



University of Illinois at Chicago

# Undergraduate Catalog

2003 – 2005

**Office of the Provost and Vice Chancellor for Academic Affairs(MC 105)  
The University of Illinois at Chicago  
601 S. Morgan Street  
Chicago, Illinois 60607-7128  
Information: (312) 996-3000**

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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.

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

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

This publication is a record of the 2003-2005 academic years. It is for informational purposes only and does not constitute a contract. The information was current at the time of publication. Faculty assignments and programs listed are subject to change, and individual departments and units should be consulted for further information. Courses listed in this publication are subject to revision without advance notice. Courses are not necessarily offered each term or each year. Individual departments or units should be consulted for information regarding regularity of course offerings. For the catalog on the web, see <http://www.uic.edu/ucal/catalog/>.

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# Academic Calendar 2003–2005

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The academic year at the University of Illinois at Chicago consists of the fall and spring semesters and an eight-week summer session. Each of the regular semesters includes fifteen weeks of instruction and one week of final examinations. A grading period occurs at the end of each term.

## Fall Semester 2003

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August 25, M	Instruction begins.
September 1, M	Labor Day holiday. No classes.
September 5, F	Last day to complete late registration and last day to add a course(s).
October 3, F	Last day to drop a course(s) offered by all colleges.
November 27–28, Th–F	Thanksgiving holiday. No classes.
December 5, F	Instruction ends.
December 8, M	Reading day. No examinations.
December 9–12, T–F	Final examinations.

## Spring Semester 2004

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January 12, M	Instruction begins.
January 19, M	Martin Luther King, Jr., Day. No classes.
January 23, F	Last day to complete late registration and last day to add a course(s).
February 20, F	Last day to drop a course(s) offered by all colleges.
March 22–26, M–F	Spring vacation. No classes.
April 30, F	Instruction ends.
May 3, M	Reading day. No examinations.
May 4–7, T–F	Final examinations.
May 9, Su	Commencement.

## Summer Session 2004

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May 31, M	Memorial Day holiday. No classes.
June 1, Tu	Instruction begins.
June 4, F	Last day to complete late registration and last day to add a course(s).
July 2, F	Last day to drop a course(s) offered by all colleges.
July 21, W	Instruction ends.
July 22–23, Th–F	Final examinations.
July 24, Sa	Summer Session ends.

## Fall Semester 2004

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August 23, M	Instruction begins.
September 3, F	Last day to complete late registration and last day to add a course(s).
September 6, M	Labor Day holiday. No classes.
October 1, F	Last day to drop a course(s) offered by all colleges.
November 25–26, Th–F	Thanksgiving holiday. No classes.
December 3, F	Instruction ends.
December 6, M	Reading day. No examinations.
December 7–10, Tu–F	Final examinations.

## Spring Semester 2005

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January 10, M	Instruction begins.
January 17, M	Martin Luther King, Jr., Day. No classes.
January 21, F	Last day to complete late registration and last day to add a course(s).
February 18, F	Last day to drop a course(s) offered by all colleges.
March 21–25, M–F	Spring vacation. No classes.
April 29, F	Instruction ends.
May 2, M	Reading day. No examinations.
May 3–6, Tu–F	Final examinations.
May 8, Su	Commencement.

## Summer Session 2005

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May 30, M	Memorial Day holiday. No classes.
May 31, Tu	Instruction begins.
June 3, F	Last day to complete late registration and last day to add a course(s).
July 1, F	Last day to drop a course(s) offered by all colleges.
July 4, M	Independence Day holiday. No classes.
July 20, W	Instruction ends.
July 21–22, Th–F	Final examinations.

# Board of Trustees and Administrative Officers

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## Board of Trustees of the University of Illinois

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## Administrative Officers

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**Dean of Student Affairs** — Linda Deanna

**Executive Director, Office of Admissions and Records** — Vacant

# Rubrics

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The following is an alphabetical list of course rubrics used for undergraduate courses. Please note that not all course rubrics currently list courses in this catalog.

<b>AAS</b> — African-American Studies	<b>IDS</b> — Information and Decision Sciences
<b>Actg</b> — Accounting	<b>IE</b> — Industrial Engineering
<b>AD</b> — Art and Design	<b>ISA</b> — Interdisciplinary Studies in the Arts
<b>AH</b> — Art History	<b>Ital</b> — Italian
<b>AHS</b> — Associated Health Sciences	<b>Jpn</b> — Japanese
<b>Anat</b> — Anatomy and Cell Biology	<b>JSt</b> — Jewish Studies
<b>Anth</b> — Anthropology	<b>Kine</b> — Kinesiology
<b>Arab</b> — Arabic	<b>LALS</b> — Latin American and Latino Studies
<b>Arch</b> — Architecture	<b>LAS</b> — Liberal Arts and Sciences
<b>ArSt</b> — Archaeological Studies	<b>Lat</b> — Latin
<b>ASP</b> — Academic Skills Program	<b>Ling</b> — Linguistics
<b>AsSt</b> — Asian Studies	<b>Lith</b> — Lithuanian
<b>BA</b> — Business Administration	<b>Math</b> — Mathematics
<b>Bche</b> — Biochemistry	<b>MCS</b> — Mathematical Computer Science
<b>BHIS</b> — Biomedical and Health Information Sciences	<b>ME</b> — Mechanical Engineering
<b>Bioe</b> — Bioengineering	<b>Mgmt</b> — Management
<b>BioS</b> — Biological Sciences	<b>MiLS</b> — Military Science
<b>BPS</b> — Biopharmaceutical Sciences	<b>MIm</b> — Microbiology and Immunology
<b>CEMM</b> — Civil Engineering, Mechanics, and Metallurgy	<b>Mktg</b> — Marketing
<b>ChE</b> — Chemical Engineering	<b>MLS</b> — Medical Laboratory Sciences
<b>Chem</b> — Chemistry	<b>MthT</b> — Mathematics Teaching
<b>Chin</b> — Chinese	<b>Mus</b> — Music
<b>CHSc</b> — Community Health Sciences	<b>NASt</b> — Native American Studies
<b>CIE</b> — Curriculum, Instruction, and Evaluation	<b>NatS</b> — Natural Sciences
<b>CI</b> — Classics	<b>NS</b> — Naval Science
<b>Comm</b> — Communication	<b>NuMC</b> — Maternal-Child Nursing
<b>CrJ</b> — Criminal Justice	<b>NuMS</b> — Medical-Surgical Nursing
<b>CS</b> — Computer Science	<b>NuPH</b> — Public Health Nursing
<b>CSt</b> — Catholic Studies	<b>NuPs</b> — Psychiatric Nursing
<b>DHD</b> — Disability and Human Development	<b>NuSc</b> — Nursing Sciences
<b>Dnce</b> — Dance	<b>OT</b> — Occupational Therapy
<b>EaES</b> — Earth and Environmental Sciences	<b>Phar</b> — Pharmacy
<b>ECE</b> — Electrical and Computer Engineering	<b>Phil</b> — Philosophy
<b>Econ</b> — Economics	<b>PhyB</b> — Physiology and Biophysics
<b>Ed</b> — Education	<b>Phys</b> — Physics
<b>Engl</b> — English	<b>PmAd</b> — Pharmacy Administration
<b>Engr</b> — Engineering	<b>PmMP</b> — Medicinal Chemistry and Pharmacognosy
<b>EPsy</b> — Educational Psychology	<b>PmPr</b> — Pharmacy Practice
<b>ESL</b> — English as a Second Language	<b>Pol</b> — Polish
<b>Fin</b> — Finance	<b>PolS</b> — Political Science
<b>Fr</b> — French	<b>Port</b> — Portuguese
<b>GAMD</b> — Guaranteed Admissions Medicine	<b>PS</b> — Policy Studies
<b>Geog</b> — Geography	<b>Psch</b> — Psychology
<b>Ger</b> — Germanic Studies	<b>ReIS</b> — Religious Studies
<b>GkA</b> — Greek, Ancient	<b>Russ</b> — Russian
<b>GkM</b> — Greek, Modern	<b>Slav</b> — Slavic
<b>GWS</b> — Gender and Women's Studies	<b>Soc</b> — Sociology
<b>Heb</b> — Hebrew	<b>SocS</b> — Social Sciences
<b>HIM</b> — Health Information Management	<b>SocW</b> — Social Work
<b>Hist</b> — History	<b>Span</b> — Spanish
<b>HN</b> — Human Nutrition	<b>SpEd</b> — Special Education
<b>HnUr</b> — Hindi-Urdu	<b>Stat</b> — Statistics
<b>Hon</b> — Honors College	<b>Thtr</b> — Theatre
<b>Hum</b> — Humanities	<b>UPP</b> — Urban Planning and Policy

# The University

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## Scope and Mission

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The University of Illinois at Chicago (UIC) is a comprehensive public university located in the heart of one of the nation's largest metropolitan areas. It is one of three campuses of the state of Illinois' land-grant university, the University of Illinois. Its mission comprises three traditional elements—teaching, research, and public service, each shaped by and relevant to its metropolitan setting as well as the University of Illinois' traditional pursuit of excellence. UIC serves not only the citizens of the state of Illinois but also students from throughout the nation and the world who are attracted by both the University's programs and the metropolitan setting on which it draws and to which it contributes.

UIC seeks to provide its undergraduates with an education which is both broad and deep so as to prepare them for responsible citizenship, and to open intellectual and career opportunities which will challenge their abilities. In doing so, UIC takes special account and advantage of the extraordinary ethnic and cultural diversity of the Chicago metropolitan area, which encompasses two-thirds of the population of Illinois and from which it presently draws most of its undergraduate students. For the growing proportion of its students who are enrolled in graduate and professional programs, both in Chicago and at its regional sites, UIC offers an education that will prepare them to render skilled professional service and to assume positions of intellectual leadership in their disciplines and professions.

In research and scholarship, the mission of UIC is to seek new knowledge and understanding at the frontiers of learning. Both fundamental and applied studies are pursued, often in partnership with the region's business, cultural, health, and service institutions. The academic community thus serves as the focal point for investigation of the challenges and problems facing the region, the state, and society at large, both today and in the future.

UIC's public service activities include the provision of direct services which span the full range of the campus' programs and disciplines. The clinical services provided by UIC's hospital and clinics, and the active participation of faculty in a multitude of projects through UIC's many and diverse research centers, help advance the efficiency and quality of life in the region. Members of the faculty and staff also directly serve on boards, commissions, and advisory committees in communities throughout the metropolitan region, the nation, and the world.

Through its education, research, and public service, UIC strives to accomplish the land-grant mission originally envisioned for the University of Illinois in the more agrarian environment of the nineteenth century. Located in the great metropolis that is both the transportation hub of this country and the architectural capital of the world, UIC adapts that mission to the challenges of the present and the future.

## History and Overview

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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 13 academic colleges and professional schools, the University offers 87 undergraduate, 88 master's, and 58 doctoral programs in architecture, art, applied health sciences, business administration, dentistry, education, engineering, humanities, kinesiology, mathematics, medicine, 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 over 8,000 graduate and professional students.

Academic support services include eight 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

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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 professionals. 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. 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 John D. and Catherine T. MacArthur Foundation, the National Academy of Science, the National Endowment for the Humanities, the National Institutes of



Health, the National Science Foundation, the Sloan Foundation, 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 100 institutions in the nation for expenditures in research and development. UIC is among a select group of 100 institutions to be classified in the Doctoral/Research Universities - Extensive category by the Carnegie Foundation.

## The Student Body

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The nearly 26,000 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 more than 16,000 undergraduate students, 56 percent are female and 44 percent are male. Minority enrollments comprise 50 percent of the total 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. Although primarily a commuter campus, UIC has housing facilities on both the east and west sides of campus that accommodate approximately 2,500 students.

Admission to the University of Illinois at Chicago is competitive. The median ACT composite score for entering freshmen is 23.

## The Campus

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The University of Illinois at Chicago is comprised of 113 contemporary and traditional buildings situated on a 240-acre campus approximately one mile from Chicago's Loop. The University offers its students a learning environment of modern classrooms, lecture centers, laboratories, libraries, and physical education and sports facilities. Students have access to two of the largest student unions in the country, as well as the sports and entertainment UIC Pavilion.

The University has begun construction on the new South Campus development project located on 58 acres immediately south of Roosevelt Road. This area will include comprehensive infrastructure improvements; apartment style housing for 800 UIC students; 850 units of residential housing (townhouses, condominiums, lofts), including a substantial number of affordable units; parking, retail, and office space; and an academic campus to accommodate future academic facilities.

Situated just west of Chicago's Loop, the University is readily accessible to students commuting from residential neighborhoods or from business locations.

## Accreditation

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The University of Illinois at Chicago is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools (NCA), 30 N. LaSalle St., Suite 2400, Chicago, Illinois 60602-2504, (312) 263-0456. The NCA is recognized by the Commission on Recognition of Postsecondary Accreditation. 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 2006-07. Verification of accreditation status is available in the Office of the Chancellor (M/C 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 catalogue 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 Art Education, Studio Arts, Graphic Design, Industrial Design, and Photography/Film/Electronic Media)

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

**Business** (BS programs in Accounting, Economics, Finance, and Decision Sciences, Management, and Marketing)

AACSB International - The Association to Advance Collegiate Schools of Business  
600 Emerson Road, Suite 300  
St. Louis, Missouri 63141-6762  
(314) 872-8481

**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

**Health Information Management** (BS in Health Information Management)

Commission on Accreditation of Allied Health Education Programs (CAAHEP)  
35 E. Wacker Drive  
Chicago, Illinois 60601  
(312) 553-9355

American Health Information Management Association (AHIMA)  
233 N. Michigan Avenue, Suite 2150  
Chicago, Illinois 60601  
(312) 233-1100

**Human Nutrition** (BS in Human Nutrition)

Commission on Accreditation/Approval for Dietetics Education  
(CAADE)  
American Dietetic Association  
216 W. Jackson Boulevard  
Chicago, Illinois 60606-6995  
(312) 899-0040, Ext. 5400

**Medical Laboratory Sciences** (BS in Medical Laboratory Sciences)

National Accrediting Agency for Clinical Laboratory Sciences  
(NAACLS)  
8410 W. Bryn Mawr Avenue, Suite 670  
Chicago, Illinois 60631-3414  
(773) 714-8880

**Nursing** (BS in Nursing)

Commission on Collegiate Nursing Education (CCNE)  
One Dupont Circle NW, Suite 530  
Washington D.C 20036  
(202) 887-6791

**Pharmacy** (Doctor of Pharmacy)

American Council on Pharmaceutical Education (ACPE)  
311 W. Superior Street  
Chicago, Illinois 60610  
(312) 664-3575

**Social Work** (Bachelor of Social Work)

Council on Social Work Education  
1600 Duke Street, Suite 300  
Alexandria, Virginia 22314-3421  
(703) 683-8080

# Undergraduate Curricula

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Undergraduate degree programs are offered through eight undergraduate colleges at the University of Illinois at Chicago: Applied Health Sciences; Architecture and the Arts; Business Administration; Education; Engineering; Liberal Arts and Sciences; Nursing; and Social Work. These colleges offer nearly 90 programs of study leading to the baccalaureate degree, which usually requires four years of full-time study to complete. In addition, the Colleges of Dentistry and Pharmacy will consider applications from undergraduate students who have successfully completed the appropriate preprofessional course work. The programs lead directly to the Doctor of Dental Surgery and the Doctor of Pharmacy.

The College of Liberal Arts and Sciences offers preprofessional study in the following areas: dentistry, elementary education, engineering, health information management, human nutrition, law, medical laboratory sciences, medicine, nursing, occupational therapy, pharmacy, physical therapy, social work, and veterinary medicine.

The College of Architecture and the Arts, College of Education, and College of Liberal Arts and Sciences offer teacher education curricula.

Because of enrollment pressures on certain colleges and schools, most notably the School of Architecture and the Colleges of Business Administration and Engineering, it is recommended that applicants submit their applications and supporting credentials as early as possible in their senior year of high school.

## College of Applied Health Sciences

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**Health Information Management**  
**Human Nutrition**  
**Kinesiology**  
**Medical Laboratory Sciences**<sup>1</sup>

## College of Architecture and the Arts

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**Architectural Studies**  
**Art Education**  
**Art History**  
**Graphic Design**  
**Industrial Design**  
**Music**  
**Performance**  
**Photography/Film/Electronic Media**  
**Studio Arts**  
*(with options in painting and sculpture)*  
**Theatre**

## College of Business Administration

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**Accounting**  
**Economics**  
**Finance**  
**Information and Decision Sciences**  
**Management**  
**Marketing**

## College of Education

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### Elementary Education

*Curricula preparatory to teaching in secondary schools are offered by the College of Architecture and the Arts and the College of Liberal Arts and Sciences.*

## College of Engineering

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### Bioengineering

### Chemical Engineering

### Civil Engineering

### Computer Engineering

### Computer Science

*(with an option in computer systems)*

### Electrical Engineering

### Engineering Management

*Engineering Management offered jointly with the College of Business Administration.*

### Engineering Physics

*Engineering Physics offered jointly with the College of Liberal Arts and Sciences.*

### Industrial Engineering

### Mechanical Engineering

## College of Liberal Arts and Sciences

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### African-American Studies

### Anthropology

### Art History

### Biological Sciences

### Chemistry

### Classical Civilization

### Classical Languages and Literatures

### Communication

### Criminal Justice

### Earth and Environmental Sciences

### Economics

### English

### French

### Germanic Studies

### History

### Italian

### Latin American and Latino Studies

### Mathematics

### Philosophy

### Physics

### Polish

### Political Science

### Psychology

### Russian

### Sociology

### Spanish

## SPECIALIZED CURRICULA

### Biochemistry

### Chemistry

### French Business Studies

### Mathematics and Computer Science

### Physics

### Spanish-Economics

### Statistics and Operations Research

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1. Until further notice, no new students will be admitted to the Medical Laboratory Sciences Program.

## **TEACHER EDUCATION CURRICULA FOR SECONDARY SCHOOLS**

**Biological Sciences**  
**Chemistry**  
**English**  
**French**  
**German**  
**History**  
**Mathematics**  
**Physics**  
**Spanish**

## **PREPROFESSIONAL PROGRAMS**

**Pre-Dentistry**  
**Pre-Elementary Education**  
**Pre-Engineering**  
**Pre-Health Information Management**  
**Pre-Human Nutrition**  
**Pre-Law**  
**Pre-Medical Laboratory Sciences<sup>1</sup>**  
**Pre-Medicine**  
**Pre-Nursing**  
**Pre-Occupational Therapy**  
**Pre-Pharmacy**  
**Pre-Physical Therapy**  
**Pre-Social Work**  
**Pre-Veterinary Medicine**

<sup>1</sup> Until further notice, no new students will be admitted to the Medical Laboratory Sciences Program.

## **College of Nursing**

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**Nursing**

## **College of Pharmacy**

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**Pharmacy**

## **Jane Addams College of Social Work**

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**Social Work**

# Office of Admissions and Records

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## Mailing Address:

Office of Admissions and Records (M/C 018)  
Box 5220  
Chicago, Illinois 60680-5220

## Street Location:

Student Services Building  
1200 West Harrison Street  
Chicago, Illinois 60607-7161

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(312) 996-4350

## How to Use This Catalog

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This catalog provides general information about the University of Illinois at Chicago and detailed information about the programs of study offered by its eight undergraduate colleges.

This catalog has two major parts. The first part provides information about admission, special opportunities and programs, student services, student costs, financial aid, the grading system and academic regulations, graduation requirements, and honors. The second part has separate sections for each of the undergraduate colleges, which detail their curricula, special academic programs, specific requirements for graduation, honors programs, course descriptions, and other information.

To find specific information use the table of contents at the front of the catalog or the index at the back.

Additional information about the University is available by telephoning the campus at (312) 996-7000 or the Student Information Network Center at (312) 996-5000.

As a state-supported, comprehensive, Research I university, UIC seeks to provide higher education for those who will profit from an intellectually challenging program. The admission requirements are designed to identify those who possess the scholastic ability and the maturity needed to succeed in and to benefit from such a program. The policy of the University is to comply fully with applicable federal and state nondiscrimination and equal opportunity laws, orders, and regulations.

Since the information in this two-year catalog is subject to change, prospective applicants should contact the Office of Admissions and Records at the address above for admission requirements and application deadlines for specific terms. A listing of fields of study and their admission requirements is provided in prospective student information brochures available with application materials from the Office of Admissions and Records. Current Illinois high school and community college students may also obtain applications from their school counselors. Additional information is available on our website at [www.uic.edu](http://www.uic.edu).

## Visiting Campus

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UIC encourages prospective students to visit the campus. A preadmission information session is offered at 1:00 p.m. weekdays (excluding campus holidays) followed by an optional campus tour at 2:00 p.m. Preadmission counselors in the Office of Admissions are also available for consultation on weekdays, excluding campus holidays, from 9:00 a.m. to 4:00 p.m. Appointments are required. The Office of Admissions is also open for preadmission information sessions and tours on select Saturdays throughout the year. Because space at these Saturday programs is limited, reservations are required.

Students interested in visiting the campus should call in advance (312) 996-4350 to schedule a visit. Refer to the *Campus Map and Travel Directions* at the back of this catalog for instructions on how

to reach the UIC campus or visit the UIC website at [www.uic.edu](http://www.uic.edu) for more information.

UIC Preview Days for prospective students are scheduled several mornings each semester. These events include a tour of campus and a residence hall, general information about campus housing, financial aid, etc., and sessions with academic advisers from each of UIC's undergraduate programs. Call (312) 996-4350 for dates and reservations.

## Admission Requirements and Application Procedures

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All students who wish to take courses for credit at UIC, whether as degree or nondegree candidates, must submit an application, supporting documents, and the required nonrefundable application fee within specified deadlines. (For information about registration as a visitor/auditor, see *Visitors/Auditors* under *Special Enrollment Categories*.) After an application has been submitted, any changes to the application must be submitted to the Office of Admissions in writing.

### English 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 on the Test of English as a Foreign Language (TOEFL), which is administered by the Educational Testing Service, Box 899, Princeton, New Jersey 08540. Higher scores are required for most programs and colleges. This requirement may be waived by the 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

The number of admissions to each undergraduate program is monitored to ensure that no more students are enrolled than the faculty and facilities can support. If programs begin to fill, it may be necessary to limit admission to more highly qualified students or to students who have submitted earlier applications.

Students are strongly encouraged to apply within the filing period in the chart following. While applications submitted



before the filing period will be accepted, processing for the term will begin at the start of the filing period. A rolling admissions system is followed for most programs with decisions mailed to students as their applications are processed. While a final application deadline is established for each term (and is listed in the application packet), students who apply close to the final deadline may find programs filled and, if admitted, may have difficulty scheduling classes.

Most upper division and health sciences programs have special deadline dates that may be earlier than those on the chart. Refer to the application packet or the Office of Admissions for current dates.

<b>Filing Period for Applications and Credentials</b>		
<i>Term in which applicant wishes to enter</i>	<i>International Applicants Filing Period</i>	<i>Domestic/Immigrant Applicants Filing Period</i>
<b>Spring</b>	May 1–July 15	July 1–October 15*
<b>Summer</b>	November 1–January 15	February 1–April 15*
<b>Fall</b>	October 1–March 15	September 1–February 28*
* 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 completed fewer than 36 semester or 54 quarter hours of transferable college classroom credit at the time of application. High school midyear graduates planning to attend another collegiate institution before admission to UIC for the fall term should apply as a beginning freshman during their last fall term in high school. Such applicants are admitted primarily on the basis of high school credentials and admission test score.

