Senior Capstone I:
UPP/UPA 3 hrs.**
A selection of a capstone topic and introductory research on the topic. **Same as** UPP 494. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 495
Senior Capstone
Experience in
Urban and Public
Affairs II 3 hrs.**
Students synthesize and draw upon knowledge learned in the program to engage in projects in the urban community. This course is an extension of UPA/UPP 494. **Same as** UPP 495. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 496
Senior Capstone
Experience in
Urban and Public
Affairs I: Public
Administration 3 hrs.**
Selection of capstone topic and introductory research on that topic. **Same as** PA 496. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 497
Senior Capstone
Experience in
Urban and Public
Affairs II: Public
Administration 3 hrs.**
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/PA 496. **Same as** PA 497. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 498
Independent
Study in Urban
Planning and
Public Affairs 1 TO 3 hrs.**
Provides an opportunity for students to pursue an independent project that is not available through the required UPA course work. **Same as** UPP 498. May be repeated for a maximum of 6 hours. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPA 499
Independent
Study in Urban
Planning and
Public Affairs and
Administration 1 TO 3 hrs.**
Provides an opportunity for students to pursue an independent project that is not available through the required UPA course work. **Same as** PA 499. May be repeated for a maximum of 6 hours. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

Urban Planning and Policy

**UPP 101
Introduction to
Urban Studies 3 hrs.**
General survey of urban issues and experience using an interdisciplinary approach. • *US Society course.*

**UPP 199
Independent
Study in Urban
and Public Affairs 1 TO 3 hrs.**
Study and analysis of topics selected by the student under the guidance of a faculty adviser. May be repeated to a maximum of 6 hours. Students may register in more than one section per term. **Prerequisite(s):** Consent of the instructor.

**UPP 202
Planning Great
Cities 3 hrs.**
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. • *US Society course.*

**UPP 301
Political Economy
of Urban
Development 3 hrs.**
Political and economic approaches to the study of urban life, urban problems, and the built environment. **Same as** UPA 301. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

**UPP 302
Great Cities
Internship 6 hrs.**
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 304
Visualizing the
City: Methods
and Tools for
Representing the
City 3 hrs.**
Addresses basics of visualization methods and techniques of representing the physical environment. **Same as** UPA 304. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

UPP 306
Urban Policy Analysis Methods 3 hrs.
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. **Same as** UPA 306. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

UPP 308
Globalization in Urban and Public Affairs 3 hrs.
Study of urban and public affairs as they relate to globalization. **Same as** UPA 308. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

UPP 403
Introduction to Urban Planning 3 OR 4 hrs.
Patterns of city growth, physical, socioeconomic, and environmental issues. Contemporary planning issues. Future of cities. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Advanced undergraduate standing or consent of the instructor.

UPP 420
Great Cities: London and Chicago 1 TO 8 hrs.
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 470
Cohort Seminar for Urban Developers 3 OR 4 hrs.
Application of the financial calculator, use of spreadsheets, and other tools commonly used in real-estate-based urban development projects. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

UPP 471
Housing and Community Development for Urban Developers 3 OR 4 hrs.
Housing policy at federal, state, and local levels affecting urban housing markets. Emphasis on assessment of market conditions affecting community development decisions. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** UPP 470 or consent of the instructor.

UPP 472
Development Finance For Urban Developers 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

UPP 473
Organizational Essentials for Urban Developers 3 OR 4 hrs.
Theory and practice of management in public and non-profit settings. Focus on developing communication, leadership, and legal skills for each step in development. 3 undergraduate hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

UPP 474
Community Development Process for Urban Developers 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

UPP 475
Sustaining the Housing for Urban Developers 3 OR 4 hrs.
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 hours. 4 graduate hours. **Prerequisite(s):** Consent of the instructor.

UPP 492
Topics in Urban and Public Affairs 3 hrs.
In-depth study of selected issues of urban and public affairs. **Same as** UPA 492. May be repeated to a maximum of 6 hours. Students may register for more than one section per term. **Prerequisite(s):** Admission to the BA Program in Urban and Public Affairs or consent of the instructor.

UPP 494
Senior Capstone Experience in Urban and Public Affairs I 3 hrs.
A selection of a capstone topic and introductory research on the topic. **Same as** UPA 494. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

UPP 495
Senior Capstone Experience in Urban and Public Affairs II 3 hrs.
Students synthesize and draw upon knowledge learned in the program to engage in projects in the urban community. This course is an extension of UPA/UPP 494. **Same as** UPA 495. **Prerequisite(s):** Senior standing or above; admission to the BA in Urban and Public Affairs Program or consent of the instructor.

UPP 498
Independent Study in Urban Planning and Public Affairs 1 TO 3 hrs.
Provides an opportunity for students to pursue an independent project that is not available through the required UPA course work. **Same as** UPA 498. May be repeated for a maximum of 6 hours. **Prerequisite(s):** Admission to the BA in Urban and Public Affairs Program or consent of the instructor.

Women's Health Nursing

NUWH 450
Women and Mental Health Nursing 3 hrs.
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
Women's Health: A Primary Healthcare Approach 3 hrs.
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.

Faculty List

The University Library

Kristina Appelt
MSIS, University of Texas at Austin

Annie Armstrong
MLS, University of Wisconsin–Madison

Felicia Barrett
MLS, Indiana University

Marjorie C. Bengtson
MS, University of Illinois at Urbana-Champaign

Sara Blaszcak
MLIS, University of Illinois at Urbana-Champaign

Deborah Blecic
MS, University of Illinois at Urbana-Champaign

John Stephen Brantley
MLS, Indiana University, Bloomington
MA, Indiana University, Bloomington

Mary Case
AMLS, University of Michigan
MA, Syracuse University

John M. Cullars
MLS, PhD, Indiana University

Robert A. Daugherty
MS, University of Illinois at Urbana-Champaign

Li Fu
MLIS, Dominican University
MA, Dalian University, Dalian, China

Sandra De Groote
MLS, University of Western Ontario

Josephine L. Dorsch
MALS, Rosary College

Joan B. Fiscella
AMLS, University of Michigan
MA, PhD, University of Notre Dame

Helen Georgas
MLS, University of Toronto

Emily Guss
MLS, University of Michigan

Valerie Harris
MLIS, University of Illinois at Urbana-Champaign

Lynn C. Hattendorf Westney
MS, University of Illinois at Urbana-Champaign

Julia Hendry
MLIS, University of Western Ontario

Peter Hepburn
MLIS, McGill University

Julie M. Hurd
MS, Michigan State University
MA, PhD, University of Chicago (Emeritus)

Nancy R. John
MLS, University of California, Los Angeles (Emeritus)

William G. Jones
AMLS, University of Michigan (Emeritus)

Gretchen A. Lagana
MLS, University of Wisconsin–Madison
MA, San Jose State College (Emeritus)

Jay Lambrecht
MS, University of Illinois at Urbana-Champaign

Krystal Lewis
MLIS, University of Illinois at Urbana-Champaign

Firouzeh Logan
MLIS, Dominican University
MA, DePaul University

Chieko Maene
MLIS, University of Wisconsin–Milwaukee

H. Robert Malinowsky
MLS, University of Denver (Emeritus)

Kavita Mundle
MLS, Dominican University

Kevin O'Brien
MLS, Indiana University

Cleo Pappas
MLIS, Dominican University

Victoria Pifalo
MLS, State University of New York at Albany

Ellen Schellhause
MLIS, University of Kentucky

Carol Scherrer
MALS, Rosary College

Helen F. Schmierer
MA, Indiana University, Bloomington

Joan Schuitema
MLIS, University of Illinois at Urbana-Champaign

Louis Schultheiss
MA, University of Denver (Emeritus)

Marsha Selmer
MS, Western Michigan University (Emeritus)

John Shuler
MLS, University of California, Los Angeles

Mary Shultz
MLIS, University of Illinois at Urbana-Champaign

Mircea Stefancu
MLIS, University of Illinois at Urbana-Champaign
MS, University of Bucharest

Ann C. Weller
MA, University of Chicago

Stephen E. Wiberley, Jr.
MLS, State University of New York at Albany
PhD, Yale University

Lisa Zhao
MLIS, University of Illinois at Urbana-Champaign
MA, University of Illinois at Chicago

College of Applied Health Sciences

Department of Biomedical and Health Information Sciences

Zhuming Ai
PhD, Nanjing Institute of Technology

Scott Barrows
BS, CMI, FAMI, University of Illinois at Chicago

Greg Blew
MAMS, University of Illinois at Chicago

John Daugherty
MS, CMI, University of Michigan

Michael Dieter
MBA, University of Illinois at Chicago
MLIS, Dominican University

Raymond Evenhouse
BA, University of Illinois at Chicago

Beverly J. Fiorella
MA, MT (ASCP) SBB, CLS/NCA, Central Michigan University (Emeritus)

Lois Hitchcock
MHA, RHIA, CPHQ, University of LaVerne

Donna Hughes
MA, Kunstgewerbeschule (Switzerland)

Susan Habakuk
MEd, CMI, University of Illinois at Chicago

Therese K. Jorwic
BS, RHIA, CCS, CCS-P, University of Illinois at Chicago

Veronica Lewis
MS, MT (ASCP) SBB, University of Illinois at Chicago

Karen Patena
MBA, RHIA, DePaul University

Lawrence Pawola
PharmD, MBA, University of Illinois at Chicago

Mary Rasmussen
MFA, University of Illinois at Chicago

Rachelle S. Stewart
PhD, RHIA, University of Illinois at Chicago

Annette L. Valenta
DrPH, University of Illinois at Chicago
Rosemary Walker
DDS, MBA, MS, University of Illinois at Chicago
June Wencel-Drake
PhD, University of Illinois at Chicago

Department of Human Nutrition

Phyllis E. Bowen
PhD, Cornell University
Carol Braunschweig
PhD, University of Michigan
Alan Diamond
PhD, State University of New York at Stony Brook
Giamila Fantuzzi
PhD, Università degli Studi di Milano, Milano, Italy
Robert Reynolds
PhD, University of Wisconsin–Madison

Department of Movement Sciences

Mary Lou Bareither
PhD, University of Illinois at Chicago
Daniel M. Corcos
PhD, University of Oregon
Mark D. Grabiner
PhD, University of Illinois at Urbana-Champaign
Ziaul Hasan
PhD, Massachusetts Institute of Technology
James Horgan
PhD, University of Iowa
Timothy Koh
PhD, University of Calgary
Jane Marone
MD, University of Missouri–Columbia
David Marquez
PhD, University of Illinois at Urbana-Champaign
Thayne Munce
PhD, Pennsylvania State University
Julia Rahn
PhD, Illinois Institute of Technology
Kathleen Schroeder
MS, University of Illinois at Urbana-Champaign
Charlotte A. Tate
PhD, University of Texas at Austin
Karen L. Troy
PhD, University of Iowa
David Vaillancourt
PhD, Pennsylvania State University
Charles B. Walter
PhD, University of California, Los Angeles

College of Architecture and the Arts

School of Architecture

Rene Amon
PhD, Northwestern University (Emeritus)
Bruno Ast
MArch, University of Illinois at Urbana-Champaign
David P. Brown
MArch, University of California, Berkeley
Stuart E. Cohen
MArch, Cornell University (Emeritus)
Edward L. Deam
MArch, University of Pennsylvania (Emeritus)
Penelope Dean
PhD, (ABD), University of California, Los Angeles
Elliott Dudnik
PhD, Northwestern University (Emeritus)
Sarah Dunn
MArch, Columbia University
Roberta M. Feldman
PhD, City University of New York
Douglas A. Garofalo
MArch, Yale University

Michael S. Gelick
MArch, Massachusetts Institute of Technology
Robert W. Gerstner
PhD, Northwestern University (Emeritus)
Ezra Gordon
BArch, University of Illinois at Urbana-Champaign (Emeritus)
Ellen Grimes
MArch, University of Illinois at Chicago
Sharon H. Haar
MArch, Princeton University
George A. Hinds
MCP, Yale University (Emeritus)
Kenneth D. Isaacs
MFA, Cranbrook Academy of Art (Emeritus)
R. Thomas Jaeger
MArch, Massachusetts Institute of Technology (Emeritus)
Clare Lyster
MArch, Yale University
John Macsai
BArch, Miami University (Ohio) (Emeritus)
George J. Megarefs
PhD, Illinois Institute of Technology (Emeritus)
Annie Pedret
PhD, Massachusetts Institute of Technology
Louis Rocah
MSC, Illinois Institute of Technology
Christopher Rockey
MArch, University of Illinois at Urbana-Champaign
Elva Rubio
MArch, Washington University
Kenneth A. Schroeder
MArch, University of Toronto (Emeritus)
Xavier Vendrell
Titulo DeArquitecto, Escuela Tecnica Superior de Arquitecta de Barcelona
Daniel Wheeler
BArch, Rhode Island School of Design
Richard R. Whitaker
BArch, University of California, Berkeley (Emeritus)
William Worn
MArch, University of Illinois at Urbana-Champaign

School of Art and Design

Morris Barazani
Institute of Design, Cranbrook Academy of Art (Emeritus)
Leon Bellin
MA, New York University (Emeritus)
Joerg Becker
MFA, Post St Joost Academy
Wayne A. Boyer
MS, Illinois Institute of Technology (Emeritus)
Linda Bracamontes-Roeger
BFA, University of Illinois at Chicago
Certificate, Allgemeine Gewerbeschule (Switzerland)
Phyllis Bramson
MFA, School of the Art Institute of Chicago
Drew R. Browning
MFA, School of the Art Institute of Chicago
Philip Burton
BFA, Philadelphia College of Art
Certificate, Allgemeine Gewerbeschule (Switzerland)
Rodney Carswell
MFA, University of Colorado
Julia Fish
MFA, The Maryland Institute
Matthew Gaynor
MFA, Yale University
Olivia Gude
MFA, University of Chicago

Klindt B. Houlberg
MA, Pennsylvania State University (Emeritus)

Martin R. Hurtig
MS, Illinois Institute of Technology (Emeritus)

Douglas Ischar
MFA, California Institute of the Arts

Joseph Jachna
MS, Illinois Institute of Technology (Emeritus)

Judith Russi Kirshner
MA, Bryn Mawr

Marcia Lausen
MFA, Yale University

Silvia Malagrino
MFA, University of Illinois at Chicago

John Massey
BFA, University of Illinois at Urbana-Champaign (Emeritus)

Alfred P. Maurice
MA, Michigan State College (Emeritus)

Stephen Melamed
MFA, Boston University

Gary L. Minnix
MFA, Temple University

Jennifer Montgomery
MFA, Bard College

Stephanie Munson Tharp
MID, Rhode Island School of Design

Sharon Oiga
MFA, Yale University

Esther Parada
MFA, Pratt Institute Art School
MS, Illinois Institute of Technology (Emerita)

Dan Peterman
MFA, University of Chicago

Jessica Poser
MFA, University of Illinois at Chicago
EdD, Harvard University

Jennifer Reeder
MFA, School of the Art Institute of Chicago

Daniel J. Sandin
MS, University of Wisconsin–Madison (Emeritus)

Hans Schaal
MS, Institute of Design, Illinois Institute of Technology (Emeritus)

Susan Sensemann
MFA, Temple University (Emeritus)

Deborah Stratman
MFA, California Institute of Art

Anthony Tasset
MFA, School of the Art Institute of Chicago

Daria Tsoupikova
MFA, Syracuse University

Harriet S. Wadeson
PhD, Union Graduate School (Emerita)

Department of Art History

Ellen T. Baird
PhD, University of New Mexico

Catherine Becker
PhD, University of California, Berkeley

Robert Brueggemann
PhD, University of Pennsylvania

Nina Dubin
PhD, University of California, Berkeley

Ross Edman
MA, Oberlin College (Emeritus)

Donald L. Ehresmann
PhD, New York University (Emeritus)

Heather E. Grossman
PhD, University of Pennsylvania

Peter B. Hales
PhD, University of Texas at Austin

Hannah B. Higgins
PhD, University of Chicago

Clark Hulse
PhD, Claremont Graduate School

Judith Russi Kirshner
MA, Bryn Mawr College

Victor Margolin
PhD, Union Graduate School (Emeritus)

Virginia E. Miller
PhD, University of Texas at Austin

Robert Munman
PhD, Harvard University

Martha Pollak
PhD, Massachusetts Institute of Technology

Sidney Robinson
ArchD, University of Michigan

David M. Sokol
PhD, New York University (Emeritus)

Jennifer Tobin
PhD, University of Pennsylvania

Department of Performing Arts

Michael J. Anderson
DMA, University of Colorado

Jane Bagnall
MFA, Ohio University at Athens

Christine Bohlman
DMA, University of Illinois at Urbana-Champaign

Andrew Carpenter
MM, Northwestern University

Gene Collerd
MM, Yale University

Orbert Davis
MFA, Northwestern University at Evanston

Theodore Edel
DMA, Manhattan School of Music (Emeritus)

Sharon Goepfert
MFA, The Theatre School at DePaul University

Caroline Guindon
PhD, Université de Montréal at Montréal Canada

Anthony Graham-White
PhD, Stanford University

R. Victor Harnack
PhD, Northwestern University (Emeritus)

William Kaplan
DMA, University of Michigan

Katharine T. Loesch
PhD, Northwestern University (Emerita)

Tanera Marshall
MFA, The Theatre School at DePaul University

Neal McCollam
MFA, University of Illinois at Chicago

James Paulus
BA, University of Illinois at Chicago

William Raffeld
MTA, Pasadena Playhouse College of Theatre Arts

Lou Salerni
MFA, University of Oregon

Harris Saunders
PhD, Harvard University

Natalie Schmitt
PhD, Stanford University (Emerita)

Carl Ulaszek
MA, University of Illinois at Chicago

Richard Wang
PhD, University of Chicago (Emeritus)

Brian Weddington
MFA, Rutgers University

College of Business Administration

Department of Accounting

Peter Chalos
PhD, University of Illinois at Urbana-Champaign

James L. Chan
PhD, University of Illinois at Urbana-Champaign

Joyce T. Chen
PhD, University of Illinois at Urbana-Champaign
(Emerita)
Somnath Das
PhD, Carnegie Mellon University
Abel Galvan
MBA, University of Illinois at Chicago
James Hansen
PhD, University of Georgia
Keejae Hong
PhD, University of Illinois at Urbana-Champaign
Kyeonghee Kim
PhD, University of Pittsburgh
Brian Leventhal
MBA, Northern Illinois University
Thomas C. Omer
PhD, University of Iowa
Ronald D. Picur
PhD, Northwestern University (Emeritus)
Michael Popowits
MAS, University of Illinois at Urbana-Champaign
Ram T. S. Ramakrishnan
PhD, Northwestern University
Ahmed Riahi-Belkaoui
PhD, Syracuse University (Emeritus)
Helen Roe
JD, DePaul University Law School
Yehia Salama
PhD, University of Alabama
Leonard C. Soffer
PhD, University of California, Berkeley
Margaret (Peggy) Weber
PhD, University of Texas at Austin

Department of Economics

Alicia Adsera
PhD, Boston University
Ali T. Akarca
MS, University of Wisconsin–Madison
Nathan B. Anderson
PhD, University of Michigan
Eliezer Ben-Zvi Ayal
PhD, Cornell University (Emeritus)
Frank J. Chaloupka IV
PhD, City University of New York
Barry R. Chiswick
PhD, Columbia University
Carmel U. Chiswick
PhD, Columbia University
William D. Grampp
PhD, University of Chicago (Emeritus)
Robert Kaestner
PhD, City University of New York
Georgios Karras
PhD, Ohio State University
Richard F. Kosobud
PhD, University of Pennsylvania (Emeritus)
Jin-Man Lee
PhD, University of Illinois at Chicago
Evelyn L. Lehr
PhD, Northwestern University
Joshua Linn
PhD, Massachusetts Institute of Technology
Deirdre N. McCloskey
PhD, Harvard University
John F. McDonald
PhD, Yale University (Emeritus)
Daniel P. McMillen
PhD, Northwestern University
Oscar Miller
AM, University of Chicago (Emeritus)
Lawrence H. Officer
PhD, Harvard University

Richard M. Peck
PhD, Princeton University
Joseph J. Persky
PhD, Harvard University
Paul J. Pieper
PhD, Northwestern University
Helen Roberts
PhD, University of Chicago
George Rosen
PhD, Princeton University (Emeritus)
Thomas More Smith
PhD, University of Illinois at Chicago
William G. Stanford
PhD, Northwestern University
Houston H. Stokes
PhD, University of Chicago
Mo-Yin S. Tam
PhD, State University of New York at Stony Brook
John Tauras
PhD, University of Illinois at Chicago

Department of Finance

Sankar Acharya
PhD, Northwestern University
Gilbert W. Bassett, Jr.
PhD, University of Michigan
John Binder
PhD, University of Chicago
Oleg P. Bondarenko
PhD, California Institute of Technology
Thomas Bothen
MBA, University of Chicago
Mary Brown
MBA, John Carroll University
Hsiu-Lang Chen
PhD, University of Illinois at Urbana-Champaign
Re-Jin Guo
PhD, University of Minnesota
Xiaoqing Hu
PhD, Northwestern University
John F. McDonald
PhD, Yale University (Emeritus)
Stanley R. Pliska
PhD, Stanford University
Jaeyoung Sung
PhD, Washington University
Hefei (Faye) Wang
PhD, Stanford University
Lan Zhang
PhD, University of Chicago

Department of Information and Decision Sciences

Robert Abrams
PhD, Northwestern University (Emeritus)
Yair Babad
PhD, Cornell University
Darold Barnum
PhD, University of Pennsylvania
Siddhartha Bhattacharyya
PhD, University of Florida
Ranganathan Chandrasekaran
PhD, Indian Institute of Management, India
Rong Chen
PhD, Carnegie Mellon University
Wenxuan (Amy) Ding
PhD, Carnegie Mellon University
Jane N. Hagstrom
PhD, University of California, Berkeley (Emerita)
James K. Ho
PhD, Stanford University
Ronald Jablonski
DBA, Harvard University (Emeritus)

Yew Sing (Thomas) Lee
PhD, Yale University

Lon-Mu S. Liu
PhD, University of Wisconsin–Madison (Emeritus)

King-Tim Mak
PhD, University of California, Berkeley

Mary Beth Watson Manheim
PhD, Georgia Institute of Technology

Edward T. Minieka
PhD, Yale University (Emeritus)

M. Aris Ouksel
PhD, Northwestern University

Richard Potter
PhD, University of Arizona

Arkalgud Ramaprasad
PhD, University of Pittsburgh

Stanley L. Sclove
PhD, Columbia University

Jan Sunjaya
PhD, University of Illinois at Chicago

Milan Velebit
PhD, University of Illinois at Chicago

Walter Wadycki
PhD, Northwestern University (Emeritus)

Department of Managerial Studies

Maryann H. Albrecht
PhD, Emory University (Retired)

Darold T. Barnum
PhD, University of Pennsylvania

Hale C. Bartlett
PhD, University of Michigan (Retired)

Shelley Brickson
PhD, Harvard University

Elmer H. Burack
PhD, Northwestern University (Emeritus)

Joseph Cherian
PhD, University of Texas at Austin

Robert Cooke
PhD, Northwestern University (Emeritus)

Benet DeBerry-Spence
PhD, Northwestern University

Laurence P. Feldman
PhD, University of Minnesota (Emeritus)

Eugene Fregetto
PhD, University of Illinois at Chicago

James Gillespie
PhD, Northwestern University

Gerald E. Hills
DBA, Indiana University

Jenny M. Hoobler
PhD, University of Kentucky

S. George Huneryager
PhD, University of Illinois at Urbana-Champaign (Emeritus)

Charles King
DBA, Harvard University

David Koehler
MBA, Governors State University

William Kohler
MA, University of Illinois at Chicago

Stefanie A. Lenway
PhD, University of California, Berkeley

Robert Liden
PhD, University of Cincinnati

Sophia Marinova
PhD, University of Maryland, College Park

Abigail McWilliams
PhD, Ohio State University

William Melberg
PhD, Illinois Institute of Technology

Michael Miller
JD/MBA, Northern Illinois University

Thomas P. Murtha
PhD, New York University

Cheryl Nakata
PhD, University of Illinois at Chicago

Chem L. Narayana
PhD, University of Iowa (Emeritus)

Anthony M. Pagano
PhD, Pennsylvania State University

Albert L. Page
PhD, Northwestern University

Jose A. Rosa
PhD, University of Michigan

Mark T. Shanley
PhD, University of Pennsylvania

Rodney C. Shrader
PhD, Georgia State University

Jelena Spanjol
PhD, University of Illinois at Urbana-Champaign

Peter B. Thompson
PhD, University of Illinois at Chicago

Jie Wang
PhD, University of North Dakota

Sandy J. Wayne
PhD, Texas A&M University

Robert E. Weigand
PhD, University of Illinois at Urbana-Champaign (Emeritus)