<b>High School Course Patterns Required for Beginning Freshmen<sup>a</sup></b>		
<b>Architecture and the Arts</b>	Architectural Studies	Pattern II
	Art and Design	Pattern I
	Art History	Pattern I
	Performing Arts	Pattern I
<b>Business Administration</b>	Pattern II	
<b>Engineering</b>	Pattern II	
<b>Kinesiology</b>	Pattern II	
<b>Liberal Arts and Sciences</b>	Exercise Physiology	Pattern II
	Arts and Humanities	Pattern I
	Math and Science (recommended)	Pattern II

<sup>a</sup>The subject pattern requirements are in compliance with Public Act 86-0954, which defines the minimum high school requirements for admission to public colleges and universities in the State of Illinois.

<sup>b</sup>GED scores do not satisfy these requirements. GED graduates should also submit transcripts for any high school studies completed.

Advanced Placement (AP) credit is granted to students who have successfully completed AP courses in high school and received a satisfactory test score. Credit is also available through the International Baccalaureate Program, ACT/SAT English/Verbal subscores, and the College Level Examination Program (CLEP). See *Credit Through Advanced Placement Program (AP)*, *Credit Through the International Baccalaureate Program (IB)*, *Credit Through ACT or SAT*, or *College Level Examination Program (CLEP) Credits* under *Alternative Sources of Credit* for specific information.

High school seniors who wish to enter the fall term immediately following their graduation from high school are encouraged to submit their applications as early as possible after September 1 of their senior year. By so doing, they have an opportunity to participate in advance enrollment during the summer months prior to the fall term. When ample space is available, action is taken on individual applications in the order in which they are completed. 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 complete application and application fee.

## 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. Graduates of unaccredited high

<b>High School Subject Patterns<sup>b</sup></b>		
SUBJECTS	PATTERN I	PATTERN II
<b>English<sup>c</sup></b>	4	4
<b>Algebra</b>	1	2
<b>Geometry</b>	1	1
<b>Trigonometry</b>	-	1/2
<b>Lab sciences</b> (not including general science)	2	2
<b>Social studies<sup>d</sup></b>	2	2
<b>Electives<sup>e</sup></b>	2	2
<b>Flexible Academic Units<sup>f</sup></b>	3	1 1/2
<b>Other</b>	1	1
<b>TOTAL</b>	16	16

<sup>c</sup>ESL courses that appear on high school transcripts will be accepted only if the high school identifies ESL courses as equivalent to standard high school English courses. Applicants whose ESL courses are not considered by their high schools to be equivalent to standard English courses will have their applications reviewed by the college of their choice provided they present the minimum acceptable test score and class rank.

<sup>d</sup>One unit must be American History plus one unit of history, government, psychology, economics, or geography.

<sup>e</sup>Foreign language, music, vocational education, and/or art. Four years of one foreign language in high school is recommended for Liberal Arts and Sciences; two years for Business, Architectural Studies, Art History, and Music.

<sup>f</sup>Additional English, math, laboratory science, social studies, foreign language, music and/or art.

schools must submit passing GED scores. Official transcripts must be sent directly to UIC from all high schools attended. Faxed or unofficial documents are not acceptable. If still in school, courses in progress should be listed.

3. Complete the American College Test (ACT). The College Board SAT I: Reasoning Test is also acceptable. If the test is taken more than once, the higher score will be used.
4. Present a satisfactory combination of class rank and test score.
5. Satisfy the high school subject pattern requirements for the chosen UIC college as shown in the following chart. These subjects help ensure that the beginning freshman is best prepared to enroll in required courses. Students who do not meet these course pattern requirements but meet all other requirements will have their applications reviewed.

A unit represents one academic year of high school work that consists of 120 sixty-minute periods in the classroom. Two hours of work requiring little or no preparation outside the classroom are considered as having the same value as one hour of prepared classroom work. Fractional credits of less than one-half unit are not accepted.

Credit for work completed prior to the ninth grade is accepted by the University if it appears on the transcript of an accredited high school. Such credit usually applies to elementary algebra and foreign languages; however, it may apply to any subject. Home schooled students must satisfy all the above requirements. A home school 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.

### General Educational Development Tests

A person who has successfully completed the General Educational Development (GED) Tests may apply for admission. These high school level tests cover the following subjects: English, general mathematics, social studies, and natural science. Successful completion of these tests satisfies the following admission requirements:

1. Sixteen high school units, including four units of English.  
Please see the admission requirements table above for the specific subject pattern requirements for each college. Only the English requirement can be satisfied by GED scores.
2. High school graduation.

The GED tests may be taken by persons in these categories:

1. Persons 19 years or older who have not graduated from high school.
2. Persons regardless of age who have not graduated from high school, whose high school class has been graduated for over one year, and who have written approval of the director of the Office of Admissions.

Applicants submitting GED scores must also submit official high school transcripts and ACT scores. UIC does not grant college credit through the GED college-level examinations.

### Transfer Applicant

A transfer applicant is one who (1) has completed a minimum of 36 semester or 54 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.

### Illinois Articulation Initiative

The University of Illinois at Chicago is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement which allows for the transfer of the IAI-approved General Education Core Curriculum between participating institutions. This initiative went into effect for students entering (first time) institutions of higher education in Illinois (participating in the Initiative) during or after summer session 1998. Completion of the core curriculum at any accredited participating college or university in Illinois will satisfy the minimum all-university UIC lower-division general education requirements in the areas of written English composition, humanities, natural sciences including mathematics, and social sciences. However, beyond these all-university lower-division requirements, students planning to transfer to UIC will be required to fulfill upper-division or mission-related general education requirements or program-related course prerequisites of the University and/or its various colleges, or requirements related to criteria established by various accreditation agencies. UIC also participates in the IAI majors programs that correspond to degree programs offered at UIC.

Students who plan to transfer to UIC are strongly advised to contact their academic advisers or consult the *UIC Transfer Guides* about general education and specific program requirements.

Acceptance of transfer courses that do not appear on the approved IAI General Education Core Curriculum course list is at the discretion of the University and the college to which the student applies.

Students can obtain additional information about the Illinois Articulation Initiative at <http://www.itransfer.org>.

### Acceptance of Traditional Transfer Credit

- I. 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.
- II. Transfer credit, as defined above, will be accepted at full value for admission purposes on transfer to the University if earned in:
  - 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.
- III. Certain colleges and universities do not meet the specifications in II 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 I 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<sup>1</sup> college or university, at least a 2.00 (A=4.00) or 3.00 (A=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.

- IV. Credit, as specified in I above, transferred from an approved<sup>1</sup> community or junior college is limited only by the provision that the student must earn at least 60 semester or 90 quarter hours required for the degree at the University or at any other approved<sup>1</sup> four-year college or university after attaining junior standing, except that the student must meet the residence requirements that apply to all students for a degree from the University (see *Graduation Requirements and Academic Regulations*). When a school or college within the University requires three years of preprofessional college credit for admission, at least the last 30 semester or 45 quarter hours must be taken in an approved<sup>1</sup> four-year collegiate institution.
- V. In all cases, the precise amount of transfer credit applicable toward a particular degree will be determined by the University college and department concerned.

### Transfer Student Admission Requirements

- 1. To be admitted, a transfer applicant must have achieved a minimum transfer grade point average of 2.00 (A=4.00) or 3.00 (A = 5.00) on the basis of all transferable work attempted (minimum: 36 semester or 54 quarter hours). See *Grading and Grade Point Systems*. Most colleges and curricula require a higher minimum grade point average and additional credit hours (consult individual college and curriculum listings).
- 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 student transferring to the University who was previously dropped from a collegiate institution for disciplinary or academic reasons must submit a petition to the director of the Office of Admissions, who will forward the petition to the appropriate committee.
- 4. When a course is repeated the grade point average is computed using both grades and all hours for the course. However, credit for the course is only awarded once.
- 5. Incomplete grades more than one year old are considered as failing grades in computing the grade point average.
- 6. Only course work that is similar in nature, content, and level to that offered by UIC is acceptable.
- 7. Technical, vocational, developmental, and remedial course work generally is not transferable.
- 8. Courses from other postsecondary institutions must have been completed at the appropriate level to be transferable.

- 9. Credit for nontraditional experiential prior learning is not transferable.

Applicants enrolled in another college at the time they plan to apply to UIC should not wait until completing the final term to apply. These applicants 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.

### Intercampus Transfer Applicant

Undergraduate intercampus transfers between 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 within 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. Intercampus transfers must submit regular application forms and credentials within the term deadlines.

*Note: "Immediately succeeding semester" above 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.*

### Intercampus Enrollment Program

Under the Intercampus Enrollment Program, undergraduate, upper division students from any of the three University of Illinois campuses may enroll at one of the other campuses for up to two semesters. International students are not eligible for this program because of visa restrictions.

The Intercampus Enrollment Program is intended to allow undergraduate students at one campus of the University the opportunity to take advantage of academic opportunities unique at another campus without having to transfer. This program does not replace the Concurrent Enrollment Program (enrollment at two different University campuses at the same time) or the Intercampus Transfer Program.

For further information and details about eligibility criteria and application procedures, students should go to the UIC Office of Records and Registration in the Student Services Building, 1200 West Harrison Street.

### Readmission Applicant

Readmission applicants are former students at UIC who were registered as degree-seeking undergraduates. 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*.

Students must clear any encumbrances before they may register for classes.

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1. Colleges and universities that meet one or more of the specifications listed in II above.



Former UIC students who left the University on academic drop 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 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 (A=4.00) or 3.00 (A=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 dropped for disciplinary reasons must submit a petition to the 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 by calling (312) 996-4350.

Nondegree students are not eligible for most financial aid. International students may sometimes be admitted as nondegree students depending on the type of visa they hold. Priority in admission and registration is given to degree students.

### Summer Session Only Applicant

A student who wishes to take courses at UIC *during the summer only* and who does not intend to continue at UIC in the fall will 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 by calling (312) 996-9099 or (800) 625-2013 for those outside of the Chicago area. They must also provide appropriate credentials as follows:

- Students already enrolled in an undergraduate degree program elsewhere (transfer applicants) must supply UIC with either: a) a statement from the last college or university attended that the student is eligible to return to that institution either on clear or probationary status (Statement of Good Standing); or, b) an official transcript showing eligibility to return.
- Students who have not yet attended a college or university (beginning freshman applicants) need to provide either: a) a statement from the high school that the student has been graduated or will be by the first day of instruction; b) an official high school transcript showing graduation; or, c) passing scores from the General Educational Development Test.

Students attending UIC on Summer Session Only status who decide they would like to continue in the fall semester must complete a regular Undergraduate Application, provide required credentials, and meet relevant deadlines.

## International/Immigrant Applicant

An international applicant is a person who is a citizen or permanent resident alien 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 nonimmigrant alien students.

International students who need a visa must register as full-time degree students and are not eligible for financial aid.

Unless noted, all requirements below apply both to U. S. citizens and permanent resident immigrants who have completed their education outside the United States as well as to international applicants.

### Admission Requirements

Admission is competitive and preference is given to those applicants judged to have the best potential for academic success at UIC. The minimum requirements for admission are:

1. Satisfaction of University minimum requirements in terms of age, high school graduation, high school units, SAT I: Reasoning Test or the American College Test (ACT), and grade point average and credits earned.
2. Satisfaction of minimum requirements of the college and curriculum of choice in terms of high school subjects and any additional requirements prescribed for admission.
3. Satisfaction of the University requirement of competence in English.
4. Adequate financial resources (for international applicants only).
5. Verification of immigrant status (for immigrant applicants only).

### Academic Records

All credentials presented for admission or readmission 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. An international student applicant for admission must submit the following:

1. An application for undergraduate admission.
2. The nonrefundable international application processing fee in the form of a check or money order in U.S. dollars payable to the University of Illinois. The University is not responsible for cash sent through the mail.
3. Official records for at least the last four years of secondary school study and any postsecondary or university-level work completed or attempted. Records must be sent directly from the issuing institution to the UIC Office of Admissions and Records.

All records from other countries must list subjects taken, descriptions of subjects studied, length of school year, grades earned (with maximum and minimum grades obtainable), or examination results (including those passed or failed in each subject); and all diplomas and certificates awarded. An official

syllabus, course catalog or detailed program description is required. *Official* translations must be attached to these records if they are in a language other than English. All credentials must be certified by an officer of the educational institution attended or by the U.S. embassy or consulate. Notarized copies of credentials do not fulfill official certification requirements.

International academic documents that are evaluated by a professional credential evaluation service that holds membership in the National Association of Credential Evaluation Services (NACES) are also acceptable for application processing purposes. If admission is granted, authentic or certified copies of the original academic documents in the original language and an English translation must be submitted to the Office of Admissions. While not required, foreign credential evaluations are accepted from the following:

*Educational Credential Evaluators*  
P.O. Box 514070  
Milwaukee, WI 53203-3470  
(414) 289-3400

*Josef Silny Associates*  
P.O. Box 248233  
Coral Gables, FL 33124  
(305) 666-0233

*World Education Services*  
P.O. Box 11623  
Chicago, IL 60611-01623  
(312) 222-0882

A list of all courses in progress, including recently completed course work that is not listed on the transcript, must also be included on the application. When possible, an applicant must have a school official provide a statement of the applicant's rank in class. This statement should indicate the applicant's performance relative to the performance of other members of the secondary or postsecondary school class. Applicants to some fields may be required to submit additional materials.

Students applying for admission after completing secondary school only must also submit scores on the College Board SAT I: Reasoning Test. Write to the Educational Testing Service, Box 899, Princeton, New Jersey 08540. Students in the United States should arrange to take the ACT examination by writing to the American College Testing Program (ACT), ACT Registration, Box 414, Iowa City, Iowa 52240.

### English Competency Requirements

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

If the international applicant is admissible, performance on the English placement test either (1) qualifies the student to register for English 160 and 161 or (2) indicates the need for additional study of noncredit courses in English. The results of the placement test determine whether the student is required to register for one or more zero credit courses in English. If so, the program of credit courses is reduced accordingly, and a longer time may be necessary for completion of degree requirements.

### 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 certified UIC Declaration and Certification of Finances or INS (U.S. Immigration and Naturalization Service) 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 (checking accounts are not acceptable). Applicants unable to provide satisfactory evidence of adequate finances will not be granted admission. There are no scholarships or other types of financial assistance available to international undergraduate students from the University of Illinois at Chicago. Student visas (F-1 and J-1) normally do not permit a student to work.

### Verification of Immigrant Status

Immigrant applicants (permanent residents, temporary residents, refugees-parolees, conditional entrants) must provide proof of immigration status by submitting a notarized Certification of Immigration Status form (available from the Office of Admissions) or a copy of both sides of their Alien Registration Receipt Card, Temporary Resident Card, or other document.

## Alternative Admission Programs

### Guaranteed Professional Program Admissions

The Guaranteed Professional Program Admissions (GPPA) is UIC's program for academically talented students.

Each fall, 300 motivated and highly qualified entering freshmen can be admitted to UIC with admission guaranteed, if undergraduate course and performance criteria are met, to one of the following professional or graduate programs:

- Applied Health Sciences
  - Biomedical Visualization
  - Health Information Management
  - Human Nutrition
  - Kinesiology
  - Medical Laboratory Sciences
  - Occupational Therapy
  - Physical Therapy
- Architecture
- Art and Design
  - Graphic Design
  - Industrial Design
- Business
- Dentistry
- Education
- Engineering
- Law<sup>1</sup>
- Medicine
- Nursing
- Pharmacy
- Public Health
- Social Work
- Urban Planning and Public Affairs
  - Public Administration
  - Urban Planning and Policy

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

With the security of GPPA, students will be able to focus on their undergraduate studies and have the opportunity to become well rounded and educated in many areas before pursuing their professional studies. In addition, they will have early and frequent contact with their professional school faculty and advisers to prepare them for their professional education.

GPPA students typically participate in UIC's Honors College along with other highly motivated and academically outstanding students. They enjoy intellectual challenges and camaraderie in special classes and activities.

Some professional colleges offer special seminars and events to acquaint students with their programs and faculty, and to provide them with courses necessary for entry into their chosen field.

Advisers in the Honors College and the students' professional college guide them through their undergraduate program of study, preparing them for their postbaccalaureate studies.

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.

GPPA undergraduate students are expected to meet course and performance criteria specified by the professional program which may include: specific courses, special seminars and other activities, grade point average, and time for completion of requirements. Some programs also require periodic reviews and interviews to monitor progress and certify continued membership in GPPA.

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; decisions will be announced in late March.

To request the GPPA application packet or for more information, 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 can meet University requirements may attend University classes for college credit in one or more of the three terms at UIC. To qualify as a talented student, seniors should be 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.

Ordinarily, such work taken at UIC should not be used to accelerate the high school work of a secondary school student but should be used as a means of broadening and enriching the student's educational program. These students are expected to complete all high school courses required for graduation. The courses taken at the University by superior high school seniors are over and above the regular secondary school curriculum.

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.

Students applying for admission to the Talented High School Senior Program should arrange for the following materials to

reach the UIC Honors College within the deadline periods established for regular admissions:

1. A completed UIC application for admission.
2. A recommendation from the high school principal specifically endorsing the superior student for admission to a particular course or courses during the time the student is continuing high school studies.
3. An official copy of the high school transcript covering all work thus far completed in high school, including a record of courses in progress (if applicable) and the most recent rank in class.
4. Test scores on the American College Testing Program (ACT). (SAT I: Reasoning Test is acceptable.)
5. The applicant's own statement of personal qualifications for undertaking college-level work and an indication of the specific course or courses in which enrollment is desired.

Each application is considered on an individual basis. High school seniors wishing to enroll in a course in mathematics, composition, foreign language, physics, and/or chemistry may be required to take a preliminary placement test after acceptance.

For application and information, inquiries should be made to the Honors College (M/C 204), The University of Illinois at Chicago, 828 South Halsted Street, Chicago, Illinois 60607-7031; (312) 413-2260.

## **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.

High test scores on ACT (at least 25 or 1120 on the SAT) as well as a superior high school record are prerequisites for admission to this program. Students should rank in the upper 10 percent of their high school class.

Each case is considered on an individual basis by the 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 (M/C 018), The University of Illinois at Chicago, Box 5220, Chicago, Illinois 60680-5220.

1. Application for admission 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. American College Test (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 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 Through ACT or SAT

A student whose American College Test (ACT) subscore in English is 29 or higher or whose verbal subscore on the SAT I: Reasoning Test is 640 or higher is awarded 3 hours of credit in English 160.

Those whose ACT subscore in English is 26 or higher, or whose verbal subscore on the SAT I: Reasoning Test is 580 or higher, may register for English 170 and 171 (Freshman Colloquium I and II). Completion of these two courses with a grade of "C" or higher results in a waiver of English 160 and 161.

### 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 credit 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.

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.

### General Educational Development Tests (GED)

No credit is allowed for the college-level GED tests.

### Correspondence Study

Correspondence 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 correspondence 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 correspondence courses.

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

Students, including those in high school, who wish to pursue correspondence study should write directly to Guided Individual

Study, University of Illinois at Urbana-Champaign, 302 East John Street, Suite 1406, Champaign, Illinois 61820 or call (217) 333-1321.

## Proficiency Examinations for Enrolled Students

Each term the University gives proficiency examinations, similar to regular term examinations, in courses ordinarily open to freshmen and sophomores. Proficiency examinations for English 160 and English 161 are scheduled regularly. 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. In other subjects the student must obtain the consent of the college dean as well as the head or chairperson of the department concerned. 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. 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 and 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 correspondence 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 residence requirement. See *Residence Requirements* under *Graduation Requirements and Academic Regulations*.

## College Level Examination Program (CLEP) Credits

The College Level Examination Program (CLEP), administered by the College Entrance Examination Board, is designed to award credit to students who demonstrate a high level of proficiency in college level work. It is the student's responsibility to have official score reports sent from the College Entrance Examination Board to the Office of Admissions and

request the Office of Admissions to evaluate their score reports for advanced standing before credit can be awarded. Credit earned through CLEP examinations neither applies toward nor interrupts the residence requirement. See *Residence Requirements* under *Graduation Requirements and Academic Regulations*.

### Students with CLEP Credit from Other Institutions

If credits have been awarded by other accredited institutions on the basis of CLEP examination test scores, equivalent credit will be granted by the University to those students who present on their transcript, exclusive of the CLEP credit, course work from that institution sufficient to qualify the student for transfer student status (36 semester or 54 quarter hours). Transfer credits based upon CLEP examinations placed upon the student's UIC transcript apply toward degree requirements only after review by the UIC college in which the student wishes to earn the degree. Students enrolling at UIC without transfer student status may forward CLEP examination scores to the Office of Admissions for possible credit in terms of the published cut-off scores.

### Credit Through CLEP for Current UIC Students

Students may earn proficiency credit at UIC by achieving satisfactory scores on those examinations regularly administered by the Office of Testing Services. A maximum of 30 semester hours of credit on the basis of CLEP examination scores may be applied toward degree requirements. Students who wish to attempt any CLEP examination should consult the UIC Testing Service, (312) 996-3477, before registering for any CLEP subject or general examination. The CLEP general and subject examinations are given once each month and a fee is charged.

### CLEP Credits Accepted

#### 1. General Examinations –

Students may earn credit toward meeting general education graduation requirements based upon performance on one or more of the following CLEP General Examinations.

Colleges at UIC with general education requirements of less than 8 semester hours require students to take at least 3 semester hours of classroom credit in each general education area. Note: The College of Liberal Arts and Sciences does not accept CLEP examination credit in Natural Sciences.

#### 2. Subject Examinations –

Students are advised to consult the appropriate department after enrollment to determine whether a given CLEP subject examination is offered, what level of competency is required, and whether the credit is counted toward graduation requirements.

Credit Awarded for CLEP Examinations		
	Scores (Credit)	Scores (Credit)
Humanities	542–603 (3 SH)	Above 603 (6 SH)
Natural Sciences	592–661 (3 SH)	Above 661 (6 SH)
Social Sciences—History	498–564 (3 SH)	Above 564 (6 SH)

### Credit Through Advanced Placement Program (AP)

This program, administered by the College Board, is designed for those high school students about to enter college who wish to demonstrate their readiness for courses more advanced than those

ordinarily studied during the freshman year. College credit is awarded to those students who earn sufficiently high grades on the examinations covering basic freshman-course subject matter. The University encourages able high school students to enroll in these courses and to write the examinations in one or more of the subjects below. The examinations are prepared by joint national committees of high school and college teachers and are administered by the Educational Testing Service.

These examinations, graded by other national committees, have the following values: 5=*extremely well qualified*, 4=*well qualified*, 3=*qualified*, 2=*possibly qualified*, 1=*no recommendation*. It is the student's responsibility to have official grade reports sent from the College Board Advanced Placement Examination Program, 45 Columbus Avenue, New York, NY 10023-6992, to the Office of Admissions before credit can be awarded.

UIC makes these specific credit recommendations:

### ART

#### Studio Art –

Elective credit is given only after portfolio review by the School of Art and Design Evaluation Committee.

#### Art History –

Grades of 5 and 4: 8 semester hours of credit in Art History 110 and 111.

### HUMANITIES

#### Classics-Vergil –

Grades of 5, 4, and 3: 3 semester hours of credit in Latin 299 (Topic: Vergil).

#### Classics-Latin Literature –

Grades of 5, 4, and 3: 3 semester hours of credit in Latin 299 (Topic: Latin Lyric Poetry).

#### English-Literature and Composition –

Grades 5 and 4: 3 semester hours of credit in English 101.

#### English-Language and Composition –

Grades 5 and 4: 3 semester hours of credit in English 160.

#### European History –

Grades of 5 and 4: 6 semester hours of credit at the lower-division level.