College of Education

William C. Ayers
EdD, Columbia University Teachers College

Mary Bay
PhD, University of Illinois at Chicago

Joseph Becker
PhD, Queen Mary College, London University

Adrian S. Capehart
PhD, University of Illinois at Chicago

Victoria Chou
PhD, University of Wisconsin–Madison

Shelby Cosner
PhD, University of Wisconsin–Madison

Mavis L. Donahue
EdD, Boston University

Joy Eisen
EdD, Harvard University

James R. Gavelek
PhD, Washington State University

Kathryn Glasswell
PhD, University of Auckland

Susan R. Goldman
PhD, University of Pittsburgh

Kimberly Gomez
PhD, University of Chicago

Artin Göncü
PhD, University of Houston

Gerald Graff
PhD, Stanford University

Eric (Rico) Gutstein
PhD, University of Wisconsin–Madison

Donald Hellison
PhD, Ohio State University

Stacey Horn
PhD, University of Maryland

Wu-Ying Hsieh
PhD, University of Illinois at Urbana-Champaign

Marie Tejero Hughes
PhD, University of Miami

Marisha L. Humphries
PhD, University of Illinois at Chicago

James V. Kahn
PhD, Temple University

George Karabatsos
PhD, University of Chicago

Eleni Katsarou
PhD, University of Illinois at Chicago

Lena Licón Khisty
PhD, Washington State University

Kevin Kumashiro
PhD, University of Wisconsin–Madison

Kimberly Lawless
PhD, University of Connecticut

Theodora Ann Lightfoot
PhD, University of Wisconsin–Madison

Pauline Lipman
PhD, University of Wisconsin–Madison

Norma Lopez-Reyna
PhD, University of California, Santa Barbara

Catherine Main
MEd, University of Illinois at Chicago

Yolanda J. Majors
PhD, University of Iowa

Danny Bernard Martin
PhD, University of California, Berkeley

Peter Martinez
BS, Loyola University

David Mayrowetz
EdD, Rutgers University

Daniel Miltner
MST, University of Illinois at Chicago

Carole P. Mitchener
PhD, University of Denver

Christopher Miller
PhD, University of Wisconsin–Madison

Carol M. Myford
PhD, University of Chicago

Marlynne Nishimura
MEd, University of Illinois at Chicago

Larry P. Nucci
PhD, University of California, Santa Cruz

Irma M. Olmedo
PhD

Janice L. Ozga
PhD, University of Illinois at Chicago

Christine C. Pappas
PhD, Ohio State University

Michelle Parker-Katz
PhD, Michigan State University

James Pellegrino
PhD, University of Colorado

Kimberly Potowski
PhD, University of Illinois at Urbana-Champaign

Pamela A. Quiroz
PhD, University of Chicago

Josh Radinsky
PhD, Northwestern University

Taffy E. Raphael
PhD, University of Illinois at Urbana-Champaign

Aria Razfar
PhD, University of California, Los Angeles

Flora V. Rodriguez-Brown
PhD, University of Illinois at Urbana-Champaign

Karen M. Sakash
PhD, University of Illinois at Chicago

Christine Salisbury
PhD, University of Wisconsin–Madison

William H. Schubert
PhD, University of Illinois at Urbana-Champaign

Cynthia Shanahan
EdD, University of Georgia, Athens

Timothy E. Shanahan
PhD, University of Delaware

Celina M. Sima
PhD, Northwestern University

Everett Smith
PhD, University of Connecticut

Louanne Smolin
EdD, National-Louis University

Mark A. Smylie
PhD, Vanderbilt University

David O. Stovall
PhD, University of Illinois at Urbana-Champaign

Benjamin Superfine
PhD, JD, University of Michigan

Elizabeth Talbott
PhD, University of Virginia

William Teale
EdD, University of Virginia

Keith Thiede
PhD, University of Washington

Theresa Thorkildsen
PhD, Purdue University

Cynthia Toback
MEd, National-Louis University

Steven Tozer
PhD, University of Illinois at Urbana-Champaign

Richard Van Acker
EdD, Northern Illinois University

Maria Varelas
PhD, University of Illinois at Chicago

William H. Watkins
PhD, University of Illinois at Chicago

Ward W. Weldon
PhD, Northwestern University

College of Engineering

Department of Bioengineering

Michael R. Cho
PhD, Drexel University

Yang Dai
PhD, University of Tsukuba, Japan

David Eddington
PhD, University of Wisconsin–Madison

Daniel Graupe
PhD, University of Liverpool (England)

John Hetling
PhD, University of Illinois at Chicago

Terry Layton
PhD, University of Illinois at Chicago

Jie Liang
PhD, University of Illinois at Urbana-Champaign

James C. Lin
PhD, University of Washington

Andreas Linninger
PhD, Vienna University of Technology

Hui Lu
PhD, University of Illinois at Urbana-Champaign

Richard L. Magin
PhD, University of Rochester

G. Ali Mansoori
PhD, University of Oklahoma

Percival McCormack
MD, PhD, Trinity College, Dublin

Susan McCormick
PhD, University of Texas at Arlington

Raghu Natarajan
PhD, University of London

William D. O'Neill
PhD, University of Notre Dame

Avinash Patwardhan
PhD, Oklahoma State University

Patrick Rousche
PhD, University of Utah

Michael A. Strosio
PhD, Yale University

Christos Takoudis
PhD, University of Minnesota

Department of Chemical Engineering

Kenneth Brezinsky
PhD, City University of New York
Andreas A. Linninger
PhD, Vienna University of Technology
G. Ali Mansoori
PhD, University of Oklahoma
Edward W. Funk
PhD, University of California, Berkeley
John H. Kiefer
PhD, Cornell University
Randall J. Meyer
PhD, University of Texas at Austin
Sohail Murad
PhD, Cornell University
Ludwig C. Nitsche
PhD, Massachusetts Institute of Technology
John R. Regalbuto
PhD, University of Notre Dame
Stephen Szepe
PhD, Illinois Institute of Technology
Christos G. Takoudis
PhD, University of Minnesota
Raffi M. Turian
PhD, University of Wisconsin–Madison
Lewis E. Wedgewood
PhD, University of Wisconsin–Madison

Department of Civil and Materials Engineering

Farhad Ansari
PhD, University of Illinois at Chicago
Robert H. Bryant
PhD, Northwestern University (Emeritus)
Alexander Chudnovsky
PhD, Leningrad Civil Engineering Institute
Christophe Darnault
PhD, Cornell University
Craig Foster
PhD, Stanford University
J. Ernesto Indacochea
PhD, Colorado School of Mines
Mohsen A. Issa
PhD, University of Texas at Arlington
Amid Khodadoust
PhD, University of Cincinnati
Donald G. Lemke
PhD, University of Pennsylvania
Jie (Jane) Lin
PhD, University of California, Davis
Michael J. McNallan
PhD, Massachusetts Institute of Technology
Abolfazl (Kouros) Mohammadian
PhD, University of Toronto
Krishna Reddy
PhD, Illinois Institute of Technology
Karl Rockne
PhD, University of Washington
Thomas L. Theis
PhD, University of Notre Dame
Ming L. Wang
PhD, University of New Mexico
Chien H. Wu
PhD, University of Minnesota

Department of Computer Science

Florin Balasa
PhD, Katholieke Universiteit Leuven, Belgium
John Bell
PhD, University of Wisconsin
Tanya Berger-Wolf
PhD, University of Illinois at Urbana-Champaign
Ugo A. Buy
PhD, University of Massachusetts

Isabel F. Cruz
PhD, University of Toronto, Canada
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PhD, University of Minnesota
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PhD, Ohio State University
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PhD, University of Pennsylvania
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PhD, University of California, Berkeley
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PhD, University of Southern California
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PhD, University of Illinois at Chicago
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PhD, University of Illinois at Urbana-Champaign
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PhD, Northwestern University
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PhD, Northwestern University
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PhD, Purdue University
Patrick A. Troy
MS, Pennsylvania State University
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PhD, Northeastern University
Venkat Venkatakrishnan
PhD, Stony Brook University
Ouri Wolfson
PhD, New York University
Clement T. Yu
PhD, Cornell University
Lenore Zuck
PhD, Weizmann Institute of Science, Israel

Department of Electrical and Computer Engineering

Gyan C. Agarwal
PhD, Purdue University (Emeritus)
Rashid Ansari
PhD, Princeton University
Prith Banerjee
PhD, University of Illinois at Urbana-Champaign
Robert A. Becker
MS, University of Illinois at Chicago
Jezekiel Ben-Arie
PhD, The Technion, Israel Institute of Technology
Wolfgang-Martin Boerner
PhD, University of Pennsylvania (Emeritus)
Masud Chowdhury
PhD, Northwestern University
Clifford R. Curry
PhD, University of Washington

Shantanu Dutt
PhD, University of Michigan

Mitra Dutta
PhD, University of Cincinnati

Danilo Erricolo
PhD, University of Illinois at Chicago

Alan D. Feinerman
PhD, Northwestern University

Siddhartha Ghosh
PhD, University of Michigan

Vladimir Goncharoff
PhD, Northwestern University

Daniel Graupe
PhD, University of Liverpool (England)

Bin He
PhD, Tokyo Institute of Technology (Adjunct)

Ashfaq Khokhar
PhD, University of Southern California

Sharad R. Laxpati
PhD, University of Illinois at Urbana-Champaign

Gyungho Lee
PhD, University of Illinois at Urbana-Champaign

James C. Lin
PhD, University of Washington

Derong Liu
PhD, University of Notre Dame

Sudip Mazumder
PhD, Virginia Tech

Vitali Metlushko
PhD, Moscow State University

Roland Priemer
PhD, Illinois Institute of Technology

Dan Schonfeld
PhD, Johns Hopkins University

Michael A. Strosio
PhD, Yale University

R. Michael Tanner
PhD, Stanford University

Daniela Tuninetti
PhD, Eurecom Institute (Telecom, Paris)

Piergiorgio L. Uslenghi
PhD, University of Michigan

Kaijie Wu
PhD, Brooklyn Polytechnic University

Hung-Yu Yang
PhD, University of California, Los Angeles

Yingwei Yao
PhD, Princeton University

Oliver Yu
PhD, University of British Columbia

Milos Zefran
PhD, University of Pennsylvania

Zhichun Zhu
PhD, William and Mary College

Department of Mechanical and Industrial Engineering

Elodie Adida
PhD, Massachusetts Institute of Technology

Suresh K. Aggarwal
PhD, Georgia Institute of Technology

Farid M. L. Amirouche
PhD, University of Cincinnati

Prashant Banerjee
PhD, Purdue University

Rodica Baranescu
PhD, Politehnica, University, Bucharest Romania

Kenneth Brezinsky
PhD, City University of New York

Elise Budyn
PhD, Northwestern University

Sabri Cetinkunt
PhD, Georgia Institute of Technology

Soyoung Cha
PhD, University of Michigan

P.M. Chung
PhD, University of Minnesota (Emeritus)

Houshang Darabi
PhD, Rutgers University

David M. France
PhD, University of California, Berkeley (Emeritus)

Krishna C. Gupta
PhD, Stanford University (Emeritus)

David He
PhD, University of Iowa

Lawrence A. Kennedy
PhD, Northwestern University (Emeritus)

Carmen M. Lilley
PhD, Northwestern University

Faydor L. Litvin
PhD, Leningrad Polytechnic Institute (Emeritus)

Francis Loth
PhD, Georgia Institute of Technology

Farzad Mashayek
PhD, State University of New York at Buffalo

Constantine M. Megaridis
PhD, Brown University

Floyd G. Miller
PhD, University of Illinois at Urbana-Champaign (Emeritus)

W. J. Minkowycz
PhD, University of Minnesota

Thomas J. Royston
PhD, Ohio State University

Laxman Saggere
PhD, University of Michigan–Ann Arbor

Michael Scott
PhD, California Institute of Technology

Ahmed A. Shabana
PhD, University of Iowa

William M. Worek
PhD, Illinois Institute of Technology

Alexander Yarin
PhD, Institute for Problems in Mechanics, USSR Academy of Science

College of Liberal Arts and Sciences

Department of African American Studies

Eric Arnesen
PhD, Yale University

Natasha B. Barnes
PhD, University of Michigan

Cynthia M. Blair
PhD, Harvard University

Michelle R. Boyd
PhD, Northwestern University

Nicholas M. Brown
PhD, Duke University

Madhu Dubey
PhD, University of Illinois at Urbana-Champaign

Tyrone Forman
PhD, University of Michigan

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PhD, Columbia University

Helen Jun
PhD, University of California, San Diego

Lansiné Kaba
PhD, Northwestern University (Emeritus)

Amanda E. Lewis
PhD, University of Michigan

Barbara Ransby
PhD, University of Michigan

Beth E. Richie
PhD, City University of New York

Kerry Ann Rockquomore
PhD, University of Notre Dame
Philip M. Royster
PhD, Loyola University Chicago
David Stovall
PhD, University of Illinois at Urbana-Champaign
Cassandra Veney
PhD, University of Missouri–Columbia
Paul T. Zeleza
PhD, Dalhousie University, Canada

Department of Anthropology

Elizabeth Abrams-Rich
PhD, University of Michigan
Brian Bauer
PhD, University of Chicago
Bennet Bronson (Field Museum)
PhD, University of Pennsylvania
L. Antonio Curet (Field Museum)
PhD, Arizona State University
Gary M. Feinman (Field Museum)
PhD, City University of New York
Susan T. Freeman
PhD, Harvard University (Emerita)
Jonathan Haas (Field Museum)
PhD, Columbia University
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PhD, University of Wisconsin–Madison (Emeritus)
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PhD, University of California, Berkeley (Emeritus)
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PhD, University of Michigan
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DPhil, Oxford University
Waud H. Kracke
PhD, University of Chicago
Chapurukha Makokha Kusimba (Field Museum)
PhD, Bryn Mawr
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PhD, University of Pittsburgh (Emeritus)
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PhD, University of Pennsylvania
Robert Martin (Field Museum)
DPhil, Oxford University
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PhD, University of Pennsylvania
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PhD, Vanderbilt University
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PhD, Southern Methodist University (Emeritus)
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PhD, University of Chicago
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PhD, Emory University
Anna Curtenius Roosevelt
PhD, Columbia University
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PhD, Harvard University
Anne Underhill (Field Museum)
PhD, University of British Columbia, Canada
Sylvia J. Vatuk
PhD, Harvard University (Emerita)
Alaka Wali (Field Museum)
PhD, Columbia University
Patrick Ryan Williams (Field Museum)
PhD, University of Florida
Sloan R. Williams
PhD, Northwestern University

Program in Geography

Bruce G. Gladfelter
PhD, University of Chicago (Emeritus)

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PhD, University of Nebraska (Emeritus)
David M. Solzman
PhD, University of Chicago (Emeritus)
Siim Soot
PhD, University of Washington (Emeritus)
Clifford E. Tiedeman
PhD, Michigan State University (Emeritus)

Department of Biological Sciences

Aixa Alfonso
PhD, University of Wisconsin–Madison
Simon Trevor Alford
PhD, University of London
Louise E. Anderson
PhD, Cornell University
Mary V. Ashley
PhD, University of California, San Diego
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PhD, University of Kansas (Emeritus)
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PhD, Northwestern University (Emeritus)
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PhD, University of Illinois at Chicago
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PhD, Yale University (Emeritus)
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PhD, Utah State University
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PhD, University of Chicago (Emeritus)
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PhD, University of Oklahoma (Emeritus)
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PhD, University of Barcelona
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PhD, University of Kansas (Emeritus)
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PhD, University of Michigan–Ann Arbor
F. Marion Hulett
PhD, University of Illinois at Urbana-Champaign (Emerita)
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PhD, George Washington University (Emeritus)
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PhD, State University of New York at Stony Brook
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PhD, Yale University
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PhD, Ohio State University
M. A. Q. Khan
MD, PhD, University of Western Ontario (Emeritus)
John P. Leonard
PhD, Cornell University
Susan W. Liebman
PhD, University of Rochester
John F. Lussenhop
PhD, University of Wisconsin–Madison (Emeritus)

Robert Paul Malchow
PhD, State University of New York at Stony Brook

Emanuel Margoliash
MD, American University of Beirut (Emeritus)

David B. Mertz
PhD, University of Chicago (Emeritus)

Leo Miller
PhD, University of Rochester (Emeritus)

Donald A. Morrison
PhD, Yale University

A. Donald Murphy
PhD, University of Iowa

Darrel L. Murray
PhD, Purdue University (Emeritus)

Brian P. Nichols
PhD, University of Iowa

John A. Nicolette
PhD, University of Illinois at Urbana-Champaign (Emeritus)

Dennis W. Nyberg
PhD, University of Illinois at Urbana-Champaign

Peter G. Okkema
PhD, University of Wisconsin–Madison

Teresa V. Orenic
PhD, Northwestern University

Thomas J. Park
PhD, University of Maryland

Emanuel D. Pollack
PhD, University of Iowa

Thomas L. Poulson
PhD, University of Michigan (Emeritus)

Janet E. Richmond
PhD, University of Calgary

Albert S. Rouffa
PhD, Rutgers University (Emeritus)

Jennifer V. Schmidt
PhD, Northwestern University

Nava Segev
PhD, Tel Aviv University

Stanley K. Shapiro
PhD, University of Wisconsin–Madison (Emeritus)

David Shomay
PhD, University of Illinois at Urbana-Champaign (Emeritus)

Sidney B. Simpson, Jr.
PhD, Tulane University (Emeritus)

Eliot B. Spiess
PhD, Harvard University (Emeritus)

David E. Stone
PhD, University of Wisconsin–Madison

Q. Tian Wang
PhD, Northwestern University

Steven G. Weaver
PhD, University of Michigan (Emeritus)

Robert B. Willey
PhD, Harvard University (Emeritus)

Ruth L. Willey
PhD, Harvard University (Emerita)

Heman J. Witmer
PhD, Indiana University (Emeritus)

David H. Wise
PhD, University of Michigan

Department of Chemistry

Anita Morton Balch
PhD, University of Chicago

Ronald J. Baumgarten
PhD, Johns Hopkins University (Emeritus)

Richard P. Burns
PhD, University of Chicago

Wonhwa Cho
PhD, University of Chicago

David Crich
DSC, University of Paris (France)

Tom G. Driver
PhD, University of California, Irvine

Sharon Fetzter Gislason
PhD, University of Illinois at Chicago

Wade A. Freeman
PhD, University of Michigan (Emeritus)

Leslie Wo-Mei Fung
PhD, Massachusetts Institute of Technology

Vladimir Gevorgyan
PhD, Institute Organic Synthesis (Riga, Latvia)

Eric A. Gislason
PhD, Harvard University

Robert J. Gordon
PhD, Harvard University

Audrey Hammerich
PhD, University of California, Los Angeles

Luke Hanley
PhD, State University of New York at Stony Brook

Yoshitaka Ishii
PhD, Kyoto University (Japan)

Cynthia Jameson
PhD, University of Illinois at Urbana-Champaign (Emerita)

Richard J. Kassner
PhD, Yale University (Emeritus)

Timothy A. Keiderling
PhD, Princeton University

Petr Kral
PhD, Czech Academy of Sciences (Czech Republic)

Pierre LeBreton
PhD, Harvard University (Emeritus)

Lawrence Miller
PhD, University of Wisconsin–Madison

Neil Miranda
PhD, Wayne State University

Robert M. Moriarty
PhD, Princeton University (Emeritus)

John A. Morrison
PhD, University of Maryland (Emeritus)

Martin Newcomb
PhD, University of Illinois at Urbana-Champaign

Scott Shippy
PhD, University of Illinois at Urbana-Champaign

Preston Snee
PhD, University of California, Berkeley

George Papadantonakis
PhD, University of Illinois at Chicago

Boon K. Teo
PhD, Chinese University (Hong Kong)

Michael Trenary
PhD, Massachusetts Institute of Technology

Robert I. Walter
PhD, University of Chicago (Emeritus)

Duncan J. Wardrop
PhD, University of Glasgow

Robert Widing
PhD, University of Chicago

Donald J. Wink
PhD, Harvard University

Paul R. Young, Jr.
PhD, University of South Florida (Emeritus)

Department of Classics and Mediterranean Studies

Pietro Bortone
DPhil, Oxford University

James H. Dee
PhD, University of Texas at Austin (Emeritus)

Matthew W. Dickie
PhD, University of Toronto (Emeritus)

Elizabeth R. Gebhard
PhD, University of Chicago (Emerita)

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PhD, University of Wisconsin
Alexander P. MacGregor, Jr.
PhD, University of Chicago
Karen Manchester
PhD, University of California, Los Angeles
Nanno Marinatos
PhD, University of Colorado at Boulder
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PhD, Harvard University
David Reisman
PhD, Yale University
Jennifer L. Tobin
PhD, University of Pennsylvania
John Vaio
PhD, Columbia University

Department of Communication

Kevin G. Barnhurst
PhD, University of Amsterdam
Hui-Ching Chang
PhD, University of Illinois at Urbana-Champaign
James A. Danowski
PhD, Michigan State University
Patricia Harkin
PhD, Miami University (Ohio)
John A. Jones
PhD, University of Illinois at Urbana-Champaign
Steve Jones
PhD, University of Illinois at Urbana-Champaign
Bruce Laurence Lambert
PhD, University of Illinois at Urbana-Champaign (Emeritus)
Rebecca Ann Lind
PhD, University of Minnesota
Andrew Rojecki
PhD, Northwestern University
James J. Sosnoski
PhD, Pennsylvania State University

Department of Criminal Justice

Lisa G. Frohmann
PhD, University of California, Los Angeles
John M. Hagedorn
PhD, University of Wisconsin–Milwaukee
Wayne A. Kerstetter
JD, University of Chicago Law School (Emeritus)
Mindie Lazarus-Black
PhD, University of Chicago
Edna Erez
PhD, University of Pennsylvania
Matthew R. Lippman
PhD, Northwestern University
LLM, Harvard University
Michael D. Maltz
PhD, Stanford University (Emeritus)
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PhD, Loyola University Chicago
Greg Matoesian
PhD, University of Missouri–Columbia
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JD, Harvard University (Emeritus)
Joseph L. Peterson
DCrim, University of California, Berkeley (Emeritus)
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PhD, City University of New York
Dennis P. Rosenbaum
PhD, Loyola University Chicago
Laurie Schaffner
PhD, University of California, Berkeley
Amie M. Schuck
PhD, University at Albany, New York

Sarah E. Ullman
PhD, Brandeis University

Department of Earth and Environmental Sciences

Robert E. DeMar
PhD, University of Chicago (Emeritus)
Peter Doran
PhD, University of Nevada, Reno
Todd Dupont
PhD, Pennsylvania State University
Martin F. J. Flower
PhD, University of Manchester
Steven L. Forman
PhD, University of Colorado
Stephen J. Guggenheim
PhD, University of Wisconsin–Madison
Fabien Kenig
PhD, Université d'Orléans (France)
August F. Koster van Groos
PhD, University of Leiden (The Netherlands) (Emeritus)
Kathryn L. Nagy
PhD, Texas A&M University
Roy E. Plotnick
PhD, University of Chicago
Kelvin S. Rodolfo
PhD, University of Southern California (Emeritus)
Carol A. Stein
PhD, Columbia University
Neil C. Sturchio
PhD, Washington University

Department of English

Michael Anania
BA, University of Omaha (Emeritus)
Jennifer Ashton
PhD, Johns Hopkins University
Natasha Barnes
PhD, University of Michigan
Thomas Bestul
PhD, Harvard University
Nicholas Brown
PhD, Duke University
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PhD, University of Pennsylvania
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PhD, Johns Hopkins University
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PhD, University of California, Berkeley
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PhD, University of Illinois at Chicago
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PhD, New York University (Emerita)
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PhD, Columbia University
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PhD, University of Michigan–Ann Arbor
Madhu Dubey
PhD, University of Illinois at Urbana-Champaign
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PhD, Georgetown University (Emerita)
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PhD, State University of New York at Buffalo
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PhD, University of Pennsylvania
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PhD, Columbia University
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PhD, University of Chicago
Robin Grey
PhD, University of California, Los Angeles
Christopher Grimes
PhD, University of Wisconsin–Milwaukee

Rachel Havrelock
PhD, University of California, Berkeley

Brian Higgins
PhD, University of Southern California (Emeritus)

S. Clark Hulse
PhD, Claremont Graduate School

John W. Huntington
PhD, University of California, Berkeley

Kyoko Inoue
PhD, University of Michigan (Emerita)

Elliot L. Judd
PhD, New York University

Helen Jun
PhD, University of California, San Diego

Howard H. Kerr
PhD, University of California, Los Angeles (Emeritus)

Jay A. Levine
PhD, Johns Hopkins University (Emeritus)

Michael J. Lieb
PhD, Rutgers University

Ned Lukacher
PhD, Duke University

Adam Makkai
PhD, Yale University (Emeritus)

Sylvia Manning
PhD, Yale University

Donald G. Marshall
PhD, Yale University (Emeritus)

Cris Mazza
MFA, City University of New York, Brooklyn

John C. Mellon
EdD, Harvard University (Emeritus)

Christian K. Messenger
PhD, Northwestern University

Walter Benn Michaels
PhD, University of California, Santa Barbara

Ralph J. Mills
PhD, Northwestern University (Emeritus)

Christina Pugh
PhD, Harvard University

Sterling Plumm
BA, Roosevelt University (Emeritus)