#### French –

1. Grades of 5 and 4: 8 semester hours of credit in French 103 and 104.

2. Grade of 3: 4 semester hours of credit in French 103.

#### German –

1. Grades of 5 and 4: 8 semester hours of credit in Germanic Studies 103 and 104.

2. Grade of 3: 4 semester hours of credit in Germanic Studies 103.

#### Music-Theory –

Grades of 5, 4, and 3: 8 semester hours of credit in Music 101, 102, 103, 104.

#### Music-Listening and Literature –

Grades of 5, 4, and 3: 6 semester hours of credit in Music 100 and 131.

#### Spanish-Language –

1. Grade of 5: 6 semester hours of credit in Spanish 200 and 201.

2. Grade of 4: 3 semester hours of credit in Spanish 200.

3. Grade of 3: 4 semester hours of credit in Spanish 107 or 114.

#### **Spanish-Literature –**

1. Grade of 5: 6 semester hours of credit in Spanish 210 and 211.
2. Grade of 4: 3 semester hours of credit in Spanish 210.
3. Grade of 3: 4 semester hours of credit in Spanish 105 or 114.

### **SOCIAL STUDIES**

#### **American Government and Politics –**

Grades of 5 or 4: 3 semester hours of credit in Political Science 101.

#### **American History –**

Grades of 5 and 4: 6 semester hours of credit at the lower-division level.

#### **Comparative Government –**

Grades of 5 and 4: 3 semester hours credit in Political Science 130.

#### **Micro-Economics –**

Grades of 5 or 4: 3 semester hours credit in Economics 120.

#### **Macro-Economics –**

Grades of 5 or 4: 3 semester hours credit in Economics 121.

#### **Psychology –**

Grades of 5 and 4: 4 semester hours in Psychology 100.

### **NATURAL SCIENCES**

#### **Biology –**

Grades of 5, 4, and 3: 10 semester hours credit for Biological Sciences 100, 101.

#### **Chemistry –**

Grades of 5 and 4: 10 semester hours credit for Chemistry 112, 114, and permission to enroll in Chemistry 222.

#### **Environmental Science –**

Grades of 5 or 4: 5 semester hours credit for Earth and Environmental Sciences 107.

#### **Physics –**

1. Grades of 5 or 4 on the B examination: 10 semester hours credit in Physics 105 and 106, 107 and 108.
2. Grade of 3 on the B examination: automatic admission to proficiency examinations in Physics 105 and 106, 107 and 108.
3. Grades of 5 or 4 on the C examination, Part I Mechanics: 5 or 4 semester hours credit in Physics 105 and 106, or 141.
4. Grades of 5 and 4 on the C examination, Part II Electricity and Magnetism: 5 or 4 semester hours credit in Physics 107 and 108, or 142.
5. Grade of 3 on the C examination: automatic admission to proficiency examinations in Physics 105 and 106 and 107 and 108, or Physics 141 and 142.

### **MATHEMATICS**

1. Grades of 5, 4, or 3 on the BC examination: 10 semester hours credit in Mathematics 180, 181 and advanced placement in any course for which Mathematics 181 is a prerequisite.
2. Grades of 5, 4, or 3 on the AB examination: 5 semester hours credit in Mathematics 180 and advanced placement in Mathematics 181.

3. Grade of 2 on the BC examination: 5 semester hours credit in Mathematics 180 and advanced placement in Mathematics 181.

4. Grades of 2 or 1 on the AB examination: students in this category are invited to take a proficiency examination in Mathematics 180. Passing this examination gives 5 semester hours of credit in Mathematics 180 and advanced placement in Mathematics 181.

5. Grade of 1 on the BC examination: students in this category are invited to take a proficiency examination in Mathematics 180. Passing this examination gives 5 semester hours of credit in Mathematics 180 and advanced placement in Mathematics 181.

#### **Computer Science –**

1. Grades of 5 and 4 on the AB examination: 8 semester hours credit in Mathematical Computer Science 260 and 360 and advanced placement in any course for which Mathematical Computer Science 360 is a prerequisite.
2. Grades of 5 and 4 on the A examination: 4 semester hours credit in Mathematical Computer Science 260 and advanced placement in Mathematical Computer Science 360.
3. Grade of 3 on the AB examination: 4 semester hours credit in Mathematical Computer Science 260 and advanced placement in Mathematical Computer Science 360.

### **STATISTICS**

#### **Communication –**

Grades of 5, 4, and 3: 3 semester hours of credit in Communication 201.

#### **Criminal Justice –**

Grades of 5 and 4: 3 semester hours of credit in Criminal Justice 262.

#### **Mathematics Majors and All Others –**

Grades of 5, 4, or 3: 5 semester hours in Mathematics 118.

#### **Political Science –**

Grades of 5 or 4: 3 semester hours credit for Political Science 201.

#### **Psychology –**

Grades of 5 and 4: 3 semester hours of credit in Psychology 242.

#### **Sociology –**

Grades of 5 and 4: 4 semester hours of credit in Sociology 201.

### **Credit Through the International Baccalaureate Program (IB)**

The University of Illinois at Chicago will award credit on the basis of scores from several International Baccalaureate examinations: anthropology, biological sciences, chemistry, classics (Latin), economics, English, French, geography, German, history, mathematics, music, philosophy, physics, psychology, and Spanish. Students who wish to have such examination scores evaluated should request an official transcript from the International Baccalaureate program, or request their high school to forward an official score transcript, to the Office of Admissions (M/C 018), The University of Illinois at Chicago, Box 5220, Chicago, Illinois 60680.

UIC makes the following specific credit recommendations:

**Anthropology –**

Credit for Anth 103 for scores of 6 or 7 (higher and subsidiary levels)

**Biological Sciences –**

Credit for BioS 100 and 101 for scores of 6 or 7 (higher level only)

**Chemistry –**

Credit for Chem 112 and 114 for scores of 6 or 7 (higher level only)

**Classics –**

***Higher level***

Credit for Lat 101-104 and Lat 299 for scores of 6 or 7

***Subsidiary level***

Credit for Lat 101-104 for scores of 6 or 7

**Economics –**

Credit for Econ 120 and 121 for scores of 6 or 7 (higher level only)

**English –**

Credit for either Engl 101 or Engl 102 for scores of 6 or 7

**French –**

***Language B, higher level***

Credit for Fr 201 and Fr 231 for scores of 5, 6 or 7; personal interview with department for possibility of credit for Fr 202 and 232.

***Language B, subsidiary level***

Credit for Fr 201 and Fr 231 for scores of 5, 6, or 7

***Language A, higher and subsidiary levels***

Students should consult with department for interview and special advanced placement similar to that accorded native speakers

**Geography –**

***Higher level***

Credit for Geog 121, Geog 131, Geog 101, and Geog 151 for scores of 6 or 7

***Subsidiary level***

Credit for Geog 100 and Geog 141 for scores of 6 or 7

**German –**

Credit for Ger 211 and Ger 318 for scores of 6 or 7; credit for Ger 211 for scores of 4 and 5; students with scores of 1, 2, or 3 should take the German placement exam

**History –**

Credit for Hist 101, Hist 103, and Hist 104 for scores of 6 or 7 (higher level only)

**Mathematics –**

Credit to be determined on an individual basis for scores of 5 or higher (higher level only)

**Management –**

No credit

**Music –**

***Higher level***

Credit for Mus 100, Mus 101, Mus 103, Mus 107

***Subsidiary level, option X***

Credit for Mus 100, Mus 103, and Mus 107

***Subsidiary level, option Y***

Credit for Mus 100, Mus 101, Mus 107

**Philosophy –**

Credit for Phil 100 for scores of 6 or 7 (higher level only)

**Physics –**

***Higher level***

Credit for non-calculus sequence (Phys 105, 106 and 107, 108) or calculus sequence (Phys 141 and 142) for scores of 5 or better

***Subsidiary level***

Credit for Phys 121 for scores of 5 or better

**Psychology –**

Credit for Psch 100 for scores of 5, 6, or 7

**Spanish –**

***Spanish A, higher level:***

Credit for Span 210 for scores of 6 or 7

***Spanish B, higher level***

Credit for Span 201 for scores of 6 or 7

## After Admission

After a student has been admitted, a Letter of Admission is sent. Enclosed are the instructions for placement tests, registration, medical immunization and housing. Admission is valid only for the term stated and may not be used for subsequent terms. 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. It is sent a few weeks after the admission letter to students admitted as degree candidates.

### Registration Procedures

Registration includes Pre-enrollment Evaluation Program (PEP) tests (not always required of readmitted or continuing students), program advising and approval, and enrollment in approved program of courses.

Detailed registration instructions are published in the *Timetable* each term.

### Pre-enrollment Evaluation Program/Placement Tests/PEP Tests

Required of students registering for the first time in UIC, these 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 about the tests are stated in the materials enclosed with the notice. It is recommended that students sign up for the earliest possible test dates in order to qualify for earlier registration dates.

UIC 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 five tests: mathematics, reading, composition, academic skills, and career interests. Students in certain colleges and major programs take two additional tests: chemistry or physics and foreign language.

### Academic Advising

Students who have been granted admission to 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 term.



Students admitted to the spring and summer terms and continuing students who did not advance enroll during the preceding terms should contact the advising office in their college to arrange for academic advising prior to registration.

## 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 pass/fail, 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 residency requirements.

#### Requirements/Conditions

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

#### 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, a special form obtainable from the Office of Registration and Records must be signed by the instructor and the dean 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 or others who are exempt from tuition do not pay the audit fee.

## Other Information

### Falsification of Documents

Any student who, for purposes of fraud or misrepresentation, falsifies, forges, defaces, alters, or mutilates in any manner any 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 of credits, library documents, and petitions for change in 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.

### 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.

### Transcripts

Students may request copies of their official transcripts from the Office of Records and Registration by mail, in person, or online through the university webpage. Students who are in debt 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. See *Other Fees and Charges in Student Costs*.



## 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 credit hours are temporarily exempt from the immunization requirements. Prior to registering for on-campus courses or for more than five credit 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.

**Location:** Room 1300, Student Services Building  
1200 West Harrison Street

**Mailing address:** Box 5220 (M/C 018)  
Chicago, Illinois 60680-5220

**Telephone:** (312) 413-0464

**Office Hours:** 8:30 a.m. to 5:00 p.m. Monday through Friday

## 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 re-enroll after having lost continuing status, reapplication and readmission to the University are required.

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.

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

1. Currently enrolled continuing students are eligible to register and should receive appointment letters 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 the following conditions are 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. Dropped 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.

## Social Security Number (Student Identification Number)

Every student must have an accurate social security number (or assigned student number) before proceeding with registration. This number, in combination with the six-digit PIN (Personal Identification Number), must be entered when using UIC Express telephone registration services or the web-based UIC Student Access System. This number, unlike the student's name, is unique; it controls the accuracy of the student's records. Any inaccuracies in the social security number (or assigned student number) should be reported immediately to the Office of Registration and Records, Student Services Building (Suite 1200), 1200 W. Harrison.

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 as the student identification 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 this right is exercised, a special nine-digit student identification number will be assigned for record purposes throughout the duration of the student's affiliation with the University. As the record key, that number must be retained permanently by the student and used for all records-related transactions (including transcript requests).

The social security number will be used in the following cases: a) to identify such student records as applications for admission, registration-related documents, grade reports, transcript and certification requests, and permanent academic records; b) to determine eligibility, certify school attendance, and report student status; and c) as an identifier for grants, loans, and other financial aid programs.

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

## Change of College/Major/Curriculum for Current Students

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

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 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.

## **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:

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 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 or 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 THEIR RECORDS, 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 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 Costs

## 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 bill. The amount of tuition and the service fee varies by the date a student enters the university or changes student level within the university and by the number of credit 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 Illinois resident or nonresident status of the student. For a description and definition of resident status, see *Regulations Governing the Determination of Residence Status for Admission and Assessment of Student Tuition* at the end of 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.

### Residence Classification

The 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 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 credits taken by an academic employee. Total number of credits allowed to 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. Range III if on 50 to 99 percent time appointment, provided that they (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. The number of credit hours per semester 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 *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, the service fee, for one semester or summer session for each semester of service rendered. The exemption shall apply to the semester or summer session of registration, as designated by the student, that is concurrent with, or following, the term of service, but must be applied no later than one calendar year from the end of the term of service. Concurrent registration on more than one campus of the University or in University extramural courses constitutes one semester or session of eligibility for exemption.
7. Persons registered in noncredit seminars only.
8. University employees registered at the request of their departments in noncredit courses especially established to improve the work of the employee.
9. University of Illinois retirees.
10. Illinois residents, age 65 or older, whose annual household income is less than \$12,000.
11. Teacher of the Year.
12. Fifty percent of tuition is waived for eligible children of eligible University of Illinois employees:
  - a. An eligible employee must be a current University of Illinois employee at 50 percent time or more, eligible for employer-provided benefits, and in active status as of the first day of the academic term for which the waiver is being requested (changes in status after the first day will affect only future academic terms). In addition, the employee must have completed at least seven years of eligible employment as of the first day of the academic

term, although the seven years do not have to be consecutive.

- b. An eligible child must be under 25 years of age at the beginning of any academic year (defined as the first day of instruction) in which the waiver will be effective; and must be the natural child, adopted child, child of current spouse, or under court-appointed guardianship (only if natural parents are deceased or have been declared unfit by court action) 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.



# University of Illinois at Chicago Tuition and Fees 2002-2003

**Tuition and Fee Rates for 2003-2004 were not available at the time of publication.**

*Subject to change without notice.*

## Fall and Spring Semester Rates

	Range I 12 and over Semester Hours		Range II 6 to 11 Semester Hours		Range III 1 to 5 Semester Hours		Range IV Zero Semester Hours
	New <sup>1</sup> Resident/ Continuing <sup>2</sup> Resident	New <sup>1</sup> Nonresident/ Continuing <sup>2</sup> Nonresident	New <sup>1</sup> Resident/ Continuing <sup>2</sup> Resident	New <sup>1</sup> Nonresident/ Continuing <sup>2</sup> Nonresident	New <sup>1</sup> Resident/ Continuing <sup>2</sup> Resident	New <sup>1</sup> Nonresident/ Continuing <sup>2</sup> Nonresident	New <sup>1</sup> Resident and Nonresident/ Continuing <sup>2</sup> Resident and Nonresident
<b>Undergraduate:</b>							
Tuition	\$2,332/1,832	\$5,996/5,496	\$1,554/1,221	\$3,997/3,664	\$778/611	\$1,999/1,832	\$389/305
General Fee	227	227	227	227	227	227	227
Service Fee	259	259	259	259	166	166	166
Health Service	88	88	88	88	88	88	88
Health Insurance	315	315	315	315	315	315	315
<b>TOTAL</b>	<b>\$3,221/2,721</b>	<b>\$6,885/6,385</b>	<b>\$2,443/2,110</b>	<b>\$4,886/4,553</b>	<b>\$1,574/1,407</b>	<b>\$2,795/2,628</b>	<b>\$1,185/1101</b>
<b>Engineering Undergraduate:</b>							
Tuition	\$2,532/2032	\$6,196/5,696	\$1,687/1,354	\$4,130/3,797	\$845/678	\$2,066/1,899	\$422/338
General Fee	227	227	227	227	227	227	227
Service Fee	259	259	259	259	166	166	166
Health Service	88	88	88	88	88	88	88
Health Insurance	315	315	315	315	315	315	315
<b>TOTAL</b>	<b>\$3,421/2,921</b>	<b>\$7,085/6,585</b>	<b>\$2,576/2,243</b>	<b>\$5,019/4,686</b>	<b>\$1,641/1,474</b>	<b>\$2,862/2,695</b>	<b>\$1,218/1,134</b>

<sup>1</sup> Students entering Summer 2001 and after.

<sup>2</sup> Students who entered prior to Summer 2001.

An additional \$3.00 will be assessed for the mandatory, refundable Student-to-Student Program.

### Refund Schedule

<b>Cancel</b> registration before term begins	100 percent refund
<b>Withdraw</b> from University during first through tenth week of term	Pro-rata refund based upon official date of withdrawal
<b>Course Drop</b>	No rebate after the second week (first week of summer term)

### Fees

All fees are subject to change without notice.

All applicants for admission pay a nonrefundable *Application Fee* of \$40.00 for domestic/immigrant students, \$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 director of admissions.)
4. Applicants under approved international exchange programs in which the University participates such as LAS-PAU and ASPAU, and international students participating in approved exchange programs where the waiver of fees is reciprocal.
5. University of Illinois intercampus transfers at the same level: undergraduate to undergraduate, graduate to graduate, or professional to professional.
6. Applicants denied admission to one campus who wish to apply for admission on the same level at another campus for the same term.
7. Graduate and professional applicants whose entry is advanced or delayed by action of their major departments.
8. UIC students applying for work on a second campus as concurrent registrants.

9. Cooperating teachers and administrators who receive assignment of student teachers; social agency field instructors who receive assignment of social work students.
10. Students on “leave of absence” status who are re-entering.
11. Applicants to the Talented High School Senior Program.
12. Summer Session Only (SSO) applicants.
13. Chicago Public Schools Bridge Program.

The *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.
3. Students registered in courses taught off campus.
4. Cooperating teachers and administrators and social agency field instructors who meet the qualifications of item 6, tuition waiver exemptions.
5. Persons registered in noncredit seminars only.
6. University employees registered at the request of their department in noncredit courses for the purpose of improving their work.
7. University of Illinois retirees.
8. Teacher of the Year.

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. All eligible UIC students are automatically enrolled in and covered by the Mega Life health insurance plan and assessed the fee. Information on deadlines, benefits, dependent coverage, insurance waiver or anything else related to Student Health Insurance is available from Mega Life representatives located in the Office of Student Development Services, 1600 SSB; telephone (312) 996-3553, fax (312) 413-7872, or visit their website at: [www.student-resources.net](http://www.student-resources.net). To enroll an eligible dependent (spouse or children) in the Student Health Insurance Plan, submit an application before the deadline for the term requested. The additional premium will be assessed on the student account.

Students who withdraw from the University on or after the first day of classes *do not* receive an insurance cancellation since they remain insured for the balance of the term from which they withdrew. In order to remove the student insurance, a waiver form and proof of insurance must be presented to the insurance office by the waiver deadline.

If covered under another health insurance plan, students may choose to waive coverage by submitting a waiver form along with proof of comparable coverage, a copy of a health insurance card, letter from an insurance company or employer before the waiver deadline for the term for which the waiver is requested. The waiver is permanent unless a reinstatement application is submitted to the Insurance Office subject to a determination of eligibility.

Reinstatement within the enrollment period is allowed. The effective date is the first day of the semester that the reinstatement is requested. Reinstatement outside of the enrollment period is allowed if there is a change in student or spouse’s employment status. Students have 30 days from the date of a change in employment status to submit a reinstatement application along with proper documentation.

All students who have been continuously insured under the policy for at least six consecutive months and who no longer meet the eligibility requirements under the policy are eligible to continue their coverage for a period of not more than six months under the school’s policy. An application must be made within the established timeframe along with payment to the Mega Life and Health Insurance Company.

The *Health Service Fee* supports the campus Health Service facility. For information regarding health service, see *Health Services for Students* in the section *Student Services*.

## 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 Photo-Identification 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 will remain at \$2.00.

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 sent to a third party.

## Encumbered Students

Students who owe any money to the University will not be permitted to register, will not be entitled to receive an official transcript of their credits, and will not be entitled to receive their diplomas until their indebtedness has been paid.

Past due accounts are subject to a *finance charge* at the *annual percentage rate* of 18 percent (1.5 percent per month on the unpaid balance of each month). Additionally, a *late fee* of \$2.00 per month will be added to all past due accounts.

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.

Students who fail to present proper immunization records by the stated deadlines will also be encumbered.

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 provided below.

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 and health insurance 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). 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 <sup>a</sup>
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%
Weeks 11–16	0%

<sup>a</sup> Less an administrative fee equal to 5 percent of the amount assessed the student or \$100, whichever is less.

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. Any amount remaining will be paid to the student.

Refund on Withdrawal from a Course

If withdrawal from a course is completed during the first 10 days of instruction of the fall or spring semester or the first five days 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 is issued if the withdrawal is made within the first 10 days of instruction.

Refund on Withdrawal to Enter 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 the section on *Withdrawal to Enter Military Service* under *Graduation Requirements and Academic Regulations*.

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 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 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 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 resident for University of Illinois tuition and admission purposes. The University’s definition of resident status applies both to payment of tuition and admission to the University of Illinois.

Principal elements determining 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 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 residency status.

Residency 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 residency status previously granted under former regulations.

Regulations

The following regulations are used to determine the 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 residency with notification of permanent residency status by the United States Immigration and Naturalization Service 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 bonafide 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 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 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 residency.

## Procedures

The Director of Admissions and Records, or a designee, shall determine the initial residence classification of each person at the time the person enters or re-enters the University.

A person who is not satisfied with a determination concerning his/her residence classification may request that the responsible official reconsider the determination. 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 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 term, February 15 for the spring term, and 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 from the Office of Admissions and Records) and all other materials which 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, University Office for Academic Policy Analysis. The appeal shall be in writing and shall include reasons for the appeal. The appeal *must be received* by the Director of Admissions and Records *within 20 calendar days of the notice of the ruling.* The appeal will then be referred to the Director, University Office for Academic Policy Analysis. 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 applications and appeals untimely filed will not be reviewed. The decision of the Director, University Office for Academic Policy Analysis, 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 resident student, nonresident tuition shall be assessed in the next term; if the person is classified in error as a nonresident, 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 which might affect classification or reclassification from 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 Director of Admissions and Records, 1100 Student Services Building (MC 018), The University of Illinois at Chicago, Office of Admissions and Records, Box 5220, Chicago, Illinois 60680-5220.

# Financial Aid

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## Office of Student Financial Aid 1800 Student Services Building

**Director:** Marsha S. Weiss.

**(312) 996-3126**

The Office of Student Financial Aid (OSFA) provides a wide range of financial services designed to help students and their families meet the cost of attending the University.

The financial aid awarded is in the form of grants, scholarships, loans, employment, and tuition waivers and helps pay the costs of tuition, fees, books, supplies, room and board, transportation, and other personal expenses. The Office of Student Financial Aid coordinates and administers a variety of state, federal, private, and University programs of financial aid (each with different regulations, requirements, procedures, and forms). Specific financial aid programs are described later in this chapter.

The primary responsibility for meeting educational expenses rests with the student and the student's family. Once that responsibility has been met by the student and his or her family to the best of their abilities (as determined by a careful review of their financial resources), the University will offer assistance.

The information presented here is subject to change as federal, state, and local regulations are modified.

## Getting in Touch with the Office of Student Financial Aid

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The Office of Student Financial Aid is open between **8:30 a.m. and 5:00 p.m.**, Monday through Friday. Counselors are available to meet with students and their families on **an appointment** basis. Each student is assigned an individual financial aid counselor who will work with the student throughout the financial aid process. Students can visit the office, write or call:

Room 1800 Student Services Building (M/C 334)  
1200 West Harrison Street  
Chicago, IL 60607-7163  
(312) 996-3126

To make an appointment or to speak with a financial aid operator, call **(312) 996-3126** during normal business hours.

Students can also visit the OFSA web site at <http://www.uic.edu/depts/safa> to get general information about financial aid at UIC. In addition, current students can check the status of their financial aid application and awards on-line through the Student Access System at <http://www.uic.edu/depts/ims/webstudent>. Students can also send an e-mail to the general address: [money@uic.edu](mailto:money@uic.edu) and have a message forwarded to a counselor.

## Applying for Financial Aid

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The financial aid application process is complicated and takes a considerable period of time from the date of application to the announcement of a financial aid award decision. Students should not wait until they have been accepted for admission by UIC to apply for financial aid. Students must, however, have an admission application on file before financial aid materials are processed by the UIC financial aid office. If students are applying to the health sciences colleges, they must have a complete financial aid file and a paid admissions deposit to be reviewed for financial aid.