Lawrence S. Poston
PhD, Princeton University (Emeritus)

John S. Rohsenow
PhD, University of Michigan (Emeritus)

Mary Beth Rose
PhD, Duke University

Philip Royster
PhD, Loyola University Chicago

A. LaVonne Brown Ruoff
PhD, Northwestern University (Emerita)

Gene W. Ruoff
PhD, University of Wisconsin–Madison (Emeritus)

David W. Schaafsma
PhD, University of Michigan–Ann Arbor

Jaroslav Schejbal
PhD, Charles University (Prague) (Emeritus)

Natalie Schmitt
PhD, Stanford University (Emerita)

James P. Sloan
BA, Harvard University (Emeritus)

Gerald C. Sorensen
PhD, University of Minnesota (Emeritus)

Joseph Tabbi
PhD, University of Toronto

Alfred Thompson
PhD, Cambridge University

Luis Urrea
MA, University of Colorado at Boulder

Virginia W. Wexman
PhD, University of Chicago (Emerita)

Terence Whalen
PhD, Duke University

Eugene Wildman
MA, University of Chicago

Jessica Williams
PhD, University of Pennsylvania

Martin L. Wine
PhD, Harvard University (Emeritus)

Anne Winters
PhD, University of California, Berkeley

Dale E. Woolley
PhD, University of Illinois at Urbana-Champaign (Emeritus)

Xuehua Xiang
PhD, Pennsylvania State University

Gender and Women's Studies Program

Sandra Bartky
PhD, University of Illinois at Urbana-Champaign (Emerita)

Jennifer Brier
PhD, Rutgers University

John D'Emilio
PhD, Columbia University

Judith K. Gardiner
PhD, Columbia University

Elena Gutierrez
PhD, University of Michigan

Lynette Jackson
PhD, Columbia University

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PhD, Johns Hopkins University

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PhD, Emory University

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PhD, City University of New York

Stephanie Riger
PhD, University of Michigan

Katrin Schultheiss
PhD, Harvard University

Margaret A. Strobel
PhD, University of California, Los Angeles. (Emerita)

Cassandra Veney
PhD, University of Missouri–Columbia

Department of Germanic Studies

Sara Hall
PhD, University of California, Berkeley

Lee B. Jennings
PhD, University of Illinois at Urbana-Champaign (Emeritus)

Helga Kraft
PhD, University of California, Berkeley

Elizabeth Loentz
PhD, Ohio State University

Dagmar Lorenz
PhD, University of Cincinnati

Susanne Rott
PhD, University of Illinois at Urbana-Champaign

Leroy Shaw
PhD, University of California, Berkeley (Emeritus)

Astrida Orle Tantilto
PhD, University of Chicago

Alfred Thompson
PhD, Cambridge University

David M. Weible
PhD, University of Kansas

Robert R. Williams
PhD, Columbia University–Union Theological Seminary

Department of History

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PhD, University of Toronto

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PhD, Yale University

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PhD, Princeton University

Cynthia Blair
PhD, Harvard University

Burton J. Bledstein
PhD, Princeton University

Christopher Boyer
PhD, University of Chicago

Bruce J. Calder
PhD, University of Texas at Austin

Corey Capers
PhD, University of California, Santa Cruz

Elsbeth Carruthers
PhD, Princeton University

James E. Cracraft
DPhil, Oxford University

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PhD, Rutgers University

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PhD, Harvard University

John D'Emilio
PhD, Columbia University

Gerald A. Danzer
PhD, Northwestern University (Emeritus)

Perry R. Duis
PhD, University of Chicago

Carolyn A. Edie
PhD, University of Wisconsin–Madison (Emerita)

Steven Fanning
PhD, University of Minnesota

Malgorzata Fidelis
PhD, Stanford University

Leon Fink
PhD, University of Rochester

Richard M. Fried
PhD, Columbia University

Bentley B. Gilbert
PhD, University of Wisconsin–Madison (Emeritus)

William A. Hoisington, Jr.
PhD, Stanford University (Emeritus)

Melvin G. Holli
PhD, University of Michigan (Emeritus)

Kirk Hoppe
PhD, Boston University

Brian Hosmer
PhD, University of Texas at Austin

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PhD, University of Pennsylvania

George Huppert
PhD, University of California, Berkeley

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PhD, Harvard University

Robert Johnston
PhD, Rutgers University

Peter d'A. Jones
PhD, London School of Economics (Emeritus)

David P. Jordan
PhD, Yale University (Emeritus)

Nicole T. Jordan
PhD, London School of Economics

Lansiné Kaba
PhD, Northwestern University (Emeritus)

Louise Kerr
PhD, University of Illinois at Chicago (Emerita)

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PhD, Columbia University (Emeritus)

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PhD, City University of New York

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PhD, Yale University

Mark Liechty
PhD, University of Pennsylvania

Deirdre McCloskey
PhD, Harvard University

Rama Mantena
PhD, University of Michigan

Stanley Mellon
PhD, Princeton University (Emeritus)

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PhD, University of California, Berkeley (Emeritus)

Marion S. Miller
PhD, University of Pennsylvania (Emerita)

Guity Nashat
PhD, University of Chicago

Michael Perman
PhD, University of Chicago

Julie L. Peters
MAT, University of Illinois at Chicago

Barbara Ransby
PhD, University of Michigan

Robert V. Remini
PhD, Columbia University (Emeritus)

James J. Sack
PhD, University of Michigan

Leo Schelbert
PhD, Columbia University (Emeritus)

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PhD, Harvard University

James Searing
PhD, Princeton University

Daniel S. Smith
PhD, University of California, Berkeley

Astrida Orle Tantillo
PhD, University of Chicago

Edward C. Thaden
PhD, University of Paris (Emeritus)

Javier Villa-Flores
PhD, University of California, San Diego

Ina Zweiniger-Bargielowska
PhD, Cambridge University

Latin American and Latino Studies Program

Frances Aparicio
PhD, Harvard University

Christopher Boyer
PhD, University of Chicago

Ralph Cintron
PhD, University of Illinois at Chicago

Nilda Flores-González
PhD, University of Chicago

Elena Gutiérrez
PhD, University of Michigan

Alejandro Madrid
PhD, Ohio State University

Suzanne Oboler
PhD, New York University

Joel Palka
PhD, Vanderbilt University

Amalia Pallares
PhD, University of Texas at Austin

Cristian Roa-de-la-Carrera
PhD, Princeton University

Maria de los Angeles Torres
PhD, University of Michigan

Javier Villa-Flores
PhD, University of California, San Diego

Department of Mathematics, Statistics, and Computer Science

Rafail Abramov
PhD, Rensselaer Polytechnic Institute

Ian Agol
PhD, University of California, San Diego

- Matthias Aschenbrenner
PhD, University of Illinois at Urbana-Champaign
- A. O. L. Atkin
PhD, Cambridge University (Emeritus)
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PhD, Simon Fraser University (Canada)
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PhD, Stanford University (Emeritus)
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PhD, New York University (Emeritus)
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PhD, Massachusetts Institute of Technology (Emeritus)
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PhD, University of Buenos Aires (Emeritus)
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PhD, University of Michigan
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PhD, Queen's University (Canada)
- Marc Culler
PhD, University of California, Berkeley
- Lawrence Ein
PhD, University of California, Berkeley
- Emad El-Newehi
PhD, Florida State University
- Nasrollah Etemadi
PhD, University of Minnesota (Emeritus)
- Paul Fong
PhD, Harvard University (Emeritus)
- Shmuel Friedland
DSc, Technion (Israel)
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PhD, Princeton University
- Alexander Furman
PhD, Hebrew University (Israel)
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PhD, Harvard University
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PhD, Cornell University
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PhD, University of Illinois at Urbana-Champaign
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PhD, Northwestern University
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PhD, California Institute of Technology
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PhD, Rice University (Emeritus)
- Anatoly S. Libgober
PhD, Tel Aviv University (Israel)
- Charles S. C. Lin
PhD, University of California, Berkeley (Emeritus)
- Dibyen Majumdar
PhD, Indian Statistical Institute (India)
- Glenn K. Manacher
PhD, Carnegie Institute of Technology (Emeritus)
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PhD, University of California, Berkeley
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PhD, University of Minnesota
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PhD, University of Heidelberg,
Dr Habil, University of Mainz (Germany)
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PhD, University of Illinois at Urbana-Champaign
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PhD, University of Waterloo (Canada)
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PhD, Northwestern University (Emeritus)
- David E. Radford
PhD, University of North Carolina at Chapel Hill
- T. E. S. Raghavan
PhD, Indian Statistical Institute (India)
- G.V. Ramanathan
PhD, Princeton University (Emeritus)
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PhD, Massachusetts Institute of Technology
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DSc, Polish Academy of Sciences
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PhD, New York University
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- Jing Wang
PhD, Michigan State University
- Avrum I. Weinzweig
PhD, Harvard University
- Kevin Whyte
PhD, University of Chicago

John W. Wood
PhD, University of California, Berkeley
Jie Yang
PhD, University of Chicago
Stephen S. T. Yau
PhD, State University of New York at Stony Brook

Department of Philosophy

Sandra L. Bartky
PhD, University of Illinois at Urbana-Champaign (Emerita)
Charles H. Chastain
PhD, Princeton University (Emeritus)
George T. Dickie
PhD, University of California, Los Angeles (Emeritus)
Gerald Dworkin
PhD, University of California, Berkeley (Emeritus)
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PhD, University of Chicago
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PhD, University of Pittsburgh
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PhD, Yale University
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PhD, Indiana University
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PhD, University of Pittsburgh (Emerita)
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PhD, Harvard University
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PhD, Stanford University
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PhD, Rutgers, The State University of New Jersey
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PhD, Princeton University
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PhD, Harvard University
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PhD, Princeton University
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PhD, McGill University (Canada)
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PhD, Harvard University
Sally Sedgwick
PhD, University of Chicago
Georgette Sinkler
PhD, Cornell University
Daniel Sutherland
PhD, University of California, Los Angeles
W. Kent Wilson
PhD, University of Pittsburgh (Emeritus)

Department of Physics

Mark R. Adams
PhD, State University of New York at Stony Brook
Anjum Ansari
PhD, University of Illinois at Urbana-Champaign
Henrik Aratyn
PhD, University of Copenhagen
Olga Barannikova
PhD, Ivanovo State University, (Russia)
Inder P. Batra
PhD, Simon Fraser University (Canada)
R. Russell Betts
PhD, University of Pennsylvania
Juan-Carlos Campuzano
PhD, University of Wisconsin–Milwaukee
Cecilia Gerber
PhD, Universidad de Buenos Aires

Christoph Grein
PhD, Princeton University
Clive Halliwell
PhD, University of Manchester
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PhD, State University of New York at Stony Brook
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PhD, University of Texas at Austin
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PhD, University of Wisconsin–Madison
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PhD, University of Illinois at Chicago
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PhD, University of California, San Diego
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PhD, Yale University
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PhD, University of Maryland (Emeritus)
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PhD, University of Wisconsin–Madison
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PhD, Yale University
Charles K. Rhodes
PhD, Massachusetts Institute of Technology
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PhD, Cornell University
W. Andreas Schroeder
PhD, University of London
Sivalingam Sivananthan
PhD, University of Illinois at Chicago
Mikhail Stephanov
PhD, Oxford University
Nikos Varelas
PhD, University of Rochester

Department of Political Science

Isaac D. Balbus
PhD, University of Chicago
Seung-Whan Choi
PhD, University of Missouri
Stephen Engelmann
PhD, Johns Hopkins University
John Gardiner
PhD, Harvard University (Emeritus)
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PhD, Columbia University
Zeev Yoram Haftel
PhD, Ohio State University
Richard M. Johnson
PhD, University of Illinois at Urbana-Champaign (Emeritus)
Dennis Judd
PhD, University of Illinois at Urbana-Champaign
Rasma Karklins
PhD, University of Chicago
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PhD, Cornell University (Emeritus)
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PhD, Washington University, St. Louis
Andrew McFarland
PhD, University of California, Berkeley
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PhD, University of Southern California
JD, University of California, Los Angeles
Norma Moruzzi
PhD, Johns Hopkins University
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PhD, University of Texas at Austin
Barry S. Rundquist
PhD, Stanford University
Dick W. Simpson
PhD, Indiana University

Gerald S. Strom
PhD, University of Illinois at Urbana-Champaign
Frank Tachau
PhD, University of Chicago (Emeritus)
Sultan Tepe
PhD, University of Texas at Austin
Brandon G. Valeriano
PhD, Vanderbilt University