### Financial Aid Need Analysis Application

To be considered for financial aid, students must file a federally approved financial aid application. UIC requires the Free Application for Federal Student Aid (FAFSA) form. By

filing the FAFSA, students will be considered for the Federal Pell Grant Program, the Illinois Student Assistance Commission Monetary Award Program, the Federal Direct Stafford Student Loan, and for other grants, loans, and work programs administered by the Office of Student Financial Aid.

High school students may obtain a FAFSA from their guidance counselor, transfer students from their college's financial aid office, and others from the UIC Office of Student Financial Aid. Students may also apply on-line by visiting the Website [www.fafsa.gov](http://www.fafsa.gov).

The FAFSA must be submitted to the application processor by the *March 1st* priority deadline to be considered for all types of financial aid offered by UIC. Students who apply after the March 1 deadline will be considered for aid but funds for some programs may not be available.

## General Financial Aid Eligibility Criteria

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After the Office of Student Financial Aid has received the required application materials, a student's eligibility for financial aid will be determined based on a review of financial need and academic record. Assistance is awarded according to the level of demonstrated need, the date the financial aid application was complete, and the availability of funds. Students receive financial aid packages covering the fall and/or spring semesters. If funds are available, students may apply for aid for the summer session. Applications for summer aid are available from the Office of Student Financial Aid in early February. The application deadline for summer aid is March 1. Health sciences students who are enrolled in regular 12-month programs receive packages that include aid for the summer session along with the fall and spring terms. Students must meet the following criteria to be eligible for federal, state, or University assistance:

1. be a United States citizen or permanent resident.
2. be financially needy as determined by the Office of Student Financial Aid.
3. be enrolled at least half time (six hours per semester).
4. be making satisfactory academic progress in order to retain eligibility.
5. be pursuing a course of study that leads to a degree.
6. not be in default of any Title IV educational loan or owe a repayment of any Title IV student aid funds.
7. be registered, if required by law, with the Selective Service Administration.

## Satisfactory Academic Progress Policy

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Federal regulations and the Illinois Student Assistance Commission (ISAC) require that the University 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 students. It is imperative that students read the following policy thoroughly and carefully.

## Types of Aid Covered by the Policy

### Grants

- Federal Pell
- Federal Supplemental
- Student-to-Student
- ISAC Monetary Award
- UIC Scholarships
- UIC Grants

### Loans

- Federal Perkins
- Federal Direct Subsidized Stafford
- UIC Long-Term
- Federal PLUS Loan
- Federal Direct Unsubsidized Stafford

### Other

- Federal College Work Study
- UIC Tuition Waivers

## Specific Rules for Determination of Satisfactory Academic Progress

A student's academic progress toward a degree will be monitored using three criteria. Failure to meet *any* one of the standards will result in the cancellation of the student's financial aid.

### Course Work Completion Rate

1. A student must successfully complete at least 75% of the hours attempted each academic year. *Hours attempted* is 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 "P." "DF" will be considered an acceptable grade for graduate students only.
2. Withdrawals, incompletes, and repeat courses are handled in the following manner: withdrawal from course(s) must be completed *before* tuition is charged. Course(s) withdrawn after the 10th day of classes *will* be included in hours attempted. Incomplete courses and repeat courses are included in hours attempted.
3. 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*. This standard includes terms in which the student is not receiving aid. Aid will be reinstated once the student has achieved the 75% cumulative completion rate.

### Grade Point Average (GPA) Requirement

1. The student's cumulative GPA will be evaluated at the end of each term.
2. Once a student has attempted 60 hours, the GPA must be at least 3.00 (A = 5.00). If it falls below 3.00, the student's aid will be *canceled*.
3. Aid will be reinstated once the student has achieved the 3.00 cumulative grade point average.

## Degree Completion Requirements

1. A UIC student must complete a bachelor's degree within 180 semester hours.
2. Students attempting to earn a *second* bachelor's degree must complete the degree within the number of hours remaining of the 180 hours allowed for the first bachelor's degree. Therefore, students may take up to a maximum of 60 hours for a second bachelor's degree to remain eligible for financial aid.
3. Exceptions may be made for those programs which require more than 120 semester hours to complete the degree requirements.

## General Guidelines

Students will be notified at the end of *each* spring semester of their current status. OFSA recommends that *students* keep track of their progress during summer and fall terms. Financial aid counselors are available by appointment to discuss students' financial aid situations. Students are encouraged to take advantage of this service.

## Appeal Procedure

Students who wish to appeal being placed on cancellation status must complete the following procedures within twenty-one (21) calendar days from the date specified in the notification letter sent from the Office of Student Financial Aid.

1. Submit a signed, typewritten, and dated letter of appeal to the Office of Student Financial Aid indicating reason(s) why funds should not be suspended.
2. Students may appeal for an emergency condition (e.g., health, 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 will render a decision. This committee consists of members from various UIC colleges and offices, including the OSFA. The Committee meets the week before a new term begins, the fourth week of the term and the eighth week of the term. Appeals must be received ten days before the Committee meets to allow time for copying and distribution to Committee members. Any appeals received after the eighth week of the term will not be considered until the following term. The Office of Student Financial Aid will promptly notify the student in writing of the Committee's decision.

## 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. In addition, if students are due a refund of tuition and fees, a portion of that refund may be retained to repay the Federal aid accounts on their behalf or to serve as a prepayment on their loan(s). Therefore, before actually dropping a course or withdrawing from the University, students should come to the OSFA and meet with a financial aid counselor to discuss the potential impact of the action on their current term financial aid award.

When withdrawing from the University, students' charges will be "pro-rated" based on the time of the term in which they withdraw. *See the "Pro-rata Refund Schedule" listed in the UIC Timetable.* Students will also be charged an administrative fee equal to \$100 or 5% of their charges, whichever is less.

**EXAMPLE:** If a student withdraws during the fourth week of a 16-week term, the student would owe 30% of the tuition and fees charged. If the tuition and fees were \$2,000 for the term, the student would owe \$2,000  $\times$  30% = \$600 + \$30 (5% administrative fee) = \$630 in pro-rated charges.

## Reduced Enrollment (Refund Reduction) Policy

Reducing hours can have a serious impact on a student's financial aid. If a student is assessed a lower tuition and fee rate, a refund may be generated. However, the refund may be withheld if the student's financial aid was reduced as a result of the decreased enrollment hours. In such a case, the refund is used to repay financial aid accounts on the student's behalf. If the refund is insufficient to cover the reduction in aid, the student will be billed for the remaining charges.

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. It is important to contact OSFA prior to dropping a class.

## Midyear Transfer Student Information

If a student transfers to UIC at midyear, the financial aid award cannot be transferred by another college for use at UIC. A new financial aid package must be prepared by the OSFA for use at UIC. In order to prepare a new award, the student must include UIC as a school to receive information on the FAFSA application. If a student did not include UIC on the original application, he or she must add UIC to the Student Aid Report (SAR) and submit it to the federal processor. Once this information is received by the OSFA, a financial aid award letter will be sent to the student. The student will be considered for any funds that are still available.

## Types of Financial Aid Available at UIC

UIC participates in a wide range of financial aid programs offered through federal, state, institutional and outside agencies. There are three types of aid available: gift aid, loans, and work-study.

1. **Gift aid:** Aid which does not have to be repaid (grants, waivers, scholarships). Grants are awarded based on need, while scholarships are awarded based on merit (i.e., academic, athletic, etc.).
2. **Loans:** Aid (borrowed money) which must be repaid, with interest, by the student or parent.
3. **Work Study:** Aid which is used to pay a student for hours worked at a part-time job.

By filing the Free Application for Federal Student Aid (FAFSA), students are automatically considered for the following aid programs offered by UIC.

### Gift Aid

#### Federal Pell Grant

The Pell grant is a federally funded program awarded to eligible students who demonstrate significant financial need. Only students seeking their first bachelor's degree are eligible to receive this grant.

In the 2002-2003 academic year, Pell grant awards ranged from \$400- \$4,000 yearly. The grant can be used toward educational costs, including room and board, books and supplies, transportation, etc. If a student is eligible to receive the Pell grant, the amount of the award is, in part, determined by the number of hours for which a student is enrolled.

#### Federal Supplemental Educational Opportunity Grant (SEOG)

Like the Pell grant, the SEOG is a federally funded program awarded to eligible students who demonstrate significant financial need and who are seeking their first bachelor's degree. Only students who are eligible to receive the Federal Pell Grant will be considered for an SEOG.

In the 2002-2003 academic year, SEOG awards ranged from \$200 – \$1,000 per year. A student must be enrolled at least half-time (6 hours per semester) to receive this grant.

#### State of Illinois Monetary Award Program (MAP) Grant

The Monetary Award Program (MAP) Grant is awarded by the State of Illinois to Illinois residents attending in-state colleges/universities who are seeking their first bachelor's degree. The state funds the program and awards eligible recipients based upon availability of funds.

By filing the FAFSA and agreeing to share that information with the Illinois Student Assistance Commission (ISAC), students are considered for the Illinois Monetary Award Program (MAP) Grant. Since state funding is limited and subject to change, reductions to estimated or actual MAP grants are possible.

In 2002-2003, MAP awards ranged from \$150 up to tuition and fees or \$4,720, whichever was less. To be considered for full-year awards, continuing students must file the FAFSA *before* June 1 and new students *before* August 15 of the calendar year they plan to attend. Eligible students may not receive the MAP grant for more than 8 full-time semesters or the equivalent, whichever is reached first. Students must be enrolled at least half-time (6 credits per semester) to receive the MAP grant.

#### Illinois Incentive for Access (IIA) Grant

By filing the FAFSA and agreeing to share that information with the Illinois Student Assistance Commission (ISAC), students have also applied for the Illinois Incentive for Access (IIA) Grant. IIA is a one-time grant of up to \$500 for freshmen students who have limited ability to pay for their higher education. Students must be enrolled at least half-time to be eligible for the IIA Grant.

#### Student to Student Grant (STS)

This grant is available to students who demonstrate need and who are seeking their first bachelor's degree. STS is funded by the State of Illinois and Illinois students. Funding for this program is limited. In 2002-2003 STS awards ranged from \$100 – \$1000 per year. Students must be enrolled at least half-time to be considered for the STS grant.

#### University Tuition Waiver

Tuition waivers are awarded to financially needy undergraduates who are ineligible to receive an Illinois Student Assistance Monetary Award. Waivers are restricted to the payment of tuition charges only. Any fees charged to the student must be paid by the student or covered by other financial aid sources. Students may request consideration for a tuition waiver by writing to the Office of Student Financial Aid and submitting



documentation verifying their ineligibility for an Illinois Student Assistance Monetary Award.

## Loans

### Federal Perkins Loan

This federally funded loan is awarded to financially needy undergraduate and graduate students. During the first two years of the undergraduate degree program, students may borrow up to \$3,000. The maximum amount an undergraduate may borrow is \$15,000, and the maximum a graduate student may borrow is \$30,000, including any loans borrowed as an undergraduate.

The interest rate for a Perkins loan is 5 percent. As long as recipients are enrolled for at least 6 hours per term, the federal government will pay the interest on their behalf. For new borrowers, repayment of the loan principal and interest begins nine months after graduation, leaving school or registering for less than 6 hours per term. Deferment of the accrual of interest and the repayment of the principal is available under certain conditions.

### Federal Direct Stafford Student Loans

There are two types of Direct Stafford Loans: subsidized and unsubsidized. The interest rate for new borrowers for both types of loans is variable, but does not exceed 8.25%. The actual rate at any given time is linked to the value of the 91-day treasury bill, plus 2.5%. Both the subsidized and unsubsidized loans have a fee of up to 4% deducted from each disbursement. This fee, also called the “origination” or “guarantee” fee, goes to the federal government to help reduce the costs of the loans.

When students borrow through the Stafford Loan program, they must sign a promissory note agreeing to pay back the money borrowed, with interest, according to the terms of the program. Federal regulations require students borrowing a Federal Direct Stafford Loan (subsidized or unsubsidized) for the first time at UIC to attend a “debt management” session *before* the first loan check is released. In addition, *all borrowers* will be required to attend a debt management session once a year. If they do not attend a debt management session, their grades, transcripts, and subsequent class registration will be put “on hold.”

Information about each program is listed below:

**Subsidized:** The subsidized direct loan is need based. If students qualify for a subsidized loan, the federal government pays interest on the loan (“subsidizes” the loan) until repayment begins and during authorized periods of deferment thereafter. Repayment of principle and interest begins six months after students graduate or leave school on less than a half-time basis.

Students can take out a Subsidized Direct Loan for as little as \$100, or up to the maximum shown below based on their grade level and financial need. The maximum students may borrow in the Subsidized program as an undergraduate is \$23,000. Students may borrow up to \$65,500 over his or her lifetime through the Stafford Subsidized Loan program. All undergraduate and graduate subsidized loans from any college or university attended are included in this maximum.

Freshmen: \$2,625 yearly

Sophomore: \$3,500 yearly

Junior/Senior: \$5,500 yearly

Graduate/Professional: \$8,500 yearly

For financial aid purposes:

Freshmen = 1 – 29 hours completed

Sophomore = 30 – 59 hours completed

Junior = 60 – 89 hours completed

Senior = 90 + hours completed

**Unsubsidized:** This loan is not awarded on the basis of need. If students qualify for an unsubsidized loan, they will be charged interest from the time the loan is disbursed until it is paid in full. Students can choose to pay the interest quarterly as billed or allow it to accumulate. If students allow the interest to accumulate, it will be capitalized, that is, the interest will be added to the principal amount of the loan and will increase the amount of money that has to be repaid overall. If interest is repaid quarterly, the recipient will pay less in the long run.

The yearly limits that students may borrow (up to the cost of education or total expenses) are listed below. The total of any subsidized and unsubsidized loan(s) that a student borrows may not exceed the yearly maximum. The undergraduate maximum for this loan is \$46,000 (total Subsidized and Unsubsidized Loans). The lifetime maximum for this loan is \$138,500 (total Subsidized and Unsubsidized Loans) including undergraduate and graduate loans from any college or university attended.

Undergraduate Limits:		
	Dependent	Independent
Freshmen:	\$2,625	\$6,625
Sophomore:	\$3,500	\$7,500
Junior/Senior:	\$5,500	\$10,500

Graduate Limits:		
Base Amount (Subsidized and Unsubsidized)	Additional Unsubsidized Only	Combined
\$8,500	\$10,000	\$18,500

### Federal Plus Loans (PLUS)

The PLUS loan is a federally funded program for the *parents* of dependent undergraduate students. Eligibility is not based on need, however applicants will be put through a credit check. Approved applicants can borrow up to the cost of attendance minus other financial aid awarded.

The PLUS loan is an unsubsidized loan, under which recipients will be charged interest from the time the loan is disbursed until it is paid in full. The interest rate is linked to the rate of the 52-week treasury bills, plus 3.1%, not to exceed 9%. The first payment is due within 60 days of the loan’s disbursement.

To be considered for a PLUS loan, students must submit a completed PLUS Questionnaire to UIC’s OSFA. A FAFSA application is recommended but not required.

### University Long-Term Loan (ULT)

Funding for the ULT is very limited and students are considered for this loan automatically. Students may borrow up to a maximum of \$1,500 per academic year, and up to a maximum of \$6,000 as an undergraduate student. Repayment begins six months after leaving the University. The loan must be repaid within 10 years.

### Short-Term Loan

This loan is made for emergency educational expenses up to \$500. The funds must be used for educational expenses excluding tuition and fees. Students in need of a deferment of tuition and fee payments should consult Accounts Receivable in the Office of the Dean of Student Affairs.

Loans are repayable in 45 days or by the end of the term in which the loan is made. No interest is charged unless the borrower is delinquent in repaying the loan. A \$2 fee is charged for processing. Short Term Loans are not usually processed during final exam week or during the period between terms. However, in extreme emergencies occurring during these periods, a loan may be applied for if the applicant has proof of payment of fees and tuition for the next term.

### **Nursing Student Loan (NSL)**

This loan, awarded to nursing students with financial need, is funded by the repayments of prior NSL recipients. Only nursing students who are enrolled at least half-time are eligible to receive the loan. Funding is limited, and awards range from \$1000 – \$2000 per year. Like the Perkins Loan, NSL has an interest rate of 5 percent and is subsidized by the federal government. There is no origination or guarantee fee associated with the NSL.

Repayment of an NSL begins nine months after a student ceases to be enrolled for at least 6 hours per term. Deferment of accrual of interest and repayment is possible under certain conditions.

## **Employment**

### **Federal Work-Study Employment (FWS)**

This federally funded employment is awarded to financially needy undergraduate and graduate students. Students may work for on-campus departments or for off-campus agencies and are paid at least minimum wage and often more depending on the type of work and the skills required.

Being awarded FWS funds is not a guarantee of a job, nor a guarantee that the recipient will earn the entire award if hired as a work-study student. It is the recipient's responsibility to find a job if awarded work-study funds. The Student Employment Office (SEO), located in the Student Services Building, Suite 2200, posts openings for on-campus and off-campus jobs. This office will assist students in applying for any position for which they are qualified and interested.

### **Regular Student Employment (RSE)**

Under this program, students who are enrolled for at least 6 hours per term may be employed to work for the University. The Student Employment Office (SEO), located in the Student Services Building, Suite 2200, posts openings for on-campus and off-campus RSE jobs. This office will assist students in applying for positions for which they are qualified and interested.

## **Other Assistance Available**

Other government agencies and fraternal, civic, and religious organizations provide higher education financial assistance for students who are members or relatives of members of the organization. The organizations will likely have differing eligibility criteria and require separate applications. Listed below are some examples of these kinds of programs. More information is available in the Financial Aid Resource Room located in the Reception area of the OSFA office in the Student Services Building.

### **Armed Forces Health Professions Scholarships**

Health professions students are eligible to apply for these scholarships that provide tuition, fees, books, instruments, and a stipend of \$585 per month. In return, the student agrees to serve one year in either the Army, Navy, or Air Force for each year of

support (minimum of two years of service). Information and applications may be obtained at the following locations:

**Air Force:** USAF Medical Officer, Procurement, Garland Building, Suite 1805, 111 North Wabash, Chicago, Illinois 60602, (312) 263-1207.

**Army:** AMEDD Personal Counselor, Building 142, Room 345, Fort Sheridan, Illinois 60037.

**Navy:** Navy Recruiting District, Chicago, Building 41, Naval Air Station, Glenview, Illinois 60026.

### **Bureau of Indian Affairs (BIA) Grant Program**

Cash grants to cover educational expenses and related costs are provided to students who can verify and trace tribal membership. Applications are available from the various BIA regional offices. A complete listing of grants can be obtained from the UIC Native American Support Program, Student Services Building, (312) 996-4515.

### **GI Bill**

The University of Illinois at Chicago is approved for veteran benefits. For further information, contact Veterans Affairs, Office of Student Development Services, Suite 1600 Student Services Building, (312) 996-5141.

### **Illinois Department of Vocational Rehabilitation**

This agency provides assistance in varying amounts to full-time students bearing mental or physical disability. Students should contact their Department of Vocational Rehabilitation counselor for more information about the programs offered.

### **Illinois National Guard/Naval Militia Grants**

These full-tuition awards are available to full-time and part-time students in all undergraduate and graduate curricula who are enlisted members of the Illinois National Guard or Naval Militia. Applicants must have served for at least one year in the Illinois National Guard or Naval Militia. Scholarship eligibility terminates when membership terminates. Applications are available either in the Office of Student Financial Aid or from the Illinois Student Assistance Commission.

### **Illinois Veteran Grant (IVG)**

This grant is awarded in the amount of tuition and specified fees to qualified undergraduate and graduate veterans enrolled at Illinois public postsecondary institutions. Applicants must be Illinois residents with at least one year of military service. The discharge must have been other than dishonorable. Applications are available at UIC or at the Illinois Student Assistance Commission. Contact ISAC for deadlines.

### **ROTC Students**

An Army ROTC program is available through the Military Officers Education Program, second floor, Sangamon Street Building, 115 S. Sangamon, (312) 996-4351. Navy and Air Force ROTC programs are available to UIC students through the Illinois Institute of Technology (Navy 567-3530; Air Force 567-3525). Each of the services offers the following:

**Illinois State ROTC Scholarships.** Awarded to 10 students in each academic class for each service, these scholarships consist of a full-tuition waiver awarded on the basis of merit each semester.

**ROTC Scholarships.** Awarded on the basis of merit to qualified students, these scholarships pay for as many as four academic years of tuition, a \$150 monthly allowance, all required

textbooks, and all University fees. High school students may obtain applications from high school counselors. Currently enrolled students should visit the Military Officers Education Program.

## Scholarships, Prizes, and Awards of Recognition

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This section lists scholarships, prizes, and awards of recognition granted to students by various colleges, departments, and organizations. The section is arranged alphabetically by college and department. Students who wish to apply for any of the scholarships should contact the department which sponsors the scholarship or the Office of Student Financial Aid.

### All Majors and Colleges

**Alumni Board Student Scholarships – \$250 +.** Awarded to senior and/or graduate students in recognition of academic excellence and professional promise in their chosen field of endeavor. Three or four annual awards; \$250 minimum per award.

**Association Awards - Forty Awards of \$1,000.** These awards are funded by the general membership of the Scholarship Association through its fund raising activities and generous donations. They are intended to assist outstanding students, especially those who have also made contributions to the university community. This year the board is proud to announce 40 Association Awards of \$1,000 each. Leo Schelbert, Professor of History, is chair of the committee selecting the recipients. Applicants must: (1) be currently enrolled full-time UIC undergraduate students, carrying at least 12 hours, (2) have earned at least 12 credit hours at UIC before spring semester, (3) have a grade point average of at least 4.00, and (4) have demonstrated financial need.

**Avery Brundage Scholarship - \$1,500.** This award is based on both scholarship and athletic ability. Applicants must have participated in amateur athletics for personal development and must have demonstrated special athletic ability. Available to all students.

**Eugenia Bates Memorial Award - \$500.** Requirements for this award: student/applicant's parent/legal guardian must be a full-time employee of the support staff at UIC; applicant must be a continuing, full-time (carrying at least 12 hours per semester) student at UIC; and must have a 3.5 grade point average at UIC and, if a freshman, be in the top 10 percent of his or her high school graduating class. For further information write to Jessica Lasenby, Pathology Laboratories, (M/C 847), 435 College of Medicine West.

**Thomas Beckham Memorial Award - \$1,500.** Awarded to a member of an intercollegiate athletic team who does not hold a full athletic scholarship. Applicants must be undergraduate students who have been in attendance at UIC for at least two semesters and have not attained senior standing.

**Robert C. Byrd Honors Scholarship Program - up to \$1,500.** The Byrd Scholarship Program provides scholarships of up to \$1,500, for a maximum of four academic years, for academically exceptional high school graduates who show promise of continued academic excellence. Byrd Scholars must become high school graduates in the same high school year in which a scholarship application is submitted, must demonstrate academic achievement through test scores and high school transcripts and be enrolled, or accepted for enrollment, as full-time

undergraduate students in a postsecondary institution approved by the U.S. Department of Education. For more information contact ISAC, 1755 Lake Cook Road, Deerfield, IL 60015-5209, 1-800-899-ISAC.

### **F. Gaylord Cox/Pi Alpha Tau Award minus; & \$500.**

Requirements for this award are continuing student status with at least 24 hours earned at UIC, grade point average of 3.5 or above at UIC, recognized leadership in extracurricular campus activities. Preference given to member or descendants of former members of Pi Alpha Tau at UIC. For further information, write to William J. Hawes, 1915 Sunnydale Lane, Lisle, Illinois 60532.