Department of Psychology

Gershon B. Berkson
PhD, George Peabody College for Teachers (Emeritus)
Dina Birman
PhD, University of Maryland
Bette L. Bottoms
PhD, State University of New York at Buffalo
Daniel P. Cervone
PhD, Stanford University
Roger L. Dominowski
PhD, Northwestern University (Emeritus)
Sabine French
PhD, New York University
Susan Goldman
PhD, University of Pittsburgh
Laurence G. Grimm
PhD, University of Illinois at Urbana-Champaign (Emeritus)
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PhD, University of Pittsburgh
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PhD, University of Texas at Austin (Emeritus)
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PhD, University of Cincinnati (Emeritus)
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PhD, University of Washington
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PhD, Rockefeller University
Pauline Maki
PhD, University of Minnesota
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PhD, McGill University
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PhD, University of Oregon
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PhD, University of Stockholm
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PhD, University of Colorado
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PhD, University of Virginia
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PhD, University of Florida
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PhD, University of York (England)
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PhD, DePaul University
Stephanie Riger
PhD, University of Michigan
Mitchell Roitman
PhD, University of Washington
Alexander J. Rosen
PhD, University of Rochester (Emeritus)
Audrey J. Ruderman
PhD, Rutgers, State University of New Jersey
Stewart Shankman
PhD, State University of New York at Stonybrook
Linda J. Skitka
PhD, University of California, Berkeley
Joseph P. Stokes
PhD, University of Illinois at Chicago (Emeritus)
Edison Trickett
PhD, Ohio State University
Roger P. Weissberg
PhD, University of Rochester

Jennifer Wiley
PhD, University of Pittsburgh
David Wirtshafter
PhD, University of Illinois at Chicago
Katie Witkiewitz
PhD, University of Washington

Department of Slavic and Baltic Languages and Literatures

Sona Hoisington
PhD, Yale University (Emeritus)
Violeta Kelertas
PhD, University of Wisconsin–Madison
Alex S. Kurczaba
PhD, University of Illinois at Urbana-Champaign
Lauren G. Leighton
PhD, University of Wisconsin–Madison (Emeritus)
Nicholas Moravcevic
PhD, University of Wisconsin–Madison (Emeritus)
Olga B. Nedeljkovic
PhD, Belgrade University (Yugoslavia)
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PhD, Rutgers University (Emeritus)
Biljana Sljivic-Simsic
PhD, Harvard University
Wanda L. Sorgente
PhD, Northwestern University (Emeritus)
Giedrius Subacius
PhD, Vilnius University (Lithuania)
Julia Vaingurt
PhD, Harvard University
Bronius Vaskelis
PhD, University of Pennsylvania (Emeritus)
Irene V. Zaluski
MA, Columbia University

Department of Sociology

Richard E. Barrett
PhD, University of Michigan
William P. Bridges
PhD, Northwestern University
Xiangming Chen
PhD, Duke University
Sharon M. Collins
PhD, Northwestern University
Kathleen S. Crittenden
PhD, Purdue University (Emerita)
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PhD, University of Chicago
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PhD, University of California, Santa Barbara
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PhD, University of Chicago
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David Rubinstein
PhD, University of Colorado (Emeritus)

Moshe Semyonov
PhD, State University of New York at Stony Brook
Richard Warnecke
PhD, Duke University (Emeritus)
R. Stephen Warner
PhD, University of California, Berkeley

Department of Spanish, French, Italian, and Portuguese

Reinaldo Ayerbe-Chaux
PhD, New York University (Emeritus)
Violet Berquist-Redding
MA, University of Chicago (Emerita)
Lucille V. Braun
PhD, University of Wisconsin–Madison (Emerita)
Mauda Bregoli-Russo
PhD, University of Chicago
Jose Buergo
PhD, University of Illinois at Urbana-Champaign (Emeritus)
Richard Cameron
PhD, University of Pennsylvania
James D. Compton
PhD, University of Wisconsin–Madison (Emeritus)
Peter V. Conroy, Jr.
PhD, University of Wisconsin–Madison (Emeritus)
Pedro J. Cordova, Jr.
PhD, University of Illinois at Urbana-Champaign
Lucía E. Elías-Olivares
PhD, University of Texas at Austin (Emerita)
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PhD, University of Cologne
Cristina Gagnani
PhD, Harvard University
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PhD, University of Chicago (Emerita)
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PhD, New York University
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PhD, Cornell University
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PhD, Harvard University (Emerita)
James Maharg
PhD, University of Illinois at Urbana-Champaign (Emeritus)
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PhD, Harvard University (Emeritus)
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Brandeis University
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PhD, University of Minnesota
Kimberly Potowski
PhD, University of Illinois at Urbana-Champaign
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PhD, University of Wisconsin–Madison (Emeritus)
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PhD, Universidad Complutense (Madrid) (Emerita)
Gabriel Riera
PhD, University of California, Irvine
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PhD, Princeton University
Margarita Saona
PhD, Columbia University

Leda B. Schiavo
PhD, Universidad Complutense (Madrid) (Emerita)
Marie-Odile Sweetser
PhD, University of Pennsylvania (Emerita)
Elizabeth Dolly Weber
PhD, University of Wisconsin–Madison

College of Nursing

Mary A. Anderson
PhD, University of Iowa
Vicki Andreoni
MS, University of Illinois at Chicago
Marsha Atkins
MS, University of St. Francis
Kathleen Baldwin
PhD, University of Illinois at Chicago
Gary Bargstadt
MS, University of North Carolina
Cynthia Barnes-Boyd
PhD, University of Illinois at Chicago
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MS, University of Illinois at Chicago
Barbara Berger
PhD, University of Illinois at Chicago
Martha Bergren
DNS, University at Buffalo
Jean Berry
PhD, University of Illinois at Chicago
Lisa Berry
MS, University of Illinois at Chicago
Gloria Bonner
PhD, University of Illinois at Chicago
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MSN, University of California, Los Angeles
Susan Braun
MS, University of Illinois at Chicago
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PhD, Cornell University
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PhD, University of Michigan
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PhD, Wayne State University
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PhD, University of Texas
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PhD, University of Illinois at Chicago
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MPH, University of Michigan
Heeseung Choi
DNS, University of Texas Health Sciences
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MS, University of Illinois at Chicago
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PhD, Rush University
Eileen Collins
PhD, Loyola University
Anita Coon
MS, University of Illinois at Chicago
Susan Corbridge
MS, Rush University
Colleen Corte
PhD, University of Michigan
Margaret Covey
PhD, University of Illinois at Chicago
Linda Cox
MS, University of Illinois at Chicago
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PhD, University of Illinois at Chicago
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Judy Davis
PhD, Rush University

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MS, University of Illinois at Chicago
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MS, University of Illinois at Chicago
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MS, University of Illinois at Chicago
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MS, University of Illinois at Chicago
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MS, University of Illinois at Chicago
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MA, University of Iowa
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MS, University of Illinois at Chicago
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PhD, University of Illinois at Chicago
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PhD, University of Illinois at Chicago
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PhD, University of Wisconsin
- Christine Flannery
MSN., Governor's State University
- Marquis Foreman
PhD, University of Illinois at Chicago
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MSN, University of California
- Agatha Gallo
PhD, University of Pennsylvania
- Ann Garey
MS, University of Illinois at Chicago
- Cheryl Gilkerson
MS, DePaul University
- Carmen Giurgescu
PhD, Loyola University
- Geraldine Gorman
PhD, Loyola University
- Linda Graves
MS, University of Illinois at Chicago
- Eileen Hacker
PhD, University of Illinois at Chicago
- Martha Harter
PhD, University of Illinois at Urbana-Champaign
- Pamela Hill
PhD, University of Iowa
- Christie Hlawek
MS, University of Illinois at Chicago
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PhD, University of Illinois at Chicago
- Janean Holden
PhD, University of Michigan
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MS, University of Illinois at Chicago
- Tonda Hughes
PhD, University of Illinois at Chicago
- Carol Humphreys
DNSc, Indiana University
- Linda Irle
MS, Mennonite College of Nursing
- Mary Kapella
PhD, University of Illinois at Chicago
- Karen Kavanaugh
PhD, University of Illinois at Chicago
- Gail Keenan
PhD, University of Illinois at Chicago
- Denise Kent
MS, University of Illinois at Chicago
- Shahnaz Khavidi
ND, American Holistic College of Nutrition
- Jin Hee Kim
PhD, University of Illinois at Chicago
- Mi Ja Kim
PhD, University of Illinois at Chicago
- Yang-Soon Kim
PhD, University of Illinois at Chicago
- Maripat King
MS, Rush University
- Li Anne Kitchen
MS, Northern Illinois University
- Carrie Klima
PhD, University of Connecticut
- Kathy Kociak
MS, Rush University
- Wanda Korcz
MS, Northern Illinois University
- Teresa Krassa
PhD, Wayne State University
- Andrea Krzysko
MS, Rush University
- Janet Larson
PhD, University of Illinois at Chicago
- Eunice Lee
PhD, Rush University
- Catherine Leipold
MS, University of Maryland at Baltimore
- Deidra Lewandowski
MS, University of Illinois at Chicago
- Patricia Lewis
PhD, University of Illinois at Chicago
- Kathryn Luth
MS, University of Illinois at Chicago
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MSN, Loyola University
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PhD, Boston University
- Alicia Matthews
PhD, State University of New York at Binghamton
- Linda McCreary
PhD, University of Illinois at Chicago
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PhD, University of Illinois at Chicago
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EdD, Northern Illinois University
- Barbara McFarlin
PhD, University of Illinois at Chicago
- Margaret McGann
MS, St. Xavier University
- Linnea Mead
MSN, Loyola University
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MS, University of Illinois at Chicago
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PhD, Indiana University
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PhD, Northwestern University
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MS, University of Illinois at Chicago
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MS, University of Connecticut
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PhD, University of Illinois at Chicago
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MS, University of Illinois at Chicago
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MSN, Rush University
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PhD, University of Michigan
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MS, University of Illinois at Chicago
- Susan Ohlson
MS, University of Notre Dame
- Omoike Osedebamen
MS, University of Illinois at Chicago
- Anne Padwojski
PhD, St. Louis University

Susan Painter
MS, Georgia State University

Phyllis Pelt
MS, University of Illinois at Chicago

Marianne Piano
PhD, University of Illinois at Chicago

Natacha Pierre-Metellus
ND, Rush University

Diane Pineda
MS, University of Illinois at Chicago

Julie Pizzi
MS, University of Illinois at Chicago

Nancy Pogue
PhD, University of Illinois at Urbana-Champaign

Kathryn Powell
PhD, Rush University

Anita Preston
MSN, University of Illinois at Chicago

Tracy Purseglove
MS, University of Illinois at Chicago

Lauretta Quinn
PhD, University of Illinois at Chicago

Cathie Reynolds
MS, Indiana State University

Patrick Robinson
PhD, Loyola University

Tracy Rockey
MS, University of Illinois at Chicago

Julie Saunders
MS, University of Illinois at Chicago

Teresa Savage
PhD, University of Illinois at Chicago

Cheryl Schraeder
PhD, Indiana University

Ruth Schumacher
MSN, Loyola University

Dorie Schwartz
PhD, Medical College of Virginia

Marlene Sefton
PhD, University of Illinois at Chicago

Joan Shaver
PhD, University of Washington

Barbara Simmons
PhD, Loyola University

Kimberly Simpson
MS, Indiana University

Nancy Sislow
MS, Rush University

Lynda Slimmer
PhD, University of Illinois at Chicago

Marsha Snyder
PhD, Loyola University

Karen Solheim
PhD, University of Colorado Health Sciences Center

Kathleen Sparbel
MS, University of Illinois at Chicago

Sheryl Stogis
DrPH, University of Michigan

Judith Strofjell
PhD, University of Michigan

Marcia Stout
MS, North Park University

Karen Stratton
PhD, University of Colorado Health Sciences Center

Laura Szalacha
EdD, Harvard University

Bernard Tadda
MS, University of Illinois at Chicago

Marie Talashek
EdD, Northern Illinois University

Sandi Tenfelde
MS, Loyola University

Phavinee Thongkhong-Park
PhD, Benedictine University

Jennifer Tiffen
MS, Villanova University

Catherine Tredway
MS, University of Illinois at Chicago

Lorrita Verhey
MS, Northern Illinois University

Catherine Vincent
PhD, Wayne State University

Susan Vonderheid
PhD, University of Illinois at Chicago

Karen Vuckovic
MS, Northern Illinois University

Susan Walsh
MS, University of Illinois at Chicago

Edward Want
PhD, Case Western University

Karen Warner
MSN, St. Xavier College, Chicago

Julie White
MS, Rush University

Rosemary White-Traut
PhD, Rush University

JoEllen Wilbur
PhD, University of Illinois at Chicago

Diana Wilkie
PhD, University of California, San Francisco

Sue Wilson
MS, Rush University

Julia Zaiser
MS, University of Illinois at Chicago

Concetta Zak
ND, Rush University

Shannon Zenk
PhD, University of Washington

Julie Zerwic
PhD, University of Minnesota

College of Pharmacy

Debra L. Agard
PharmD, University of Illinois at Chicago

Richard J. Anzalone
PharmD, University of Illinois at Chicago

Ann T. Assam
PharmD, University of Illinois at Chicago

Clara Awe
EdD, Northern Illinois University
PhD, University of Illinois at Urbana-Champaign

Patricia A. Balow
BS, University of Illinois at Chicago

David W. Bartels
PharmD, University of Michigan

Jerry L. Bauman
PharmD, University of Missouri

Dale J. Beck
PhD, St. Louis University

William T. Beck
PhD, George Washington University

Melody L. Berg
PharmD, Midwestern University

Rakesh B. Beri
PharmD, University of Illinois at Chicago

Peggy S. Bickham
PharmD, University of Illinois at Chicago

Jeffrey R. Bishop
PharmD, University of Iowa

Sylvie Y. Blond
PhD, Pasteur Institute, University of Paris VII

Judy L. Bolton
PhD, University of Toronto

James D. Bono
MHA, University of Washington, Seattle

- Carson Bording
RPh, St. Louis College of Pharmacy
- Linda R. Bressler
PharmD, Duquesne University
- Leslie A. Briars
PharmD, University of Wisconsin
- Deborah Harper Brown
PharmD, University of Illinois at Chicago
- Karol S. Bruzik
PhD, Polish Academy of Science
- Adam J. Bursua
PharmD, University of Illinois at Chicago
- Margaret H. Byun
PharmD, University of Illinois at Chicago
- Bradley C. Cannon
PharmD, University of Illinois at Chicago
- Larisa H. Cavallari
PharmD, University of Georgia
- Isaac H. Cha
PharmD, University of Kansas
- Juliana Chan
PharmD, Massachusetts College of Pharmacy
- Linda F. Chang
PharmD, University of Illinois at Chicago
- Aimee B. Chevalier
PharmD, University of Illinois at Chicago
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PharmD, University of Illinois at Chicago
- Sandra Cuellar
PharmD, University of Illinois at Chicago
- Geoffrey A. Cordell
PhD, University of Manchester
- John A. Crawford
BS, University of Illinois at Chicago
- Stephanie Y. Crawford
PhD, University of Texas at Austin
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PharmD, University of Cincinnati
- Mariela Diaz-Linares
PharmD, Philadelphia College of Pharmacy and Science
- Gina Dibona
PharmD, Temple University
- Robert J. DiDomenico
PharmD, University of Illinois at Chicago
- Marlowe M. Djuric
PharmD, University of Illinois at Chicago
- Andrew J. Donnelly
PharmD, University of Illinois at Chicago
- Sandra F. Durley
PharmD, University of Illinois at Chicago
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PharmD, University of Illinois at Chicago
- Heather M. Schumann
PharmD, University of Illinois at Chicago
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PharmD, University of Illinois at Chicago
- Norman R. Farnsworth
PhD, University of Pittsburgh
- Richard G. Fiscella
MPH, University of Illinois at Chicago
- James H. Fischer
PharmD, University of Minnesota
- John Fitzloff
PhD, University of California, San Francisco
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PhD, Ohio State University
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PharmD, University of Illinois at Chicago
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PhD, University of Arizona
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PharmD, University of Minnesota
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PhD, Cornell University
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PharmD, University of Illinois at Chicago
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PhD, Purdue University
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PharmD, University of Wisconsin
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PharmD, University of Illinois at Chicago
- Donna M. Givone
PharmD, Medical University of South Carolina
- Robert C. Glowacki
PharmD, Creighton University School of Pharmacy
- Christina M. Godwin
PharmD, Midwestern University
- Julie Golembiewski
PharmD, University of Illinois at Chicago
- Kristen L. Goliak
PharmD, University of Illinois at Chicago
- Linda M. Grider
MBA, Benedictine University
- Shellee A. Grim
PharmD, Washington State University
- Vicki L. Groo
PharmD, Ohio State University
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PhD, University of Alabama
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PharmD, University of Texas at Austin
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PharmD, University of Illinois at Chicago
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PharmD, University of Illinois at Chicago
- Maria Hoffman
PharmD, University of Illinois at Chicago
- Sonia I. Ibrahim
PharmD, University of Illinois at Chicago
- Gail S. Itokazu
PharmD, Philadelphia College of Pharmacy and Science
- Rupali Jain
PharmD, University of Washington
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PharmD, PhD, University of Illinois at Chicago
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PhD, Northwestern University
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PhD, Albany University Medical College
- Keri S. Kim
PharmD, University of Illinois at Chicago
- Shiyun Kim
PharmD, University of Illinois at Chicago
- Mark J. Kliethermes
MBA, University of Chicago
- Mary Ann Kliethermes
PharmD, Philadelphia College of Pharmacy and Science
- Ronald L. Koch
PhD, University of Illinois at Chicago
- Kelly L. Kopec
PharmD, University of Illinois at Chicago
- Michael J. Koronkowski
PharmD, Purdue University
- Alan P. Kozikowski
PhD, University of California, Berkeley
- Donna M. Kraus
PharmD, University of Illinois at Chicago
- Courtney D. Krueger
PharmD, University of Iowa

- Ann M. Kuchta
PharmD, University of Illinois at Chicago
- Molly P. Kurpius
PharmD, University of Iowa
- Sami Labib
BS Pharmacy, University of Alexandria (Egypt)
- Bruce L. Lambert
PhD, University of Illinois at Urbana-Champaign
- Connie M. Larson
PharmD, University of Illinois at Chicago
- Alan H. Lau
PharmD, State University of New York at Buffalo
- Katherine S. Lee
PharmD, University of Illinois at Chicago
- Amy E. Lodolce
PharmD, University of Illinois at Chicago
- Matthias C. Lu
PhD, Ohio State University
- Gail B. Mahady
PhD, University of Illinois at Chicago
- Alexander S. Mankin
PhD, Moscow State University
- Blake E. Max
PharmD, University of California, San Francisco
- John M. McBride
BS, University of Illinois at Chicago
- Jennifer M. McFee
PharmD, University of Iowa
- Charles E. McPherson III
PharmD, University of Texas at Austin
- Andrew Mesecar
PhD, University of Notre Dame
- Craig A. Miller
MS, Northern Illinois University
- Jessica Mitchell
PharmD, University of Wisconsin–Madison
- Miriam A. Mobley Smith
PharmD, University of Illinois at Chicago
- Mary Lynn Moody
BS Pharmacy, University of Illinois at Chicago
- Kit Moy
BS Pharmacy, University of Illinois at Chicago
- Jeffrey J. Mucksavage
PharmD, Rutgers University College of Pharmacy
- Adam Negrusz
PhD, Nicholas Copernicus Medical University in Krakow, Poland
- Cheryl L. Nunn-Thompson
PharmD, University of Illinois at Chicago
- Edith Nutescu
PharmD, University of Illinois at Chicago
- Kirsten Ohler
PharmD, University of Toledo
- Hayat M. Onyuksel
PhD, University of London
- Jimmy Orjala
PhD, Swiss Federal Institute of Technology, Zurich
- Michael J. Pacini
PharmD, University of Illinois at Chicago
- Tania G. Padiyedathu
PharmD, University of Rhode Island
- Jamie L. Paek
PharmD, University of Illinois at Chicago
- Frank P. Paloucek
PharmD, Philadelphia College of Pharmacy and Science
- Louise S. Parent-Stevens
PharmD, University of California, San Francisco
- Seema T. Patel
PharmD, University of Illinois at Chicago
- Karen Pater
PharmD, University of Tennessee at Memphis
- Guido F. Pauli
PhD, Heinrich Heine University, Dusseldorf, Germany
- Annette N. Pellegrino
PharmD, University of Illinois at Chicago
- Pavel Petukhov
PhD, Novosibirsk Institute of Organic Chemistry, Russia
- Susan L. Peverly
PhD, Syracuse University
- Jennifer Pham
PharmD, University of Illinois at Chicago
- Thuy Pham
PharmD, University of Georgia
- A. Simon Pickard
PhD, University of Alberta, Canada
- Nicholas P. Plotnikoff
PhD, University of Texas at Galveston
- Nicholas G. Popovich
PhD, University of Illinois at Chicago
- Isabel Porto
PharmD, Massachusetts College of Pharmacy
- Latha Radhakrishnan
PharmD, University of Illinois at Chicago
- Edward D. Rickert
JD, Illinois Institute of Technology Chicago-Kent College of Law
- Keith A. Rodvold
PharmD, University of Minnesota
- Rosalie Sagraves
PharmD, Philadelphia College of Pharmacy and Science
- J. Warren Salmon
PhD, Cornell University
- R. Francis Schlemmer
PhD, University of Illinois at Chicago
- Mark E. Schneiderhan
PharmD, University of Kentucky
- Anne Marie Schullo-Feulner
PharmD, University of Minnesota
- Marieke Dekker Schoen
PharmD, University of Illinois at Chicago
- Glen T. Schumock
PharmD, University of Washington
- Nancy L. Shapiro
PharmD, University of Iowa
- James W. Shaw
PhD, University of Arizona
- Stacy S. Shord
PharmD, University of Maryland
- Daphne E. Smith
PharmD, University of Illinois at Chicago
- Renata O. Smith
PharmD, University of Illinois at Chicago
- Djaja D. Soejarto
PhD, Harvard University
- Joan M. Stachnik
PharmD, University of Illinois at Chicago
- JoAnn Stubbings
MHCA, University of Mississippi College of Pharmacy
- Steven M. Swanson
PhD, University of Illinois at Chicago
- Maria G. Tanzi-Samaan
PharmD, University of Illinois at Chicago
- Thomas TenHoeve III
PhD, Iowa State University
- Eljim P. Tesoro
PharmD, University of California, San Francisco
- Mathew Thambi
PharmD, University of Illinois at Chicago
- Gregory R. Thatcher
PhD, University of Toronto

James J. Thielke
PharmD, University of Cincinnati

Jessica Tilton
PharmD, Purdue University

Sheri Tokumaru
PharmD, University of Michigan

Margaret H. Tomecki
PharmD, University of Illinois at Chicago

Debra A. Tonetti
PhD, Loyola University Chicago

Daniel R. Touchette
PharmD, MA, Wayne State University

Raymond S. Traficante
BS Pharmacy, University of Illinois at Chicago

Richard B. Van Breemen
PhD, Johns Hopkins University

Sonia R. Vibhakar
PharmD, University of Illinois at Chicago

Donald P. Waller
PhD, Ohio State University

Surrey M. Walton
PhD, University of Chicago

Zaijie Jim Wang
PhD, University of California, San Francisco

Mitzi Wasik
PharmD, Midwestern University

Lori A. Wilken
PharmD, University of Toledo

Charles P. Woodbury
PhD, University of Wisconsin–Madison

Jean M.B. Woodward
PhD, University of Texas at Austin

Michelle Zgarick
PharmD, Midwestern University

College of Urban Planning and Public Affairs

Public Administration

George Beam
PhD, University of Michigan

L. Vaughn Blankenship
PhD, Cornell University (Emeritus)

Robin Hambleton
PhD, University of Bristol (Dean)

Rebecca Hendrick
PhD, Michigan State University

Allyson Hollbrook
PhD, Ohio State University

Timothy Johnson
PhD, University of Kentucky

Allan Lerner
PhD, University of Oregon

Sharon Mastracci
PhD, University of Texas at Austin

Julia Melkers
PhD, Syracuse University

Karen Mossberger
PhD, Wayne State University

Michael Pagano
PhD, University of Texas at Austin

James Thompson
PhD, Syracuse University

Richard Warnecke
PhD, Duke University

Eric Welsh
PhD, Syracuse University

Yonghong Wu
PhD, Syracuse University

Urban Planning and Policy Program

Kheir Al-Kodmany
PhD, University of Illinois at Urbana-Champaign

Phil Ashton
PhD, Rutgers University

John Betancur
PhD, University of Illinois at Chicago

Saurav Dev Bhatta
PhD, Cornell University

Philip Bowman
PhD, University of Michigan

Shirley Buttrick
PhD, University of Maryland (Emeritus)

Douglas Gills
PhD, Northwestern University

George Hemmens
PhD, Massachusetts Institute of Technology (Emeritus)

Charlie Hoch
PhD, University of California, Los Angeles

Martin Jaffe
JD, Wayne State Law School
LLM, DePaul School of Law

Kazuya Kawamura
PhD, University of California, Berkeley

Raffaella Nanetti
PhD, University of Illinois at Urbana-Champaign and
University of Michigan