**Judy Curry Award - \$1,000.** Applicants for this award must be an upper division (junior or senior) or graduate student. The award must be applied to an overseas academic project or study, with preference for a Sino/U.S. project or study.

**Fred Garcia Award - \$1,000.** Must be a continuing UIC student with at least sophomore status and be either: a) the daughter, son, or grandchild of an actively employed or retired Physical Plant employee who has/had worked at UIC Physical Plant for at least 5 years; or b) a full time student who has worked in Physical Plant for at least one year and who will continue to work in Physical Plant one year after being given the award. Applicants must have a grade point average of 3.70 or above. For further information, contact Janet Papajani, Physical Plant, (M/C 270) Physical Plant Building.

**FMC Award of Excellence - \$1,000.** A nonrenewable scholarship awarded to entering students, based upon academic merit and the student's potential for continued academic success.

**Grace Holt Memorial Award - \$500.** Applicants for this award must be African-American students with a 4.00 grade point average or above. Continuing students of all colleges and majors are eligible to apply. The award will be given to applicants who show evidence of an interest in African-American issues, as approached through the study of the arts, literature, history, education, politics, or social and economic conditions. For further information write to Mildred McGinnis, Department of African-American Studies, 1227 University Hall, M/C 069, (312) 996-2952.

**Judith L. Ikenberry Award - \$1,000.** Awarded to a student interested in creative writing or the arts. Applicants must have a strong academic record, a grade point average of 4.20 or higher, and demonstrated leadership ability. The award may be used for the UIC Study Abroad Program.

**Stanley O. Ikenberry Award - \$1,000.** Award must be used for study abroad. Applicants must have a strong academic record with a GPA of 4.20 or higher. For further information contact Study Abroad Office (M/C 227), 502 University Hall.

**Illinois General Assembly Scholarship.** Each member of the Illinois General Assembly may select one student from his or her district each year to receive a full-tuition award at the University. Students apply by contacting their legislators. The legislators establish their own criteria for the award.

**International Student Service Awards - \$1,000.** Applicants must be currently enrolled non-immigrant undergraduate or graduate students, be in good academic standing, and be able to provide relevant detailed information about volunteer service performed within the past year.

**Falk S. Johnson Award - \$350.** Awarded to a full-time student associated with the Tutorium in Intensive English.

**The Hilda Lopez-Arce Scholarship Award - \$500.** Named in honor of Hilda Lopez-Arce's contribution to UIC and Latinos throughout the State of Illinois, this scholarship is awarded



annually to a Latino(a) student of above average academic achievement with financial need. The student must also have demonstrated active involvement within the Latino community. For more information, contact the Latin American and Latino Studies Program, 1527 University Hall, M/C 219, (312) 996-2445.

**Mays/Dineen/Nelson Award - \$1,000.** Applicants for this award must be women continuing undergraduate students who have a 4.00 grade point average or higher.

**Merit Recognition Scholarship (MRS) - \$1,000.** MRS provides a one-time scholarship to qualified students who ranked in the top 5 percent of their Illinois high school class at the end of the seventh semester. Recipients must use the award within one year of high school graduation, and must be enrolled for undergraduate study at least half-time. MRS are not need-based. Availability of MRS awards is subject to state funding. For more information, contact ISAC, 1755 Lake Cook Road, Deerfield, IL 60015-5209, 1-800-899-ISAC.

**Wensel Morava Scholarships - \$100 to \$600.** For young men and women between 17 and 22 years of age and of good health and good character. Applicants must be members of a church or Sunday school and must agree not to join a fraternity or sorority during their first two years as recipients. Applicants also must agree to assist, as alumni, a student with his or her expenses at the University if they are financially able to do so. Preference is given to students of Czechoslovakian descent. Proof of Czechoslovakian descent must be submitted.

**National Achievement Scholarship Program for Outstanding African-American Students - \$1,000.** Five scholarships are awarded. Applicants must reside in the United States. Applications must be submitted during the fall months of the senior year. For information, write the National Merit Scholarship Corporation, 1 American Plaza, Evanston, Illinois 60201.

**LaVerne Noyes Scholarships.** Awarded to students who are direct descendants of American veterans of World War I. Scholarship covers tuition and fees.

**Patricia Nelson Memorial Award - \$1,000.** Applicants must be continuing UIC students with sophomore status or above, have at least one year's experience in a leadership capacity (as a volunteer) in a campus organization or committee, participates and demonstrates leadership in organizations and committees that offer educational and entertainment value to the campus community, and have a minimum UIC grade point average of 3.5. For further information, write to Deputy Associate Chancellor for Special Programs, 500 Reliable Building, 1033 West Van Buren Street (M/C 777).

**Jeri Parker Award - \$1,000.** Requirements for this award are status as a continuing freshman or sophomore woman and a grade point average of 4.00 at UIC. Preference is given to applicants with financial need. For further information write to Wildred Hughes, Gender and Women Studies Program, (M/C 360), 1022 Behavioral Science Building.

**President's Award - \$1,000.** Requirements for this award are a minimum 4.50 grade point average, advanced sophomore or junior standing with a minimum of 48 and a maximum of 89 hours earned at UIC by the end of the spring semester, and involvement in extracurricular campus and/or community activities. For further information write to Michael H. Ginsburg, Associate Vice Chancellor for Student Affairs and Enrollment Management, (M/C 600), 3010 Student Services Building.

**George M. Pullman Education Foundation Scholarships - \$500 to \$4,000.** Currently enrolled college students who wish to apply for a George M. Pullman Scholarship must be children or grandchildren of graduates of The Pullman Free School of Manual Training (Chicago, Illinois, 1915-1950).

Lineal descendants of Pullman Free School graduates who attend full time may write the foundation between January 1 and March 15 to request application forms for the following term. The request letter should include full name of the parent or grandparent who attended Pullman Free School and the name of the college or university the applicant plans to attend. The deadline for submitting completed application forms is May 1.

Awarded stipends vary from \$500-\$4,000 per academic year, depending on the recipient's remaining financial need. Stipends are renewable for full-time study through completion of the baccalaureate degree. Funding is not available for study in graduate or graduate professional school programs. Please address all letters of inquiry to: June Lois Campbell, Office Manager, George M. Pullman Educational Foundation, 5020 South Lake Shore Drive, Room 307, Chicago, Illinois 60615.

**Donald and Leah Riddle Prize - \$1,000.** Requirements for this prize are academic excellence, leadership, and graduating senior status (previous summer, fall, or current spring). For further information write to Dean Lansiné Kaba, Honors College, (M/C 204), 107 Burnham Hall.

**Sigma Lambda Beta Award - \$500.** Applicants for this award must be full-time students involved with the community, attained at least sophomore standing, have a minimum grade point average of 4.00, and demonstrate financial need.

**J. Watumull Awards - \$1,000.** Four awards. Applicants must be foreign (non-immigrant) students from India in any UIC college. They must have achieved academic excellence with a minimum 4.00 grade point average at UIC, earned at least 24 semester hours at UIC, and demonstrated proof of financial need.

## **College of Applied Health Sciences**

### **General**

**AHS Achievement Awards.** Presented at convocation by departments to outstanding students who are recognized for overall performance and who serve as leaders in the college.

**AHS Alumni Association Scholarship Awards.** Given to senior and/or graduate students to recognize academic excellence and professional promise.

**AHS Dean's Award.** Presented annually at the college convocation. The awardee is selected by the dean on the basis of student leadership, professional promise, and academic achievement.

**Van Doren Scholarship.** Awarded to undergraduate and graduate students in good standing who demonstrate financial need. First preference will be given to minority applicants. The W.E. Van Doren Scholarship Fund in the University of Illinois Foundation provides income for scholarships in the field of medicine and related healing arts.

### **Interdepartmental**

**Lillian B. Torrance Scholarship.** A gift from an alum and benefactor to be used as tuition and fee waivers for students in biomedical visualization, occupational therapy, and physical therapy, who have expressed an interest in rehabilitative activities or studies.



## Biomedical and Health Information Sciences

**Rita M. Finnegan Academic Achievement Award.** An annual award presented to a graduating senior in health information management who has excelled academically and who the faculty feel has the potential to contribute to the profession, particularly through scholarly endeavors.

## Human Nutrition

**Kris and Savitri K. Kamath Scholarship.** Kris and Savitri Kamath scholarship awarded for academic excellence of undergraduate and/or graduate students in human nutrition.

## Kinesiology

**Helen Barton Scholarship Awards.** Two Barton Scholarships are awarded each academic year in the School of Kinesiology. One award is made to an outstanding minority student in his/her sophomore, junior, or senior year. This award is based on academic excellence and is renewable in subsequent academic years. The second scholarship is to support a student research project that has been developed with a faculty mentor.

## Occupational Therapy

**Illinois Federation of Women's Clubs, Third District, Scholarship.** Awarded annually to a student in occupational therapy demonstrating achievement and financial need; preference given to students who live in the Third Congressional District, state of Illinois. Amount varies.

**Beatrice D. Wade Scholarship.** In honor of the first director of the curriculum in occupational therapy, awarded annually to the graduating student with an outstanding commitment to occupational therapy. Amount varies.

## College of Architecture and the Arts

### General

**Judith L. Ikenberry Award - \$1,000.** Applicants must be enrolled in the College of Architecture and the Arts and have a strong academic record. Preference given to students with financial need. For further information contact the Graduate College.

**Lydia E. Parker Bates Scholarships - Amount varies.** Awarded to students in architectural engineering, architecture, art, landscape architecture, and urban planning.

**Professor John E. Walley Memorial Scholarship- Amount varies.** Applicants for this award must be continuing undergraduate students. Selection is based on need and merit.

**Undergraduate Arts Talent Waivers.** Full tuition, no fees, awarded to students of architecture, art and design, or performing arts who show special promise of high professional ability. Contact the corresponding department for further information.

### Architecture

**AIA Chicago Chapter Student Loans - Amount varies.** Loans for seniors in architecture who show promise of high professional ability; with a limit of \$500 to any one person.

**AIA Chicago Chapter 4th Year Project Award - \$100.** Awarded for excellence in a thesis project in architecture.

**AIA Scholarship Program - \$200 to \$2,000.** Awarded to fourth- and fifth-year architecture students.

**AIA School Medal and Certificate of Merit.** Awarded to a graduating student in architecture for scholastic achievement, character, leadership, and promise of high professional ability.

**Alpha Rho Chi Medal of Merit.** Awarded to a graduating student in architecture for leadership, service, and promise of professional merit.

**Architects Club of Chicago Award - \$500.** Awarded to the upper division student winner of project competition.

**Architecture Student Scholarship- Amount varies.** Awarded to students in the School of Architecture. Supported by the Alumni and Friends of the School. Contact the School of Architecture for further information.

**Kwok Y. Cheung Architecture Award.** Awarded to students who are Asian, Asian-American, foreign-born, or American-born (in descending order of preference) and who are students in the UIC School of Architecture. Recipient chosen by the Director of the School of Architecture. Based on academic merit and, second, on need. Recipients will use scholarship for purpose of traveling and studying in a foreign country. Contact the School of Architecture for further information.

**Chicago Women in Architecture Award and Certificate - \$500.** Awarded to a female third- or fourth-year undergraduate student or Option 2 (graduate) student for outstanding academic record and exceptional professional promise. Contact the School of Architecture for further information.

**Leonard J. and Virginia M. Currie Award- Amount varies.** Awarded to students in the School of Architecture.

**Henry Dubin Memorial Award - \$100.** Awarded to a graduating student for outstanding scholarship in architectural design.

**John Entenza Memorial Award.** Awarded to a graduate student in the 3-2 Master of Architecture program who has demonstrated exceptional excellence.

**Mark Friedlander Award.** Awarded to the best student in Architecture 444. Student must be nominated by faculty.

**Nancy Gislason Memorial Scholarship - Amount varies.** Applicants must be continuing undergraduate students. Award is to be used specifically for travel to France. Contact the School of Architecture for further information.

**Helene Hano Morgante Fellowship- Amount varies.** Awarded to architecture graduate students enrolled in the first or second year of the Option 3 program and based on academic merit and financial need.

**The HLM Architectural Scholarship (Hansen Lind Meyer Award).** Awarded to an exemplary student in the School of Architecture.

**LaSalle Partners Fellowship in Architecture- Amount varies.** Awarded to architecture graduate students on the basis of academic merit and/or need.

**James and Ann Nagle Fellowship in Architecture- Amount varies.** Awarded to architecture graduate students, based on financial need and academic merit.

**Susan Nealey/FGM Award for Architectural Studies- Amount varies.** Awarded to undergraduate or graduate architecture students who are enrolled in their 3rd year or beyond. Contact the School of Architecture for further information.

**O'Donnell Wicklund Pigozzi & Peterson Architects, Inc. Prize.** Awarded to a fourth-year undergraduate student in recognition of an outstanding design produced during the academic year.

**Carol Phelan Fellowship- Amount varies.** Awarded to continuing female architecture graduate students based on merit and in recognition of outstanding promise in the field of Architecture. Prefer, but not limited to, non-traditional students.

**Pella Fellowship Prize- Amount varies.** Awarded to an undergraduate or graduate architecture student to support academic travel or tuition needs. Selection is made by the Director of the School of Architecture and a faculty committee.

***Frances Hill Pillsbury Scholarship- Amount varies.***

Awarded to a continuing undergraduate student in architecture, based on merit and need. Contact the School of Architecture for further information.

***Theodore R. Schlader Memorial Scholarships- \$300.***

Awarded to students in architecture, architectural engineering, electrical engineering, or other engineering fields.

***School of Architecture Citations.*** For distinguished achievement by students in the School of Architecture.

***Architecture Faculty Traveling Fellowship- Amount varies.***

Awarded to an undergraduate or graduate architecture student in his/her final year who demonstrates academic merit.

***Skidmore Owings and Merrill LLP/Architecture Alumni Association Fellowship- Amount varies.*** Fellowship recipients are chosen on the basis of academic, research and leadership achievement. The recipient of the award shall be a School of Architecture student at the undergraduate or graduate level. The number of fellowships to be awarded will be determined by the Dean of the College of Architecture and the Arts, or designee, and the Director of the School of Architecture. Contact the School of Architecture for further information.

***Adrian D. Smith Scholarship Award - Amount varies.***

Awarded to the School of Architecture's AIAS president if he or she has completed the 4th year of study and has attained a grade point average of 4.00 or above.

***Franklin R. Smith Memorial Award from the Women's Architectural League - Amount varies.*** Awarded to a graduating student with an exceptional planning project.

***Society of American Registered Architects Illinois Council Award - \$200.*** Awarded to an undergraduate student in architecture whose personal scholastic achievements exemplify character, perseverance, and promise of professional ability.

***Swanke, Hayden, Connell, Ltd. Award- Amount varies.***

Awarded to architecture graduate students who have demonstrated the potential for excellence in interior design.

***Synectics Group, Inc. Award- Amount varies.*** Awarded to architecture graduate students who have demonstrated the potential for excellence in interior design.

***Tigerman McCurry Fellowship in Architecture- Amount varies.*** Awarded to architecture graduate students based on academic merit and/or need.

***U. of I. Foundation, School of Architecture Alumni Scholarship Fund - Amount varies.*** Priority given to undergraduate students with a 4.00 cumulative grade point average, and to graduate students with a 4.50 cumulative grade point average.

***Leon Weisberg Memorial Scholarship - Amount varies.***

Awarded to one outstanding architecture student.

***Women's Architectural League Foundation Awards - \$800.***

Awarded to outstanding students in the last two years of the undergraduate curriculum.

## **Art and Design**

***James Axeman Memorial Award - \$100.*** Awarded to an undergraduate graphic design student who has demonstrated exceptional excellence.

***Mark Bryant Memorial Scholarship Prize.*** Awarded to an outstanding art student who shows special promise and high professional ability.

***Michael Glass Scholarship- \$500.*** Awarded to a graphic design student who has demonstrated exceptional excellence.

***Samuel W. and Blanche M. Koffler Scholarship.*** Scholarship recipients shall be undergraduate and/or graduate students in the

School of Art and Design who demonstrate academic excellence and need, with preference to students of Latino heritage. The Dean of the College of Architecture and the Arts, or designee, shall oversee the selection of scholarship recipients in consultation with the Director of the School of Art and Design, and a faculty committee created specifically to participate in the selection process. Please contact the College of Architecture and the Arts for further information.

***Richard and Catherine Hinkle Koppe Scholarship- Amount varies.*** Awarded to art and design undergraduate and graduate students.

***Robert Nickle Memorial Prize.*** Awarded to an outstanding art student for excellence of performance in communication design.

***John Richardson Sr. Award for Painting - \$250.*** Awarded to both undergraduate and graduate students. The award will be presented during the spring semester of each academic year for ten years, starting in Spring 1999. Contact the School of Art and Design for further information.

***School of Art and Design Citations.*** For distinguished achievement by students in the School of Art and Design.

***School of Art and Design Faculty Prizes.*** For excellence of performance by students in the School of Art and Design.

***Donald Slowik Memorial Award - \$500.*** Applicants for this award must be full-time (12 hour) undergraduate students with junior or senior standing, a declared art and design major, and a minimum grade point average of 4.00 in the major. Preference will be given to students who are innovative and risk-taking in two dimensions realm of painting, printmaking, drawing. Contact the School of Art and Design for further information.

***Howard and Donna Stone Scholarship- Amount varies.***

Awarded to art and design graduate students, based on academic excellence and need.

## **Art History**

***Art History Fellowship- Amount varies.*** Awarded to art history graduate students.

***Ross Edman Award.*** Applicant must be an undergraduate in Art History. This award is available for awards, grants, and loans. For further information contact Robert Bruegmann, Department of Art History, (M/C 201), 310 Henry Hall.

***John D. McNee Art History Scholarship- Amount varies.***

Awarded to an undergraduate art history student based on excellence of performance. Contact Robert Bruegmann, Department of Art History (M/C 201), 310 Henry Hall.

## **Performing Arts**

***Chicago Bar Association Entertainment Committee Music Award - \$1,000.*** Applicants for this award must be continuing students in the UIC music program. If the recipient plays a wind or percussion instrument, he or she should, during the entire year following, be a member of the Concert Band or Jazz Laboratory Ensemble. If the recipient is a singer, he or she should, during the entire year following, study with Professors Edel or Billingham, and should perform publicly. In the case of a tie, preference will be given to the applicant who is a music major. Selection is made by juried competition. Student will be honored at the Honors Day Convocation and will receive the award while enrolled at UIC on January 1 of the following year. For further information, contact William M. Kaplan, Department of Performing Arts, (M/C 255), L010 Education, Communications, and Social Work Building.

***Chicago Bar Association Entertainment Committee Playwriting Award - \$1,000.*** Applicants for this award must be continuing theatre students in good academic standing and

enrolled for at least 12 hours, and be undergraduates who have been in attendance at UIC for at least two semesters and who have at least two semesters remaining. Selection will be made by juried competition. For further information, contact Lou Salerni, Department of Performing Arts, (M/C 255), 1224 Education, Communications and Social Work Building.

**Chicago Bar Association Entertainment Committee Theatre Award - \$1,000.** Applicants for this award must be continuing students who are theatre majors in good academic standing and enrolled for at least 12 semester hours and who are undergraduates in attendance at UIC for at least two semesters and who have at least two semesters remaining. Selection is made by juried competition. For further information, contact William F. Raffeld, Department of Performing Arts, (M/C 255), L284 Education, Communications, and Social Work Building.

**Louis Frank Trust Piano Scholarship.** Awarded through competitive audition for excellence in piano performance. Contact the Department of Performing Arts for further information.

**Joy and Bob Harnack Memorial Music Award - \$700.** To assist an outstanding undergraduate music student to complete a degree program. Ordinarily given to a student completing the junior year. Active participation in music performance and instructional programs and activities sponsored by the UIC Music Division. For more information, contact William M. Kaplan, Department of Performing Arts, (M/C 255), L010 Education, Communications, and Social Work Building.

**Clifford Lipman Memorial Award - \$350.** Applicant must be a music major with at least two semesters remaining at UIC. Preference is given to students of either African-American or Hispanic descent. For further information, contact William M. Kaplan, Department of Performing Arts, (M/C 255), L010 Education, Communications and Social Work Building.

**Department of Performing Arts Award.** Awarded to an outstanding student majoring in music. For further information, contact William M. Kaplan, Department of Performing Arts, (M/C 255), L010 Education, Communications, and Social Work Building.

**William F. Raffeld Award - \$1,000.** Applicants for this award must be continuing undergraduate majors in theater demonstrating outstanding creativity and exceptional ability in the department's production program. Applicants must have a minimum 4.00 grade point average. For further information, contact William F. Raffeld, Department of Performing Arts, (M/C 255), L284 Education, Communications, and Social Work Building.

## **College of Business Administration**

### **General**

**Café Descartes - \$500.** Awarded to a non-traditional or first generation college student with junior or senior standing. The award is based on financial need. Applicants must demonstrate entrepreneurial spirit.

**Distinguished Alumni Scholarship - \$1000.** Awarded to a senior with a 4.00 grade point average. Applicants must be involved in CBA student organizations.

**Dorothy L. Huck Memorial Scholarship - \$1,000.** Awarded to graduates of Sullivan High School who have an ACT score of 23 as a freshman or a grade point average of 3.75 as a UIC student. Students must be business or education majors.

**Friends of Mexico Scholarship.** Full tuition and fees awarded to a full time beginning freshman of Mexican descent with an

ACT score of 22 or higher and who participates in community service activities.

**Michael Bitsas Memorial Scholarship- \$500.** Awarded to full time marketing or management majors, with a preference given to students concentrating in international business and have a GPA of 3.5.

**Polk Bros. Scholarship - \$2,500.** A maximum of \$2,500 may be awarded for the academic year to junior-level students, recognized as members of under-represented minority groups at UIC.

**Ralph L. Westfall - \$500.** Applicants for this award must be freshmen with a minimum grade point average of 4.00. Preference is given to applicants where financial need is indicated. For further information, write to Donna Nowacki, College of Business Administration (M/C 065), 1118 University Hall.

### **Interdepartmental**

**Eric Fors Endowed Award - \$500 (amount may vary).**

Awarded to a full-time male student with junior or senior standing, majoring in any area of study in CBA except accounting. Minimum 3.75 grade point average. Preference is given to students of Native American or Hispanic descent.

**Marilyn Fors Memorial Award - \$500 (amount may vary).**

Awarded to a full-time female student with junior or senior standing, majoring in any area of study in CBA except accounting. Minimum 3.75 grade point average. Preference is given to students of Native American, Hispanic, or African-American descent.

**Gerald Lance Scholarship - \$1,000.** One \$1,000 scholarship awarded to a junior or senior male not majoring in accounting.

**Viola Lance Scholarship - \$1,000.** One \$1,000 scholarship awarded to a junior or senior female not majoring in accounting.

### **Accounting**

**American Express Tax and Business Awards - \$1,000.** For students majoring in accounting. Recipients must show evidence of outstanding ability and potential. Personal financial need is not a factor, and there are no restrictions as to age, race, creed, color, sex, etc. The student should have two remaining semesters before graduation. Two annual scholarships at \$1,000 each.

**Baygood, Telpner & Rose Scholarship - \$1000.** For students majoring in accounting. Recipients must show evidence of outstanding ability and potential. One annual scholarship.

**Becker CPA Review Scholarship.** Two awards of free tuition for the CPA review course. Accounting students in their senior year of study are eligible. The recipients will be chosen based on academic merit.

**Gleeson, Sklar, Sawyers & Cumpata LLP - \$1000.** For students majoring in accounting. Recipient must show evidence of outstanding ability and potential. Personal financial need is not a factor, and there are no restrictions as to age, race, creed, color, sex, etc. One annual scholarship.

**Josephine Margraff Memorial Award - \$1,000.** Applicants for this award must be female UIC students who have completed at least three college-level accounting courses, with plans to enter the accounting profession, and demonstrated high academic achievement as well as a commitment to others. For further information, write to Mary Jo Bohr, 247 East Chestnut, Apartment 1201, Chicago, Illinois 60611.

**Jerry Weiss Memorial Scholarships - \$1,000.** Undergraduate accounting students in their junior or senior year of study are eligible. Preference will be given to students interested in



pursuing careers in public accounting. The recipients will be chosen on academic merit and financial need with preference to student(s) who demonstrate well-rounded personal characteristics. Two awards given of \$1000 each.

### **Economics**

**The G. Bassett, B. Chiswick, R. Kosobud, H. Stokes Award - \$1,000.** Awarded annually to either an undergraduate or graduate student for excellence in studies in economics.

**Winifred Geldard Memorial Award.** This prize is in memory of the late economics professor, Winifred Geldard, and is given to a graduating economics major who has excelled academically. The prize carries a monetary award; the amount varies each year.

### **Information and Decision Sciences**

**Trace-Derrick Award - \$1,000.** Applicants for this award must have junior or senior status in the College of Business Administration, be majoring in information and decision sciences, and be academically outstanding. For further information, write to Professor Sid Bhattacharyya, Information and Decision Sciences, (M/C 294), 2420 University Hall, 601 South Morgan Street.

### **College of Education**

**David A. DeBolt Teacher Shortage Scholarship Program - up to \$5,000.** DeBolt Teacher Shortage Scholarships are awarded to academically talented students at the sophomore level or above, with a priority given to minority students, who plan to pursue careers as public preschool, elementary and secondary school teachers in designated Teacher Shortage Disciplines in Illinois. The scholarships are applicable only toward tuition and fees and room and board charges or commuter allowance and must not exceed a maximum of \$5,000. Recipients must enroll at least half time and must fulfill a teaching commitment or repay funds received plus interest. For further information, contact ISAC, 1755 Lake Cook Road, Deerfield, IL 60015-5209, 1-800-899-ISAC.

**Minority Teachers of Illinois Scholarship (MTI) - up to \$5,000.** This scholarship provides up to \$5,000 per year to assist individuals of African-American/Black, Hispanic, Native American, or Asian-American origin who plan to become teachers at the pre-school, elementary, or secondary level. Recipients must be enrolled as full-time undergraduates, at the sophomore level or above, and must sign a teaching commitment to teach one year for each year assistance is received. MTI recipients must teach at an Illinois pre-school, elementary, or secondary school where no less than 30 percent of those enrolled are African-American/Black, Hispanic, Asian-American or Native American minority students. If the teaching commitment is not fulfilled, the scholarship converts to a loan and the entire amount, plus interest, must be repaid. For more information, contact ISAC, 1755 Lake Cook Road, Deerfield, IL 60015-5209, 1-800-899-ISAC.

### **College of Engineering**

More information about the scholarships listed below can be obtained from room 820 of the Science and Engineering Offices (SEO) Building.

#### **General**

**Paul M. Chung Award - \$1000.** Applicant must be an engineering student who has completed Math 210, Physics 142 and plans on degree completion at UIC. Grade point average must be at least 4.50 for 24 semester hours at UIC. Additional

consideration given for honors received, extra-curricular activities, and employment history.

**Deans and Donors 2003 Awards - \$500 minimum.** Donors of these awards will specify the department, program, and/or major required, and the amounts of awards. (*For 2003 only.*)

**Dean's Scholarship - \$1,000 to \$5,000.** The number of awards varies, and they are all renewable for four years. It is available to entering full-time freshmen ONLY. A minimum ACT score of 28 (SAT of 1240) and rank in top 15% of high school class is required. Engineering GPPA students are automatically considered.

**FMC Awards of Excellence - \$1,000** Applicants must be entering freshmen, with outstanding scholarship and the promise of continued scholarly achievement in the college that the student enters. Fall semester grades are reviewed prior to College of Engineering Awards Committee nomination.

**Joseph J. Galassini Memorial Award - \$500.** Applicants for this award must be members of Tau Beta Pi with junior or senior standing, a minimum 4.30 grade point average, and at least 15 hours at UIC with outstanding ability in their field. They must have attained overall achievement on campus or in the community.

**Hispanic American Construction Industry Association - \$2,500** Applicants for these scholarships must be enrolled in an accredited college or university engineering curriculum, and interested in a career in the construction industry.

**Irene N. Jones Estate Scholarship Fund Awards - \$1,500** Applicants must reside in Cook or Will counties of Illinois, be worthy, deserving student(s), and show financial need.

**Olive and Alfred Kuehn Scholarship.** Awarded to students in the College of Engineering, civil engineering majors preferred. Eligibility determined by superior academic performance and financial need.

**Wilfred F. and Ruth Davison Langelier Scholarship - \$3,000.** Applicants must be full-time students, whose main field of study is Sanitary/Environmental Engineering, principally concerned with the area of water and waste water treatment and environmental water quality management and control. Seniors who will graduate before the end of fall semester 2003 are not eligible to apply. Completion of 6 hours of advanced courses in environmental technology (chemistry, physics, engineering, biology, etc.) by the time the award is claimed is required. Involvement in environmentally related research projects and organizations desirable.

**B.J. Merkle Memorial Award - \$1,000.** Applicant should be a continuing student who has a minimum 4.00 grade point average and who has demonstrated exceptional ability in his/her field and financial need. Preference is given to a student with a strong interest in liberal arts.

**Minority Engineering Program Scholarships.** The Minority Engineering Program awards scholarships the fall and spring semesters. These scholarships are the result of generous contributions from engineering companies and foundations. Information may be obtained from the director of the Minority Engineering Program.

**Francis C. Moon Endowed Award.** The initial award will be made to a freshman or sophomore student in any engineering discipline with at least 30 hours of UIC credit. The scholarship is renewable until graduation provided the recipient continues to meet all of the requirements.



**Norman Parker Award - \$2,000.** Requirements for this award are junior standing, leadership qualities, academic excellence, and constructive activity in community affairs.

**Roy Howard Pollack Scholarship- \$1,500.** These scholarships are based on merit, scholarship, service, and financial need.

**The Society of Women Engineers (SWE) Scholarship Program.** Applicants must be female freshman or upperclassman, studying engineering full-time at an ABET accredited institution, with a 4.50 GPA minimum for freshman, and a 4.00 GPA minimum for sophomore, junior, senior, and graduate students. Applicants cannot be current recipients of a renewable SWE scholarship, and must be US citizens or permanent residents. Additional information and application forms are available at SWE website: <http://www.SWE.org>.

### **Interdepartmental**

**Departments of Computer Science and Electrical and Computer Engineering - \$200.** This award honors the memory of the late Henry A. Kaczmarek and will be given to a needy student of Polish heritage, with a minimum UIC and ECE/ CS GPA of 4.50.

### **Civil and Materials Engineering**

**Alfred Benesch and Company Award - \$1,000.** For juniors and seniors in civil engineering. Based on academic merit. One award annually.

**Robert Bryant Scholarship Award- \$500.** Applicants must be enrolled as full-time undergraduate students, have a 4.00 GPA minimum, with 30 semester hours of credit earned at UIC, and at least 12 semester hours of civil engineering credit to earn. Applicants must be registered in at least one advanced structural analysis or design course beyond the general civil engineering course requirements, and must submit a short essay, entitled, "Why I Want to be a Structural Engineer." See Professor Ansari, Head, Civil and Materials Engineering.

### **Mechanical Engineering**

**Grant Albert Award- \$750.** Applicants for this award must be undergraduate mechanical/industrial engineering majors, with at least 30 hours of completed UIC coursework, and a GPA not less than 4.00. Completion of at least one 300-level course in the UIC Department of Mechanical and Industrial Engineering also is required.

**Harold A. Simon Memorial Award - \$500.** Applicants for this award must be undergraduate students entering the senior year majoring in mechanical engineering. The award is based on merit. In the event of candidates of equal merit, additional consideration may be extended to persons who have demonstrated superior abilities in nonacademic areas both within and outside UIC.

### **College of Liberal Arts and Sciences**

#### **General**

**Hassan Mustafa Abdallah Memorial Scholarship- \$500.** This need-based scholarship recognizing academic achievement is awarded annually to UIC undergraduate students of Arab descent with preference given to Arab-Americans. Applicants must exhibit a strong scholastic achievement and carry a grade point average of 4.00 (A=5.00). Applicants must provide a narrative describing their record of community service and/or community development. The award is applied to tuition and fees. For more information, contact the LAS Office of Student

Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Peter James Barbato Scholarship- \$500.** This scholarship is awarded annually to qualified UIC undergraduates who are in good academic standing and who have completed a minimum of 15 credit hours at UIC at the end of the semester prior to the one when the scholarship is awarded. Applicants must reside in the community surrounding the university with preference given to residency in the Near West Side, Tri-Taylor, South Loop, and West Loop Gate neighborhoods. The award is applied to tuition and fees. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Robert Corley Memorial Scholarship - \$500.** Awarded annually to qualified LAS undergraduate and graduate students in recognition of academic achievement. Preference is given to students majoring in the humanities or social sciences who have completed a minimum of 60 credit hours at UIC. The award is applied to tuition and fees. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Raquel M. and Alfredo Garza Memorial Scholarship - \$500.** This need-based scholarship, recognizing academic achievement, is awarded annually to qualified LAS sophomores of Mexican-American descent who are entering their junior year of study. Applicants must have attended UIC for a minimum of 30 semester hours and must carry a minimum grade point average of 4.00 (A .00). The award is applied to tuition and fees. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Peter P. Klassen Memorial Award - \$1000.** Applicants for this award must be upper-division students in Liberal Arts and Sciences, with at least a 4.00 grade point average. In case of candidates of equal merit, preference will be given to a continuing student. For further information, contact Professor James L. Norr, Department of Sociology, 4112B Behavioral Science Building, M/C 312, (312) 996-5373.

**Olive and Alfred Kuehn Scholarship.** A renewable scholarship awarded to female students in the College of Liberal Arts and Sciences. Eligibility determined by superior academic performance and financial need. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Adam Kuhn Scholarship - \$1000.** The Adam Kuhn Scholarship is a need-based scholarship awarded annually to LAS undergraduates majoring in a pre-medicine curriculum who will be in their senior year of study when the scholarship is awarded. Applicants must carry a minimum grade point average of 4.00 (A=5.00). Preference is given to Illinois residents and students with financial need. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**LAS Alumni Association Merit Award - \$500.** This annual award of two scholarships was initiated and is underwritten by the UIC LAS Alumni Association, a subsidiary of the University of Illinois Alumni Association. Both current undergraduates and returning alumni are eligible to apply for the award, which is based on excellence in community service and involvement and a strong academic record. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Jeff E. Lewis Scholarship - \$500.** The Jeff E. Lewis Scholarship is awarded annually to UIC undergraduate students who have demonstrated exceptional academic excellence. Applicants must carry a minimum grade point average of 4.50 (A=5.00). The award is applied to tuition and fees. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**A&T Philia Foundation Scholarships - \$1,500.** The A&T Philia Foundation Scholarships are need-based scholarships awarded annually to full-time LAS undergraduates majoring in an LAS curriculum. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**The Bernard Shaw Prize - \$10,000.** Named after the distinguished journalist, former CNN anchor and alumnus, the Shaw Prize is awarded annually to qualified undergraduates enrolled in the College of Liberal Arts and Sciences. Applicants must have demonstrated an outstanding record of academic accomplishments, along with exemplary leadership and citizenship while attending UIC during at least a two-year period. Applicants must major in communication, English, or history and carry a minimum grade point average of 4.00 (A=5.00). Preference is given to minorities. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Eugene and Mary Tappero Scholarship - \$750.** The Eugene and Mary Tappero Scholarship is a need-based scholarship awarded to LAS undergraduates majoring in the liberal arts who will have completed 60 hours of study at UIC at the end of the semester prior to the one when the scholarship is awarded. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Vietnam Veterans Memorial Fund Scholarship - \$500.** This award was established to assist the children of veterans in general. It is awarded annually to full-time or part-time UIC undergraduate students campus-wide who are in good academic standing. Applicants must supply a narrative describing their career goals and why it is important for them to receive this scholarship. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Patricia S. Wager Scholarship - \$500.** The Patricia S. Wager Scholarship is a need-based scholarship awarded to LAS undergraduates who are graduates of junior colleges (associates degree) and who are majoring in an LAS curriculum. For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

### **Interdepartmental**

**Merrill C. Kenna and Brent D. Nicholson Scholarship - \$500.** Given in the name of Merrill C. Kenna and his late life-partner, Brent D. Nicholson, this scholarship is awarded to African-American undergraduates majoring in psychology, political science or gender studies. Applicants must provide a narrative describing their commitment to bettering their neighborhood, city or country through volunteer activities. For more information, contact the LAS Office of Student Affairs, 309 University Hall, M/C 228, (312) 996-3396.

**Donald and Patricia Langenberg Award - \$1,000.** Applicants for this award must be undergraduate women or minority students majoring in mathematics, statistics, or the natural sciences and intending to pursue graduate study in the field. Preference will be given to underrepresented minority students

and non-seniors. For further information, contact the Honors College, 106 Burnham Hall, M/C 204, (312) 996-5153.

**PNA-Hugh Hill Scholarship - \$1,250.** Established by the Polish National Alliance to honor the longtime Chicago journalist and political reporter, the Hugh Hill Scholarship is awarded annually to LAS upperclassmen (juniors and seniors) majoring in English or communication. Applicants must have related internship course work in electronic and/or print media (e.g., enrollment in the LAS Co-operative Education Internship Program interning at a Chicago area television or radio station, magazine or newspaper). Applicants must carry a minimum grade point average of 4.00 (A = 5.00). For more information, contact the LAS Office of Student Academic Affairs, 309 University Hall, M/C 228, (312) 996-3366.

**Edward G. Rietz and Stanley K. Shapiro Award in Biochemistry - \$500.** Given to a graduating biochemistry major who graduates with highest distinction and completes an exceptional research project. A joint biology-chemistry committee will select the awardee. All eligible students are automatically considered for the award. Interested students are advised to make certain they are properly declared in the program in biochemistry. For more information, contact Stephen Kelso, Department of Biological Science, 4294A Science and Engineering Laboratories, M/C 066, (312) 996-2787; or the Awards Committee, Department of Chemistry, 4500 Science and Engineering South, M/C 111, (312) 996-3161.

### **Anthropology**

**Clarice J. Dornier Award - \$500.** This award was established in memory of a former UIC anthropology student. It is given annually to a continuing student in anthropology who carries a minimum grade point average of 4.0 and who is a graduating anthropology BA going on to do MA work in the UIC Anthropology Department. For more information, contact James L. Phillips, 3118 Behavioral Sciences Building, M/C 027, (312) 413-3582.

**Joel Rothschild Memorial Award - \$1,000.** Awarded to an undergraduate or graduate geography student in the Department of Anthropology. The award is based on scholarship as well as extracurricular activities within the discipline. For more information, contact John Monaghan, Director of Undergraduate Studies in Geography, Department of Anthropology, 2138B Behavioral Sciences Building, M/C 027, (312) 996-3116.

### **Biological Sciences**

**Elmer Hadley Award - \$200.** Given to a graduating senior in biological sciences with high academic achievement who has completed an outstanding Biological Sciences 399 research project in the area of ecology, evolution, or conservation biology. For more information, contact John Lussenhop, Department of Biological Sciences, 1014 Science and Engineering Laboratories (M/C 066), (312) 996-4557.

**Louis Pasteur Award - \$500.** To be eligible, a graduating biological sciences major must have a minimum grade point average of 4.70 (A = 5.00) in the major, complete an exceptional research project and defend it before a subcommittee of the undergraduate program committee. For further information, contact Stephen Kelso, Department of Biological Sciences (M/C 066), 4294A Science and Engineering Laboratories, (312) 996-2787.

**Mark A. Wyatt Award - \$200.** Awarded to a pre-medicine biological sciences major who is a member of the Honors College and has junior standing. The awardee is selected jointly by the

Department of Biological Sciences and the Honors College. For further information, contact Howard Buhse, Department of Biological Sciences, 4100A Science and Engineering Laboratories, M/C 066, (312) 996-2997.

## **Chemistry**

**Benjamin B. Freud Scholarship Award - \$500.** For scientific excellence. Awarded to a continuing student in one of the undergraduate chemistry programs (B.A., B.S., B.S. in the Teaching of Chemistry) or in the B.S. in Biochemistry program or in a preprofessional program in which one of these degrees is planned. Student must be a U.S. citizen and have completed or at least begun the junior-level sequence in physical chemistry. All eligible students are automatically considered for the award. Interested students are advised to make certain they are properly declared in one of the listed programs.

**General Chemistry Awards.** The Department of Chemistry bestows three General Chemistry Awards (copies of the Handbook of Chemistry and Physics) annually to outstanding students completing one of the sequences in general chemistry that term or during the preceding fall or summer term. All eligible students are automatically considered.

**Leonard Kotin Award in Physical Chemistry - \$1000.** This award is given annually during the spring term to an undergraduate student of exceptional ability in science and mathematics who has demonstrated an excellence in understanding the concepts of physical chemistry. For further information, contact the Awards Committee, Department of Chemistry, 4500 Science and Engineering South, M/C 111, (312) 996-3161.

**Merck Award.** The Department of Chemistry bestows the Merck Award (a copy of the Merck Index) annually during the spring term to an outstanding student completing the sequence in organic chemistry that term or during the preceding fall or summer term. All eligible students are automatically considered.

**Norman Nachtrieb Memorial Award - \$1,500.** Applicants for this award must be continuing sophomores, juniors, or seniors majoring in chemistry (BA or BS), biochemistry, or teacher education in chemistry, with a 4.00 grade point average and must show scientific promise. For more information, contact the Awards Committee, Department of Chemistry, M/C 111, 4500 Science and Engineering South, (312) 996-3161.

**Edward G. Rietz Award in Chemistry - \$500.** Given to the outstanding graduating chemistry major during the current year (previous summer, fall or current spring semester) in the B.A. in Chemistry, B.S. in Chemistry, or the B.S. in the Teaching of Chemistry program. All eligible students are automatically considered for the award. Interested students are advised to make certain they are properly declared in one of the listed programs.

## **Classics and Mediterranean Studies**

**Tracy Prizes.** Awarded annually since 1984 to recognize both the accomplishments of outstanding classics majors who are graduating, as well as excellence at the second-year level of Ancient Greek, Latin, Modern Greek, Hebrew, and Arabic. These awards are named in honor of one of the department's founding members, Rev. Theodore J. Tracy, S.J. For more information, contact the Director of Undergraduate Studies, Department of Classics and Mediterranean Studies, 1204 University Hall, M/C 129, (312) 996-3281.

## **Criminal Justice**

**Chicago Bar Association Entertainment Committee Criminal Justice Undergraduate Award - \$750.** Applicants for this award must be UIC undergraduate criminal justice majors who have been admitted to or are enrolled in a UIC graduate program in criminal justice. This award is to be used to pay the costs of pursuing a graduate degree in criminal justice. Recognition will be given to students with a record of involvement and participation in theatrical and musical activities on campus or in their communities. For more information, contact Donna Dorney, Administrative Assistant, Department of Criminal Justice, 4010 Behavioral Sciences Building, M/C 141, (312) 413-3030.

## **Earth and Environmental Sciences**

**Undergraduate Achievement Award - \$200.** The Undergraduate Achievement Award is given annually to the outstanding undergraduate major in Earth and Environmental Sciences (EAES). The recipient of the award is selected by the department faculty from all junior and senior EAES majors. For more information, contact the Director of Undergraduate Studies, Earth and Environmental Sciences, 2458 SES, M/C 186, (312) 996-3155.

## **English**

**Raymond and Wilma Campion Award.** Awarded annually to an outstanding English major who is a graduate of a Chicago public high school. Applicants must have completed at least 30 but not more than 90 semester hours at UIC and have a minimum grade point average of 3.00. Preference is given to minority students demonstrating financial need. For more information, contact the Director of Undergraduate Studies, Department of English, 2027 University Hall, M/C 162, (312) 413-2237.

**John and Jeanne Newton Scholarship.** Awarded annually to an outstanding English major who is a graduate of a Chicago public high school. Applicants must have completed at least 30 but not more than 90 semester hours at UIC and have a minimum grade point average of 3.00 (A = 5.00). For more information, contact the Director of Undergraduate Studies, Department of English, 2027 University Hall, M/C 162, (312) 413-2237.

**Ernest C. Van Keuren Award.** An award for excellence in English presented annually by the English Department to its outstanding graduating senior in memory of Professor Ernest Van Keuren, a member of the original professorial staff of the University of Illinois Undergraduate Division when it was located at Navy Pier and Head of Humanities from 1947 until his death in 1953. Professor Van Keuren was a dedicated teacher who served as President of the Chicago English Association and who was twice President of the American Association of University Professors. Candidates for this award are nominated by the faculty.

**Woods-Lindley Prize - \$500.** Awarded annually to an outstanding English major concentrating in teacher education in English who has demonstrated superior teaching in supervised student teaching. This prize is a gift of Daniel A. Lindley, Jr., former Associate Professor of English and Director of English Education in the UIC English Department from 1972 to 1991, and his wife, Lucia Woods Lindley. For more information, contact the Director of Undergraduate Studies, Department of English, 2027 University Hall, M/C 162, (312) 413-2200.



## Gender and Women's Studies

**Mary B. Bialas Scholarship in Honor of Margaret (Daisy) Davies - \$500.** This scholarship is awarded annually to a Gender and Women's Studies major or minor, or a student who has taken GWS classes. Applicants must demonstrate a commitment to women and/or children's issues and have actively worked to improve the lives of women and children. For more information, contact the Director of Undergraduate Studies, Gender and Women's Studies Program, 3102 Behavioral Sciences Building, M/C 360, (312) 996-2441.

**Gender and Women's Studies Undergraduate Prize - \$100.** This merit-based prize is awarded annually to one outstanding GWS minor. Applicants must demonstrate academic excellence and a commitment to feminist activism on campus and/or in the community. To be eligible, students must have completed (or are currently completing) the requirements for the Minor in Gender and Women's Studies and must have a grade point average of 3.50 (A=5.00) or higher. Applicants should submit two letters of recommendation and a personal essay. For more information, contact the Director of Undergraduate Studies, Gender and Women's Studies Program, 3102 Behavioral Sciences Building, M/C 360, (312) 996-2441.

## History

**Gordon Lee Goodman Award for Distinction in Undergraduate Studies in History.** Friends and relatives of the late Gordon Lee Goodman, associate professor of history at the University of Illinois at Chicago, have established a fund in his memory to support excellence in the undergraduate program in history. Annually, the Department of History designates at least one and not more than four Gordon Lee Goodman Scholars in History. The student must have attained or be about to attain senior standing, must be a major in history, and must have demonstrated excellent scholarship. A Gordon Lee Goodman Scholar in History receives a stipend that is paid from the income of the memorial fund. The Department of History maintains a permanent record of all Gordon Lee Goodman Scholars in History and identifies students so named in all appropriate University announcements and publications. For further information, contact Richard Levy, Director of Undergraduate Studies in History, 913 University Hall M/C 198, (312) 996-3141.

**The History of Poland Scholarship - \$10,000.** This award is given annually to a graduate student or undergraduate majoring in history who has taken or is taking course work related to the history of Poland and who has at least a 4.00 grade point average. This scholarship carries a tuition and fee waiver. For more information, contact Richard Levy, Director of Undergraduate Studies in History, 913 University Hall, M/C 198, (312) 996-3141.