Charles Orlebeke
PhD, Michigan State University (Emeritus)

David Perry
PhD, Syracuse University

David Ranney
PhD, Syracuse University (Emeritus)

Brent Ryan
PhD, Massachusetts Institute of Technology

Ashish Sen
PhD, University of Toronto (Emeritus)

Michael Shiffer
PhD, University of Illinois at Urbana-Champaign

Janet Smith
PhD, Cleveland State University

Piyushimita (Vonu) Thakuriah
PhD, University of Illinois at Chicago

Nik Theodore
PhD, University of Illinois at Chicago

Rachel Weber
PhD, Cornell University

Wim Wiewel
PhD, University of Amsterdam and
Northwestern University (Emeritus)

Curtis Winkle
PhD, Rutgers University

Maira Zellner
PhD, University of Michigan

Ting Wei Zhang
PhD, University of Illinois at Chicago

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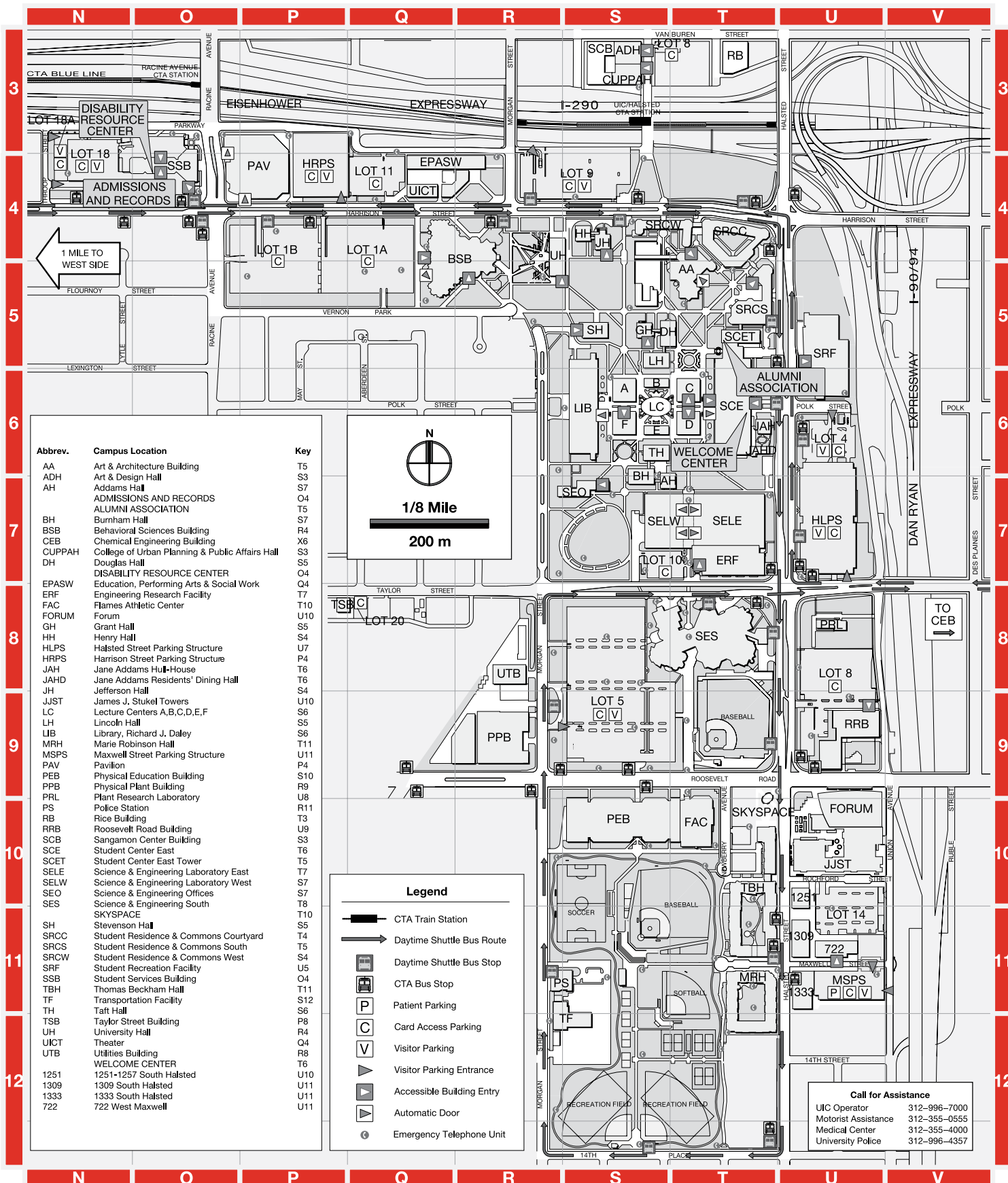
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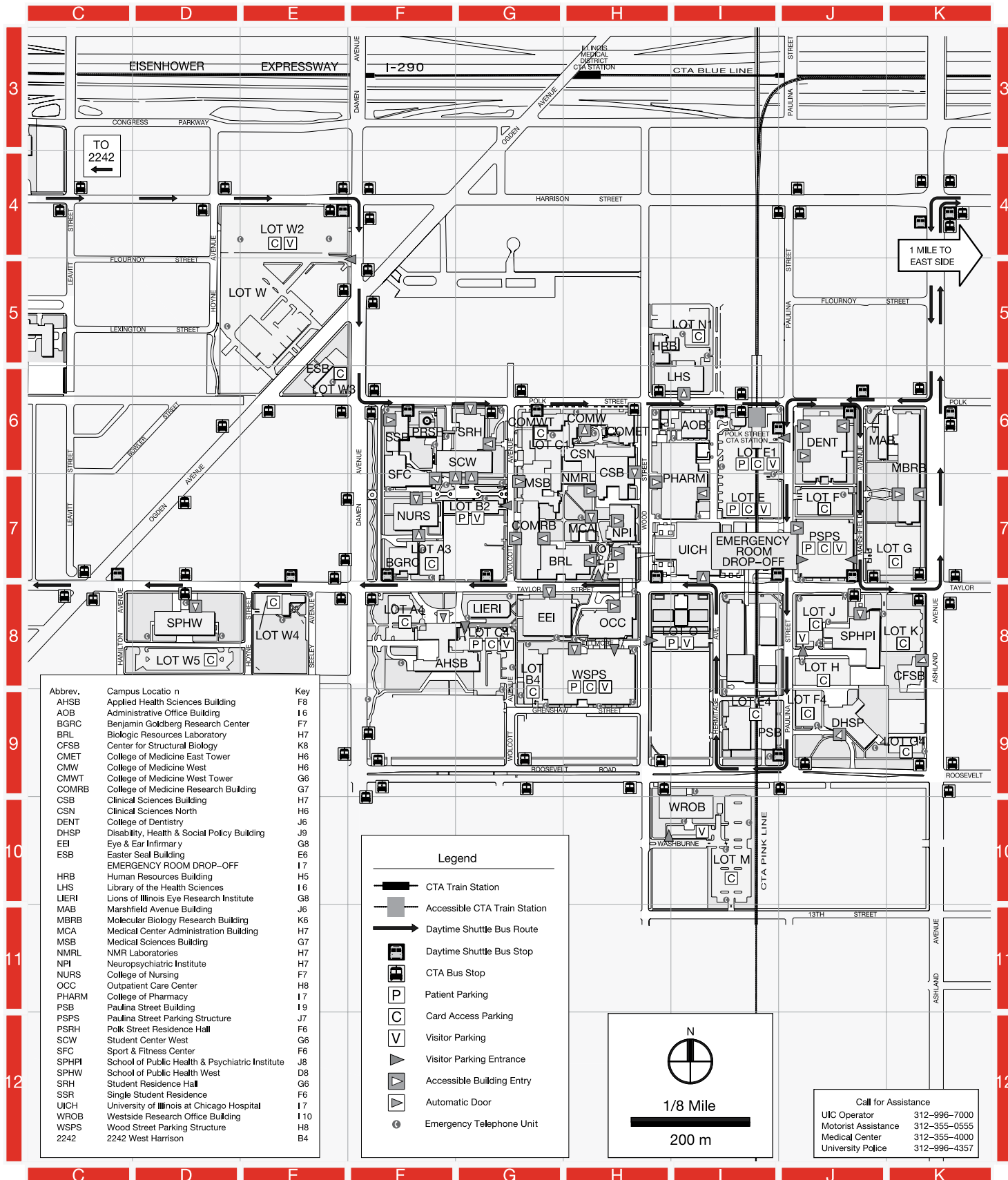
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EAST SIDE



WEST SIDE



Travel Directions and Visitor Parking

Public Transportation

RTA

The Regional Transportation Authority (RTA) is a special service unit of local government that operates public transportation systems for the six counties of northeastern Illinois—Cook, DuPage, Kane, Lake, McHenry, and Will. The RTA system includes the Chicago Transit Authority (CTA), which provides bus and rapid transit service within the city of Chicago and to 38 suburban municipalities; Metra, the commuter rail division, which provides commuter rail service connecting downtown Chicago with 68 Chicago locations and 100 suburban communities; and Pace, the suburban bus division, which provides fixed-route bus, paratransit, and vanpool services to approximately 200 communities throughout the suburbs and from suburban locations to the city of Chicago.

The RTA Travel Information Center is open from 5:00 a.m. to 1:00 a.m. daily. For transit information or to order maps or timetables, call 836-7000 from any northeastern Illinois area code (312, 630, 708, 773, 815, or 847), or visit their Web site <http://www.rtachicago.com>.

CTA

The UIC campus is served by the CTA's Blue Line (O'Hare/Forest Park and 54/Cermak branches) rapid transit trains and several bus routes. West-side train service includes stops at the handicapped-accessible 54/Cermak train Polk Street station and the O'Hare/Forest Park train Medical Center station. East-side train service includes both O'Hare/Forest Park and 54/Cermak stops at Racine and UIC/Halsted stations. Connections to all other CTA rail lines can be made in the Chicago Loop. For information on CTA service, call (888) YOUR-CTA or (888) 968-7282, or visit their Web site <http://www.transitchicago.com>.

Metra

Metra's system of 12 lines serves 230 stations in the six-county area and connects with Pace and CTA buses and trains. For information on Metra service, call the RTA Travel Information Center at 836-7000 from any northeastern Illinois area code (312, 630, 708, 773, 815, or 847), or visit their Web site <http://www.metrarail.com>.

UIC provides commuter bus service between the Ogilvie Transportation Center, Chicago Union Station, and the UIC campus. Commuter bus tickets are sold in books of 25 by the cashiers in Student Center East and the Marshfield Building, and at the Campus Information Center in the Student Center West.

From the Ogilvie Transportation Center and Union Station, commuters may also use CTA bus No. 60 (Blue Island-26th Street) to reach the UIC campus. From the LaSalle Street Station and the Randolph Street Station, Metra commuters may take a westbound Blue Line (Congress/Douglas A or B) train to one of the campus stops.

Pace

For information on Pace service, call the RTA Travel Information Center at 836-7000 from any northeastern Illinois area code (312, 630, 708, 773, 815, or 847), or visit their Web site <http://www.pacebus.com>.

By Car

From the North

Take the Kennedy Expressway (I-90/94) eastbound to the Eisenhower Expressway (I-290) westbound.

East side: Keep to the right, exit immediately at Morgan Street, south to the campus.

West side: Exit at Ashland Avenue, south to Taylor Street, west to the campus.

From the South

Take the Dan Ryan Expressway (I-90/94) westbound to Roosevelt Road.

East side: West on Roosevelt Road to Halsted Street.

West side: West on Roosevelt Road to Ashland Avenue, north to Taylor Street, west to the campus.

From the East

Take Harrison Street or Roosevelt Road west.

East side: West on Harrison Street or Roosevelt Road to Halsted Street.

West side: West on Harrison Street to Ashland Avenue, south to Taylor Street, west to the campus. Or west on Roosevelt Road to Ashland Avenue, north to Taylor Street, west to the campus.

From the West

Take the Eisenhower Expressway (I-290) eastbound.

East side: Exit at Racine Avenue, south to the campus.

West side: Exit at Ashland Avenue, south to Taylor Street, west to the campus.

Visitor Parking

Visitors to the University may park in one of the following cash lots.

East Side

Lot 4: Garage on Halsted with entrances on Polk and Taylor streets.

Lot 5C: Parking lot on Morgan Street near Roosevelt Road.

Harrison Street Parking Structure: Garage between Morgan Street and Racine Avenue with the visitor's entrance on Harrison.

Lot 9: Parking lot on the northeast corner of Morgan and Harrison streets with the entrance on Morgan 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.