## Latin American and Latino Studies

**Latin American and Latino Studies Program Travel Award.** This travel award is available for Latin American and Latino Studies majors. Undergraduates are eligible for up to \$100.00 per year to subsidize travel to conferences and other academic events related to the fields of Latin American and Latino Studies. For more information, contact Laura Lopez, Department of Latin American and Latino Studies, M/C 219, (312) 996-2445.

## Mathematics, Statistics, and Computer Science

**Kathy Hill Cawthon Memorial Award - \$500.** Applicants for this award must be women students, with at least sophomore standing, majoring in mathematics. Preferences will be given to continuing students. For further information contact the Department of Mathematics, Statistics, and Computer Science, 322 Science and Engineering Offices, M/C 249, (312) 996-3041.

**Department of Mathematics, Statistics, and Computer Science - \$500.** This award has been given by the department since 1984 to assist outstanding, worthy, and needy students. For further information, contact the Department of Mathematics, Statistics and Computer Science, 322 Science and Engineering Offices, M/C 249, (312) 996-3041.

**Herb Alexander Award - \$500.** This award was created in 2000 to assist outstanding, worthy and needy students in Mathematics, Statistics and Computer Science. Preference is given to continuing students. For more information, contact the Department of Mathematics, Statistics and Computer Science, 322 Science and Engineering Offices, M/C 249, (312) 996-3041.

**Victor Twersky Memorial Scholarship - \$800.** Awarded to undergraduates and graduates in applied mathematics in the Department of Mathematics, Statistics and Computer Science. Eligible undergraduate students must have completed 60 or more credit hours at UIC and be enrolled in applied mathematics courses. For more information, contact the Department of Mathematics, Statistics and Computer Science, 322 Science and Engineering Offices, M/C 249, (312) 996-3041.

## Philosophy

**The Dorothy Grover Award - \$200.** This award is given annually by the Chair of the Department of Philosophy to an undergraduate at UIC who is in good standing and who, if not a major in philosophy, is at least taking some philosophy classes. For further information, contact the Department of Philosophy, 1423 University Hall, M/C 267, (312) 996-3022.

## Physics

**Larry L. Abels Memorial Scholarship - \$1000.** This award honors the memory of Professor Larry Abels, a former member of the Physics Department, and is awarded annually to the graduating senior in physics who has the highest grade point average and earns Departmental Distinction or higher. For more information, contact the Department of Physics, 2236 Science and Engineering South, M/C 273, (312) 996-3400.

**Chicago Circle Physics Scholarship - \$150.** This fund was established in Spring 1997 to enhance the educational experience of undergraduate studies in physics and is given at the end of both fall and spring semesters to the student in Introductory Physics I who has the highest achievement in the class. For more information, contact the Department of Physics, 2236 SES, M/C 273, (312) 996-3400.

**Inder P. Batra Physics Undergraduate Award.** This award was established in Spring 2003 by Inder P. Batra, Professor and Head of the Physics Department, who wants to see students enjoy the beauty and creativity of Physics. The award is given at the end of the Fall and Spring semesters to recognize the achievements of undergraduate students based on their performance in Physics 141. For more information, contact the Physics Department, 2236 SES, M/C 273, (312) 996-3400.

**Ogden Livermore Scholarship - \$150.** This scholarship fund was established in memory of Ogden Livermore who was Assistant Professor of Physics at the University of Illinois Chicago (Navy Pier) for 25 years, until his retirement in 1967.



The award is given at the end of both the fall and spring semesters to the student in Physics 244 who has the highest achievement in the class. For further information, contact the Department of Physics, 2236 Science and Engineering South, M/C 273, (312) 996-3400.

**Seymour Margulies Scholarship - \$150.** This fund was established to honor the memory of Professor Seymour Margulies, who shared his passion for science with UIC students for nearly three decades. The award is designed to enhance the educational experience of undergraduate students majoring in physics and is given at the end of both fall and spring semesters to the student in both Physics 215 and 401 who has the highest achievement in the class. For further information, contact the Department of Physics, 2236 Science and Engineering South, M/C 273, (312) 996-3400.

**Physics' Head Scholarship - \$1000.** This one-year scholarship is awarded every fall and spring to an entering freshman physics major. Students must have a minimum ACT score of 22 and must provide a one-page narrative describing why they have chosen Physics as a career goal to the Department Head no later than the 6th week of the semester. For further information, contact the Department of Physics, 2236 Science and Engineering South, M/C 273, (312) 996-3400.

## Political Science

**Michael Arrington Scholarships - \$1000.** Two Michael Arrington Scholarships are awarded annually to juniors in political science with outstanding scholarly records and who carry a minimum 4.40 grade point average in political science courses. For more information, contact Marla Lane, Undergraduate Secretary of Political Science, M/C 276, (312) 996-3105.

**Ron Brown Memorial Scholarship - \$750.** Named in honor of Ron Brown, former U.S. Secretary of Commerce, this scholarship is awarded annually to a student with a minimum grade point average in political science of 4.00 who has demonstrated interest in a career in public service. For more information, contact Marla Lane, Undergraduate Secretary of Political Science, M/C 276, (312) 996-3105.

**John Echols Scholarship Award - \$400.** This scholarship is awarded annually either for the best paper submitted to the Department of Political Science in the field of comparative politics, or for an outstanding political science major participating in Model United Nations. For more information, contact Marla Lane, Undergraduate Secretary of Political Science, M/C 276, (312) 996-3105.

**Milton Rakove Scholarship Award - \$500.** A scholarship awarded annually to an outstanding undergraduate student at UIC who exemplifies the political and academic interests and ideals of the late Milton Rakove, a long time member of the faculty. For more information, contact Marla Lane, Undergraduate Secretary of Political Science, M/C 276, (312) 996-3105.

## Psychology

**Nancy Hirschberg Memorial Prize for Undergraduate Excellence in Psychology.** As a memorial to Professor Nancy Hirschberg, the Department of Psychology awards an annual prize for the best paper or report written by an undergraduate in Psychology 397, 399, or in one of the laboratory courses. Nominations for the Hirschberg Prize are made by faculty members. Eligible papers should be the work of one undergraduate (that is, projects planned and/or carried out by groups of students are not eligible) and may be either reports of

empirical research or integrative reviews of previously published research. For more information, contact the Office of Undergraduate Studies in Psychology, 1028 Behavioral Sciences Building, M/C 285, (312) 413-2147.

**Psi Chi Scholarship- \$500.** The Psi Chi Scholarship is awarded each Spring to an undergraduate psychology major. To be eligible, students must be full-time UIC students, declared Psychology majors with at least 12 hours in Psychology, and carry a cumulative GPA of at least 4.0 (A=5.00). Applications are available from the Psychology Undergraduate Advising Office. For more information, contact the Advisor of Undergraduate Studies in Psychology, 1028 Behavioral Sciences Building, M/C 285, (312) 413-2147.

## Sociology

**Peter P. Klassen Sociology Prize - \$50.** Awarded to the student who writes the best paper in an annual student paper competition. This prize is given in honor of the memory of Professor Peter P. Klassen who served as the first head of the Department of Sociology at UIC. Specific details of the award may be obtained by consulting the department. For more information, contact Professor James L. Norr, Department of Sociology, 4112B Behavioral Science Building, M/C 312, (312) 996-5373.

## Spanish, French, Italian & Portuguese

**Violet Bergquist Award.** Applicants for this award must be students in Spanish and/or Italian who are in teacher education and have a minimum of 4.00 overall grade point average, a 4.50 foreign language grade point average, and at least junior standing. For further information, contact Lucille Braun, Assistant Dean, 304 University Hall, M/C 228, (312) 413-2515.

## College of Nursing

**Annual Fund.** Full tuition and fees awards for undergraduate and graduate students. Number of awards varies from year to year.

**Boothroyd Foundation Scholarships.** Scholarships awarded to undergraduate students based on academic merit.

**Emily Cardew Awards.** For juniors or seniors with high scholastic achievement.

**Lisa Corsini Scholarship.** For a junior student whose legal residence is Illinois or the country of Italy. Preference will be given to students who demonstrate a passion for nursing and who demonstrate financial need primarily and academic merit secondarily. The award will be given to the student for two consecutive years as long as they remain enrolled in the College and in good academic standing.

**Dorothy Dethloff Scholarship.** A scholarship for an undergraduate junior or senior with above average academic achievement and financial need.

**Van Doren Scholarships.** \$1,000 grants for one student each at the college's five sites. Undergraduate and graduate students are eligible. Also, \$4,000 each to a minority and non-minority Ph.D. student, and \$2,000 to a College of Nursing alumni returning for graduate study.

**Kathryn Venolia Award.** For a senior with an outstanding academic record and contributions to school and/or community activities.

## College of Pharmacy

During the annual Honors Convocation, certificates indicating attainment of honors are awarded to members of all pharmacy classes who have maintained an average grade point of not less than 4.35, and certificates indicating attainment of high honors are awarded to members of all classes who have maintained an average grade point of not less than 4.75. The averages are determined at the beginning of the second semester of each year. In addition, the prizes indicated in the following section are awarded at this convocation.

**Academy of Students of Pharmacy Patient Counseling Award.** An award of books and travel support to participate in national patient counseling competition given to an ASPHA student who wins the best in College of Pharmacy competition.

**APhA-ASP Mortar and Pestle Professionalism Award.** McNeil Consumer Healthcare presents a mortar and pestle to a fourth year, professional student who exhibits the ideals of professionalism and excellence in patient care and has demonstrated exceptional service and commitment to the profession of pharmacy through involvement in professional organizations and other extracurricular learning opportunities.

**Award of Excellence in Nonprescription Medication Studies.** A monetary award and plaque from Perrigo Company presented to a second or third year professional student with outstanding academic performance in nonprescription pharmaceuticals and supplies.

**Chicago Pharmacists Association Scholarship Foundation Award.** A monetary award presented to a third year minority student who has promoted and achieved a high level of community involvement in the profession of pharmacy.

**Bette Cipolle and Rosann Sula Memorial Scholarship.** A monetary award presented to a third year student in recognition of social service who exhibits sensitivity to the welfare and care of others.

**I. B. Crystal Memorial Award.** In memory of I.B. Crystal, Class of 1922, a monetary award is given annually to the full-time second year student with the highest overall scholastic average at the beginning of the spring semester.

**CVS Pharmacy Scholarship.** Five monetary awards, two for the first-year students and one each for second-, third- and fourth-year students, are presented based on good academic standing, evidence of community involvement or volunteer work, interest in community pharmacy practice, and completion of an essay.

**Herbert Martin Emig Award in Clinical Pharmacy.** This award was established by the Class of 1966 to honor Professor Herbert Martin Emig in appreciation for his 40 years of sharing his professional philosophy and effective teaching in clinical pharmacy. A plaque is presented to the student who has excelled in all areas of clinical pharmacy courses.

**FMC Award of Excellence Program.** A monetary award given by the FMC Corporation to a first year professional student entering the College with the highest predictive index.

**GlaxoSmithKline Patient Care Award.** The award consists of two plaques, one to the recipient and a second for permanent display in the College of Pharmacy, to which the recipient's name is added. The award is given annually to a fourth year student for excellence in translating knowledge into practical patient care.

**Ralph M. Henninger Award in Pharmaceutics.** In memory of Ralph M. Henninger, a plaque is given annually to the graduating student with the highest scholastic standing in the pharmaceutics curriculum at the beginning of the spring semester, fourth year.

**Reed G. Henniger Scholarship in Pharmacy.** A monetary award presented to a student with financial need and demonstrated scholarship.

**Illinois Association of Community Pharmacists.** Based on a student essay, this award is to be used for travel to a national or local professional pharmacy meeting.

**Illinois Council of Health-System Pharmacists Student Award.** A monetary award given to a third year professional student who is active in professional organizations, demonstrates a high degree of character and leadership, and who is interested in hospital employment.

**IPhA Foundation Leadership Award.** This award is presented annually to the graduating student who has done the most to promote the profession of pharmacy through leadership and involvement in professional associations. The award consists of a monetary prize with complimentary IPhA membership for the honoree's first postgraduate year.

**IPhA Foundation Paul Eiche Prize.** This is an award made in memory of its donor, Paul Eiche, to the graduating student with the highest scholastic average at the beginning of spring semester, fourth year. It consists of a monetary prize with a complimentary IPhA membership for the honoree's first postgraduate year.

**Jean-Pierre Award.** A monetary award is given to a second year African-American female student with the highest scholastic coverage in her pharmacy courses.

**Joseph Anton Koren Memorial Scholarship.** A monetary award for a Continuation Curriculum Option (CCO) student who demonstrates evidence of community service and leadership.

**Glenn S. Kraiss Pharmacy Leadership Scholarship.** Walgreen's has provided a monetary scholarship for a student entering the final year of the Doctor of Pharmacy program who demonstrates outstanding leadership and communication skills with an interest in the community chain practice setting.

**David Langerman Scholarship.** A monetary award supported by Windmill Health Products is presented to a second year professional student with high academic achievement, evidence of volunteer activity, and an expressed interest in community pharmacy.

**Lilly Achievement Award.** Eli Lilly and Company awards a gold medal to a third year student for superior scholastic achievement, leadership, and professional attitude.

**Josephine J. Margraff Scholarship.** A monetary award for a first-year student with a minimum 4.5 grade-point average (on a 5.0 scale or equivalent), evidence of community service or volunteer activity, and completion of an essay.

**Merck Award.** Merck and Company presents copies of the Merck Index and the Merck Manual to outstanding first year students.

**Edward S. and Josephine E. Mika Scholarship.** This is a monetary award given annually to the third year professional student with a grade point average of "B" or greater who has provided service to the college and community.

**National Pharmacists Association Scholarship Award.** This monetary award is presented annually to a first year professional student with a minimum grade point average of "B," who has exhibited outstanding leadership qualities directed toward fellow students and the pharmacy profession.

**Osco Drug Scholarship.** The Osco Drug Scholarships are monetary awards given to second and third year students who have advanced the esprit of the student body through a leadership role in extracurricular activities and who have demonstrated

outstanding academic achievement and aspire to practice in community pharmacy.

***Pharmacists Mutual Scholarship.*** A monetary award and certificate are presented to a first year student for academic achievement and leadership.

***Reuben M. Reifler, MD, and Tillie T. Reifler Scholarship for Pharmacy Students.*** A monetary award given to a professional pharmacy student. The criteria for selection are academic merit and unmet financial need.

***Rho Chi Prize.*** Phi Chapter of the Rho Chi Pharmacy Honor Society awards the recipient's choice of a copy of the United States Dispensatory or the Pharmacological Basis of Therapeutics to the second year professional student who has attained the highest scholastic average upon entering spring semester, second year.

***Samuel Shkolnik Pharmaceutical Jurisprudence Award.*** A monetary award presented annually to the third year student achieving the highest scholastic average in pharmaceutical jurisprudence.

***Edward F. Skorczewski, Jr., Memorial Award.*** A monetary award presented to a third year student in recognition of social service and who exhibits sensitivity to the welfare and care of others.

***Nathan Stoller Scholarship.*** A monetary award presented to a student in good standing academically, upon recommendation of the faculty Scholarship & Awards Committee.

***Van Doren Scholars.*** Nine monetary scholarships support a professional and a graduate student from each academic department.

***Van Schaack Prize in Chemistry.*** A monetary award is presented to the student with the highest scholastic average upon entering spring semester, third year, in medicinal chemistry courses.

***Charles R. Walgreen, Jr., Scholarship Award.*** A monetary award is given annually to the student with the highest scholastic average upon entering the spring semester, third year.

***Wal-Mart Pharmacy Scholarship.*** A scholarship given to a third year student with a "B" average, with strong leadership qualities, and a desire to enter community pharmacy practice.

***George L. Webster Professional Service Award.*** A plaque and a monetary award presented annually to a third year student for outstanding service to the profession of pharmacy. The recipient is chosen by the Pharmacy Student Council.

## **College of Social Work**

***Sandra Alberti Memorial Award - \$1,000.*** Applicants for this award must be women undergraduate students in the College of Social Work who are social work majors and who have demonstrated academic excellence (4.00 grade point average or higher). For further information, contact Judy Curry, Assistant Vice Chancellor for Administration, (M/C 777), 500 Reliable Building.

# Graduation Requirements and Academic Regulations

## This Catalog and the Timetable

The *Undergraduate Catalog* (<http://www.uic.edu/ucat/catalog/>) contains detailed information regarding University programs and requirements, as well as descriptions of all undergraduate courses taught at the University. Requirements stated in the department sections of the *Undergraduate Catalog* should serve as a guide for students in planning a program of study. Department advisers are available to counsel students on individual programs. Students are responsible for knowledge of, and adherence to, all rules, regulations, and requirements stated in the *Undergraduate Catalog* and for keeping up to date with published changes. Students are also responsible for knowing the degree requirements for the programs in which they are enrolled and for enrolling in courses which fulfill those degree requirements. Students are strongly encouraged to seek information and assistance from appropriate staff should they have questions regarding requirements or regulations.

Students should select courses after referring to the *Undergraduate Catalog* and the *Timetable*, which lists the courses offered in a specific term. Current undergraduate course descriptions are available at <http://www.uic.edu/ucat/courses>. The frequency of course offerings is determined by the departments and colleges as program requirements dictate and faculty availability permits. No assurance can be given that specific courses will be offered in any term or year.

Courses offered by departments and programs that lead to major and minor fields of specialization are listed in this catalog. Consult the *Index* for exact location.

Following the course number and title is a statement of the number of credit hours given, course content, and prerequisites, if any.

## Graduation Requirements

The following chart indicates the minimum graduation requirements across colleges. It is intended to serve as a quick overview of the basic requirements for undergraduate students. New students or students interested in changing colleges are encouraged to seek academic advising in their college of enrollment.

Graduation Requirements at a Glance									
	<i>Applied Health Sciences</i>	<i>Architecture and the Arts</i>	<i>Business Administration</i>	<i>Education</i>	<i>Engineering</i>	<i>Liberal Arts and Sciences</i>	<i>Nursing</i>	<i>Pharmacy</i>	<i>Jane Addams Social Work</i>
English Composition	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours
Humanities	6 hours	6 hours	9 hours	6 hours	6 hours	9 hours	6 hours	6 hours	9 hours
Social Sciences	6 hours	6 hours	6 hours	7 hours	6 hours	9 hours	6 hours	6 hours	21 hours
Natural Sciences	Varies by program	6 hours	6 hours	13 hours	6 hours	13 hours	6 hours	6 hours	10 hours
Cultural Diversity	One course	One course	One course	One course	One course	One course	One course	One course	One course
Foreign Language	None	Varies by program	2 years high school or 8 hours college	None	None	16 hours	None	None	None

An explanation of the categories above follows:

*English Composition*: Engl 160 and Engl 161 or the equivalent.

*Humanities*: Minimum hours vary by college as indicated on the chart above. Refer to your college section for approved courses.

*Social Sciences*: Minimum hours vary by college as indicated on the chart above. Refer to your college section for approved courses.

*Natural Sciences*: Minimum hours vary by college as indicated on the chart above. Refer to your college section for approved courses.

*Cultural Diversity*: One course required. Refer to your college section for approved courses.

*Foreign Language*: If indicated above, refer to your college section for specific requirement.

## Course Numbering

Courses numbered 001-099 do not carry academic credit but meet special program requirements. These courses carry equivalent hours which 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 and do not carry credit towards graduation.

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

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

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

Courses numbered 400–499 are intended for advanced undergraduate and graduate students.

Students will note that some courses at the 400 level listed in the *Timetable* have differential credit (i.e., three credit hours for undergraduate students and four credit hours for graduate students). Undergraduate students who enroll in a 400-level course with differential credit will always be assigned the lower credit hour value. Graduate students will always be assigned the higher credit hour value.

## Additional Courses

Courses that are not part of a degree program are listed in the section titled *Additional Courses* at the back of this catalog.



Regardless of the college or curriculum in which the student is enrolled, the following specific requirements must be fulfilled for graduation:

1. The admission requirements for the requested curriculum must be met.
2. All deficiencies in entrance credit must be removed.
3. **English Composition Requirement.** The student 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 Composition Placement Test reveals the need for such a course. Whenever questions arise with regard to the fulfillment of the University's English composition requirement through transfer courses, CLEP examinations, and proficiency and other examinations, the Department of English will determine whether to grant a student an exemption from the requirement.
4. **General Education Requirements.** Normally, general education courses should be completed by students before they begin to concentrate on their majors in the junior year. Students are required to complete a *minimum* of 24 semester hours of general education course work, distributed as follows: 6 hours in approved courses in the humanities; 6 hours in approved courses in the social sciences; 6 hours in approved courses in the natural sciences; and the remaining 6 hours in one or more of these three areas. Any excess hours earned in one of the three areas can count toward the six additional hours required. To fulfill the general education requirements, students must take courses from at least two departments in each of the three broad areas of knowledge. However, the colleges are authorized to increase these minimum requirements and some have done so. Consult the graduation requirements of *your college for the approved list of courses satisfying the general education requirements and for all variations.* Enrollment in these general education courses is determined in consultation with *your college office.*

General education involves coursework in three broad areas: the natural sciences (sometimes subdivided into life sciences and physical sciences, but also including mathematics), the social sciences (sometimes subdivided into social and behavioral sciences), and the humanities. The method of investigation varies greatly among these three, but increasingly their concerns have tended to merge and overlap. All attempt to describe underlying and longstanding questions about the physical universe, about human nature, and about the human potential for enduring expression. Quantitative reasoning, mathematics, statistics, and computer science are particularly significant in the natural and social sciences but may also have a role in humanistic studies; the study of texts, other human artifacts, and the records of the past is common to disciplines in both the humanities and social sciences. Essays, statistical analyses, and case studies may be appropriate forms for conveying results in any of the three areas; laboratory experience and the modeling and write-up of experiments are features of much work in the social as well as the natural sciences.

Despite these overlaps, useful distinctions can still be drawn among the three areas. An acquaintance, however selective, with the subject matter and investigative modes of all three is essential as part of a general education.

### **Humanities**

Studies in the humanities develop an understanding of the struggles and aspirations, the comedies and tragedies, and the achievements and failures of human beings engaged with such questions as identity, beauty, courage, love, good and evil, truth, justice, and ethics. In examining the dreams, traditions, and values of people throughout time, students focus on examples of individual human self-expression in philosophy, historical agency, and the arts over many centuries.

### **Social Sciences**

Through study in the social and behavioral sciences, students learn to analyze the past, develop insight into contemporary social life, and explore the implications of individual and social actions for the future. Individual and social behavior, political and economic institutions, and historical change both within and across cultural boundaries, are all the objects of study in the social sciences, and prepare students for understanding their own individual lives in the context of society.

### **Natural Sciences**

Human beings have always sought an increased understanding of the mechanisms that govern the natural world. The natural science portion of the general education requirements is designed to give each student an experience with the emerging picture of the world. The ultimate goal of such study is to stimulate each student's ability to appreciate the wonder and complexity of nature, and to acquaint students with some of the tools employed in science and mathematics.

*Courses listed or cross-listed under the rubric of a student's major area of study may not be counted toward University general education credit. If a student has a double major, courses in only one of the major areas may be counted toward University general education credit.*

Students should be aware that some courses fulfill the general education requirement *only* when taken together with other courses in ways specified in an individual college's list of approved courses. Courses which concentrate on a narrow aspect of a single topic of study may count for general education credit when linked, as specified in a college's list, to another course or courses providing a broad context for such subject matter.

The same course cannot be used to satisfy the general education requirement in more than one of the three areas (humanities, social sciences, natural sciences). Courses at the 300 and 400 levels and independent study or variable topics courses do not ordinarily carry general education credit.

5. **Cultural Diversity.** All students at UIC are required to fulfill the Cultural Diversity requirement by studying the culture, social, and political institutions and value systems of social groups, regions, or nations different from those present in the dominant American culture.

To fulfill this requirement, students must choose one course from the list of approved Cultural Diversity courses (refer to the *Cultural Diversity List* in the *College of*

*Liberal Arts and Sciences* section of this catalog). Some of the courses on the Cultural Diversity list may also satisfy program major requirements or other University general education requirements in the humanities or social sciences, or may count as an elective.

Students also may fulfill the Cultural Diversity requirement by completing an academic year abroad in a non-Western country.

Foreign nationals and students who have received their high school education (or its equivalent) in a non-Western country are exempt from this requirement.

6. **Grade Point Average Requirement.** All candidates for a degree must have at least a 3.00 (A=5.00) 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 curricula.
7. **Grade Forgiveness.** Students who do not meet the grade point average requirement may graduate if they satisfy the minimum grade point average in accordance with the following policy: 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 "E" 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 grade point average. 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 requirements, or for the major must be approved by the major department and the college dean. The grade point average after the substitution must be 3.00 for graduation except in those curricula where a higher grade point average 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 grade point average.
8. **Repeated Courses.** 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 courses that are repeated. If a course is repeated more than once, all grades received, pass or fail, are computed in the student's cumulative grade point average.
9. **Residence Requirement.** The 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 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, when approved by the student's college, does not interrupt the UIC residence requirement for graduation. Credit earned through CLEP and proficiency examinations and through the University of Illinois correspondence and extramural courses neither applies toward nor interrupts the residence requirement. Under exceptional circumstances, the residence requirement may be waived by the dean of the student's college upon petition of the student.

10. All graduation requirements of the chosen college and curriculum must be met.
11. When graduation 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 graduation 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 major or curriculum in effect at the time of the student's re-enrollment. 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.
12. 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.

For the specific college requirements that must also be met, see the appropriate sections of this catalog.

## 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 diploma and transcripts carry the designation distinction, high distinction, or highest distinction, as appropriate.

**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** are awarded to students in the top 3 percent of the graduating class, provided their cumulative grade point average is at least 4.50. Transfer students must have completed a minimum of 40 semester hours at the University of Illinois. Their UIC average must be at least as high as that of the lowest ranking resident recipient of University honors.

Additional prizes and awards are given to undergraduate students who have meritorious records.

## 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 conferred three times a year, at the end of each term. The student receives the degree in a stated curriculum.

## 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:

1. 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.
2. The student who has received a bachelor's degree at another institution must meet all residence and course requirements at UIC.
3. 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 residency requirements.

## Academic Regulations

### Adding and Dropping Courses

A course may be added through the last day of instruction in the second week of the term. A course may be dropped without academic penalty through the last day of instruction in the sixth week of the fall and spring semesters and through the last day of instruction in the fifth week of the summer session. A college dean or director of an independent unit may approve exceptions in justified cases. If the course dropped is the only one in which the student is enrolled, withdrawal from the University must be initiated in the student's college office. In five-week courses, the deadline for dropping a course is the last day of instruction in the third week.

### Withdrawal

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 "E" (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 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 credit 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, however, shall be considered eligible for this privilege who has acquired hours under the twelfth weeks rule adopted by the Senate.

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.

### Probation and Drop Rules

The following are minimum UIC undergraduate probation and drop 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 3.00 grade point average. This rule applies even for the student with a cumulative grade point average of 3.00 or higher. For such a student the probation serves as a warning.
2. An entering transfer student, admitted by petition with a cumulative grade point average lower than 3.00, will be immediately placed on probation.
3. A student readmitted by petition with a UIC grade point average lower than 3.00 will be immediately placed on probation.
4. A student readmitted by petition whose combined cumulative grade point average from UIC and other institutions is lower than 3.00 will be immediately placed on probation.

A student on academic probation who earns a grade point average of at least 3.00 in a given term will be removed from probation, provided the student's cumulative grade point average in all work taken at UIC is at least 3.00. 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 3.00.

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 3.00; 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 credit and UIC course work to at least 3.00.

The dean of the student's college determines the conditions of probation. In addition to specifying the grade point average, 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.

### Drop Rules

1. A student on academic probation *will be dropped* 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 3.00.
2. A student on academic probation *will be dropped* 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 3.00.
3. A student who fails to make progress toward a degree *may be dropped*. (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.)

In addition to the probation and drop rules above, a college or a school may impose criteria for dropping 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 drop action and consideration of a petition for readmission. The drop rules may be waived when, in the judgment of the student's college, the student's overall record warrants such action.



## Pass/Fail Option

Students may elect to take a course on the pass/fail 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 pass/fail option. If a student withdraws from a pass/fail 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.<sup>1</sup>
5. The option may not be used for English 160 and 161.
6. The pass/fail option in a course must be elected by the end of the tenth day of instruction of the term.
7. The pass/fail 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, but it is not entered on the student transcript except as hereafter provided.
10. For courses taken under the pass/fail option, a grade of "P" is recorded on the transcript if a letter grade of "A," "B," "C," or "D" is earned. If the letter grade "E" is assigned, an "F" is entered on the transcript. "IN" and "DF" grades are replaced by "P" or "F" upon completion of the courses or converted to "F" if the course completion deadline for an "IN" is not met.
11. The grades of "P" and "F" are not used in the computation of the grade point average.
12. Grades of "P" and "F" 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 pass/fail 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 "pass" 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 10th day of the term (5th day for summer session) to have a course designated for the pass/fail grading option.

## Guidelines Regarding Academic Integrity

Academic dishonesty includes, but is not limited to:

1. **Cheating.** 1) Using or attempting to use unauthorized materials or information in any academic exercise; 2) extending or receiving unauthorized assistance on any examination or assignment.
2. **Fabrication.** Falsifying any information or citation in an academic exercise.
3. **Facilitating academic dishonesty/plagiarism.** Intentionally representing the words or ideas of another as one's own in any academic exercise.
4. **Bribes, favors, threats.** 1) Threatening, bribing, or attempting to bribe any person with the intention of affecting an evaluation of academic performance; 2) conspiring to bribe or threatening a person with the intention of affecting an evaluation of academic performance.
5. **Examination by proxy.** Impersonating another student during an exam, or intentionally allowing such an impersonation.
6. **Grade tampering.** Tampering or attempting to tamper with grades.
7. **Nonoriginal works.** Falsely claiming, or attempting to claim, authorship of another person's written work.

## 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 *Timetable* 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.

## Semester Hours

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 credit lecture/discussion class meets for three 50-minute class periods each week for 15 weeks for a total of 45 class sessions for the semester. During the eight-week summer session, the classroom period is 100 minutes for lecture/discussion. It is expected that students will spend the equivalent of two classroom periods of outside preparation for one classroom period per week of lecture or discussion. Those courses in which credit hours exceed contact hours may require additional readings, assigned papers, or other course work.

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

1 - 29	freshman standing
30 - 59	sophomore standing
60 - 89	junior standing
90 and above	senior standing

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

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

The minimum required for a degree is 120 semester hours. The required number of hours varies within the colleges, schools, and curricula. 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 will also provide this information.

## Grading and Grade Point Systems

Each student seeking a degree should thoroughly understand the meaning of grades and symbols and the grade point value of each grade.

Grades	Equivalent	Grade Points per Hour
A	Excellent	5
B	Good	4
C	Average	3
D	Poor but passing	2
E	Failure	1

### Symbols

(not included in computation of average):

**W - Withdrawn.** Withdrawn from course without penalty (no grade).

**DF - Deferred.** Grade deferred (graduate courses, independent study courses, and certain study-abroad courses only).

**S - Satisfactory; U - Unsatisfactory.** Used in graduate thesis research courses and graduate courses given for zero credit.

**P - Pass; F - Fail.** Used only in courses taken under pass/fail option. See *Pass/Fail Option*.

**M - Missing.** Missing grade. This symbol is automatically generated when, for a variety of reasons, no grade is submitted by the instructor.

**IN - 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 “IN” 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 that the final grade roster is due.

The instructor must submit an Incomplete report with the final grade roster for the “IN” 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 “IN,” the student may not register for the course a second time, but must follow the procedures detailed on the report.

An “IN” must be removed by the end of the student’s first semester or summer session in residence subsequent to the

incurrence of the “IN” or, if not in residence, no later than one calendar year subsequent to the incurrence. When the student submits the work, the instructor will grade it and change the “IN” to the appropriate grade.

If an undergraduate student fails to meet the stated conditions, the instructor will assign an “E” for the final grade.

**Pass-Pass.** Used for proficiency examinations and special examinations.

**Fail-Fail.** Used for special examinations.

### Computing the Grade Point Average

(for applying college probation and drop rules)

Multiply the number of credit hours for each course by the grade weight, add the products, and divide by the total number of hours. For example:

Grade	Hours	Grade Weight	Grade Points
A	4	5	20
B	6	4	24
C	5	3	15
(Totals)	15		59

This grade point average is 59/15, or 3.93.

*Courses numbered 001-099 do not carry academic credit. Grades for these courses are not calculated in the grade point average and do not carry credit towards graduation.*

### Change in Grade Point System

Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A. See the 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

# Academic Resources and Support Services

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## University Library

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**Interim University Librarian:** Nancy R. John.

The University Library of the University of Illinois at Chicago, consisting of the Richard J. Daley Library, the Architecture and Art Library, the Library of the Health Sciences, the Mathematics Library and the Science Library, provides collections for students in all curricular areas, for graduate programs, and for faculty research.

Library holdings as of June 2001 numbered more than 2,125,000 books and bound periodicals, 740,000 government publications, 182,000 maps, and an extensive collection of microform materials. The University Library currently receives nearly 19,700 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 10,000 full-text electronic journals, online indexing services, and other electronic resources.

The University Library features an online public access catalog (UICCAT) and a statewide circulation and resource sharing network, Illinet Online (IO), which provides access to more than 25,000,000 catalogued items held by 44 academic libraries in Illinois. Through the Infopass program, students can gain entry to other academic and private libraries in the Chicago area. Information about the Library's hours, services and collections is available at <http://www.uic.edu/depts/lib>.

### Richard J. Daley Library

Located at 801 S. Morgan St., the Richard J. Daley Library contains books, journals, periodicals, and specialized materials in the humanities, social sciences, and engineering. Users may obtain assistance at the following service points: Circulation, Documents, 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 3,600,000 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 and newspapers are housed in the Reserve Reading Room. 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.

## Architecture and Art Library

Located on the third floor of Douglas Hall, the Architecture and Art Library contains a working collection of academic and professional materials for the support of courses in art history, art and design, architecture, and urban planning. It also houses the Library's collections of sound recordings. A collection of films and videotapes, supplemented by sources outside the Library, supports academic programs and classroom instruction.

## Library of the Health Sciences (LHS)

Located at 1750 W. Polk St., the Library of the Health Sciences contains collections supporting teaching, research, and clinical programs in applied health sciences, dentistry, medicine, nursing, pharmacy, and public health.

## Mathematics Collection

Located on the fourth floor of Science and Engineering Offices, Room 430, the Mathematics Collection houses monographs and selected periodicals relating to mathematics.

## Science Library

Located on the third floor of Science and Engineering South (SES), Room 3500, 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

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**Director:** Ahmed Kassem.

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 any of the ACCC facilities for electronic mail, writing papers, on-line research, producing resumes, publishing personal web pages, or just learning more about computers and computing in general. The ACCC Orientation Web page at [www.accc.uic.edu/cso/orient/](http://www.accc.uic.edu/cso/orient/) is an on-line introduction to ACCC services for students. More information about ACCC services and facilities is available on the ACCC Web home page, [www.accc.uic.edu](http://www.accc.uic.edu).

Public microcomputer laboratories are available throughout the campus, including locations in:

- Art and Architecture (845 W. Harrison, Rooms B 120 and 2312);
- Behavioral Sciences Building (1007 W. Harrison, Rooms B001 and 4133);
- Benjamin Goldberg Research Center (1940 W. Taylor, Rooms 105 and 179);
- Chicago Circle Center (750 S. Halsted, Rooms 401 and 408);
- Education, Performing Arts & Social Work (1040 W. Harrison, Room L270);
- Marie Robinson Hall (residents only) (811 W. Maxwell, Room 158);
- Richard J. Daley Library (801 S. Morgan, Room 1-444)
- School of Public Health and Psychiatric Institute (1601 West Taylor, Room B34);
- Science and Engineering Laboratories (950 S. Halsted, Rooms 2249, 2249F, 2054, 2058, 2263 and 2265);



- Student Residence Commons (700 S. Halsted, Room 2027);
- Student Residence Hall (residents only) (818 S. Wolcott, Room 317);
- Student Services Building (1200 W. Harrison, Room 2300).

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, remote login and file transfer. Most of the public labs have wheelchair-accessible desks. Labs located in the two main facilities (SEL and BGRC) are open 24 hours. See "Public Labs-Hours and Locations" at [www.accc.uic.edu/pclabs/](http://www.accc.uic.edu/pclabs/) for location, open hours and current status. An interactive tutorial, [computing@uic](mailto:computing@uic), is available in CD-ROM form, in the public labs, and on the web at [www.accc.uic.edu/computing/](http://www.accc.uic.edu/computing/).

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 when students purchase copies of microcomputer software packages that the ACCC distributes under University site-license agreements.

Several large UNIX workstations offer a wide array of services, including e-mail, personal Web space, class schedule information, phonebook listings, specialized bulletin boards, news services, and on-line computer documents. Most of these information sources are available through the World Wide Web. The ACCC also makes available a supercomputer-class HP UNIX machine that provides an environment where faculty and faculty-sponsored students can run computationally intensive programs. The ACCC also maintains the main web servers for UIC and publishes a newsletter, *The A3C Connection*.

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 systems, to other computer systems at UIC, and to the Internet. The ACCC also maintains banks of modems for Internet access from off campus. Over 1100 dial-up lines provide full access to the Internet; these network connections are available at no charge (other than any applicable telephone connection charges for the dial-up labs). 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 ACCC Networking Web page has more information; there's 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 supports electronic mail on its UNIX systems, which can be accessed both on and off campus. Electronic mail can be accessed in several ways: by logging in the UNIX servers themselves and using Pine, from a PC using an email client such as Eudora, or with a web browser through the Webmail interface at <http://webmail.uic.edu>. Students may choose to receive their UIC e-mail at an existing outside electronic mail address by entering that address on the email forwarding web link on the ACCC E-mail web page, there is a link to the E-mail page on the ACCC home page. Also, ACCC's Instructional Technology Lab runs a number of instructional servers often used in classes, including Blackboard CourseInfo, Webboard and RealSystem. The class instructors

provide student support on the use of these systems. For more information, see the ACCC Education web page.

The ACCC maintains banks of modems for off-campus access. Over 900 dial-up lines provide full access to the Internet.

To get started, students should go to one of the public microcomputer facilities to activate their ACCC account. This account is required to use the public computing labs, for printing in the labs, and for logging in to Res-Net in the Residence Halls. A student *i-card* is required to activate the account. The ACCC provides students with information on its extensive documentation, free seminars on a variety of topics, and access to other informational sources and services; see the ACCC Web pages at [www.accc.uic.edu](http://www.accc.uic.edu). Students wishing to use 24-hour facilities in SEL and BGRC should have their university *i-card* authorized for after-hours building entry; check with on-site staff for instructions. The ACCC computer network, the distributed printing system, and the dial-up telephone lines are also generally accessible 24 hours daily.

In addition to Res-Net Internet connections, the ACCC also provides students in the Residence Halls with telephone access. Students must obtain a LINK Code 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 can obtain a LINK Code by calling (312) 413-4327 and following the prompts.

The ACCC administrative offices are located on the first floor of the Benjamin Goldberg Research Center (BGRC), 1940 W. Taylor. For more information, visit the ACCC Web home page at <http://www.accc.uic.edu/>; stop by the Client Services Office, Room 2267 SEL from 9 a.m.- 5 p.m. on weekdays to 4 p.m. Wednesday; telephone (312) 413-0003 from 9 a.m.-7 p.m. weekdays, except 4 p.m.-5:30 p.m. Wednesday; or send e-mail to [consult@uic.edu](mailto:consult@uic.edu)

## Language Laboratory

**Director:** David M. Weible.

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 for individual study. The facilities are located on the third floor of Grant Hall and are open from 8:30 a.m. to 4:30 p.m., Monday through Friday. During the fall and spring semesters, these hours are extended as staffing permits. For further information, students may visit the laboratory in person or contact it by telephone at (312) 996-8838 or through the website at [www.uic.edu/depts/langlab/](http://www.uic.edu/depts/langlab/).

## Writing Center

**Director:** Vainis Aleksa.

The Writing Center provides free writing assistance to all UIC students who want to learn more about writing. Appointments for one-on-one conferences with a peer tutor can be made at the Writing Center, 100 Douglas Hall, or by calling (312) 413-2206.

The Writing Center welcomes students from all colleges and majors to become tutors. Students who are interested should contact the Writing Center to find out more about its two courses, English 222 and English 482. Tutors who successfully complete the courses are eligible for paid staff positions.



The mission of the Writing Center includes fostering a learning environment for writing at UIC that is supportive, accessible, and mindful of student learning experiences. The Center encourages all members of the UIC community, faculty and students alike, to contact the Center at [vainis@uic.edu](mailto:vainis@uic.edu) to share thoughts or ask questions related to academic writing.

The Center is open 9:00 a.m.-5:00 p.m. Monday-Thursday and 9:00 a.m.-3:00 p.m. on Friday starting the third week of each semester. The Center closes Wednesday noon of finals week.

# Special Programs and Opportunities

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## Proficiency Examinations for Enrolled Students

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Each term the University offers proficiency examinations, similar to regular term examinations, in courses ordinarily open to freshmen and sophomores. Proficiency examinations for English 160 and English 161 are scheduled regularly. 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. In other subjects the student must obtain the consent of the college dean as well as the head or chairperson of the department concerned. 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. 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 and 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 correspondence 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 Admissions and Records.

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.

Proficiency examinations are not considered an interruption of residence for graduation, and credit earned in such examinations is not counted toward satisfying the minimum residency requirement toward the degree if the last 30 semester hours must be earned in residence.

## CLEP for Enrolled Students

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Enrolled UIC students may earn credit based on CLEP examinations of the College Entrance Examination Board. See *Alternative Sources of Credit*. Those students who wish to attempt any CLEP examination should consult the Testing Service, 1070 SSB, (312) 996-0919, before registering for any CLEP subject or general examination. The CLEP general and subject examinations are given once each month and a fee is charged. CLEP examinations

are not considered an interruption of residence for graduation, and credit earned in such examinations is not counted toward satisfying the minimum residency requirement toward the degree if the last 30 semester hours must be earned in residence.

## Correspondence Study

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Correspondence courses taken through the University of Illinois may be accepted by the University for credit. After matriculation, students may count toward the degree as many as 60 semester hours of credit earned in correspondence 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 correspondence courses.

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

Students, including those in high school, who wish to pursue correspondence study should write directly to Guided Individual Study, University of Illinois at Urbana-Champaign, 1406 University Inn, 302 East John Street, Champaign, Illinois 61820.

## Auditors

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Auditors or visitors may register in credit courses by obtaining the consent of the instructor. The fee for auditing a course is \$15. For more information, consult *Special Enrollment Categories*.

## Academic Center for Excellence

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**Director:** Vacant.

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: (1) courses in vocabulary, study strategies, English as a second language (ESL), writing and critical reading and thinking (listed as ASP courses in the Timetable); (2) workshops on specific study strategies (time management, memory, test-taking, anxiety reduction); (3) academic advising/counseling that focuses on long-term planning; (4) study tips and resources on the ACE website. ACE offers assistance to UIC students at all levels, from first year through graduate or professional school. ACE also offers programs for pre-health and health professional students in the Urban Health Program.

In addition to providing direct service to students, ACE acts as a resource to faculty and tutors. ACE professionals offer on-site workshops to colleges, programs, and student organizations, and contribute expertise for individual courses (LAS 100 and others). ACE provides tutor training and faculty development workshops. Finally, ACE works with faculty to develop Supplemental Instruction, a program of weekly study sessions linked to particularly difficult courses.

For a full description of ACE programs, visit the website at <http://study.ace.uic.edu>. Call ACE at (312) 413-0032. Write or visit ACE at (MC 327), University of Illinois at Chicago, Suite 2900, Student Services Building, 1200 W. Harrison, Chicago, Illinois 60607.

## African American Academic Network

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**Director:** Flecia R. Thomas.

The African American Academic Network (AAAN) is one of UIC’s unique support programs. The goal of AAAN is to assist

UIC's African American student population from the admission process until graduation. Its mission is to provide academic and personal support mechanisms which will allow students to better navigate through UIC. AAAN provides comprehensive services in the following areas: recruitment; academic advising; tutoring; personal growth and development; peer review groups; computer lab; resource library; workshops and co-curricular experiences designed to meet the unique cultural, academic, social and motivational needs of African American students. Whether individually, in small groups or large formal settings, program efforts encourage students to bond with UIC by providing a supportive environment that helps them remain here through graduation.

For further information, write the African American Academic Network (MC 150), University of Illinois at Chicago, Suite 2800, Student Services Building, 1200 W. Harrison, Chicago, Illinois 60607, or call (312) 996-5040.

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## Latin American Recruitment and Educational Services Program

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**Director:** Leonard Ramirez.

The Latin American Recruitment and Educational Services Program (LARES) is a recruitment and retention unit at UIC devoted to working with Latino students. In guiding students through their chosen major, the bilingual/bicultural staff provides diversified academic, career, and financial aid counseling on an individual basis. In addition, LARES, in cooperation with other departments and Latino organizations, offers orientation programs, college success workshops, career workshops, and a variety of activities aimed at enhancing the total educational experience of students.

Ongoing LARES projects include a summer bridge program, graduate and scholarship application workshops, orientation for beginning freshmen, and a mentorship program. Furthermore, in conjunction with the Confederation of Latin American Students (CLAS), LARES offers a comprehensive tutoring program and offers Academic Skills Program (ASP) courses to provide students with specially designed instruction and workshops. LARES actively encourages students to organize their own extracurricular activities and provides a study area and computer facilities for their use.

For further information, contact the Latin American Recruitment and Educational Services Program (MC 220), University of Illinois at Chicago, Room 2640, Student Services Building, 1200 West Harrison Street, Chicago, Illinois 60607-3502, or call (312) 996-3356 or 996-6073, or refer to the web site <http://www.uic.edu/depts/lares/>.

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## Native American Support Program

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**Director:** Rita Hodge.

The goal of the Native American Support Program is to increase enrollment and graduation of Native American students at the University of Illinois at Chicago. The program offers students academic, career, and financial aid advising. The Native American Support Program also serves as a liaison to the Chicago American Indian community.

The program sponsors the Native American Student Organization in addition to 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.

For further information, write the Native American Support Program (MC 258), University of Illinois at Chicago, Suite 2700, Student Services Building, 1200 West Harrison Street, Chicago, Illinois 60607-3323 or call (312) 996-4515.

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## Study Abroad Office

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**Director:** Diane Pecknold.

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 60 programs in 30 countries. UIC offers access to programs in a variety of subjects, from foreign languages and humanities to business, 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. Study Abroad offers only international programs that award academic credit toward an undergraduate degree. The Study Abroad Faculty Advisory Committee monitors program selections to ensure that offerings meet the academic standards and complement the curricula of the campus. Programs are also selected on the basis of their ability to promote personal growth and intercultural awareness through full exposure to the cultural diversity of the host country. Study abroad helps to prepare students for the global economy in which they will work, and many programs also include an internship component, giving students an opportunity to gain valuable practical experience working in an international environment.

For more information about programs and services, write to the Study Abroad Office (MC 227), University of Illinois at Chicago, Room 502 University Hall, 601 S. Morgan Street, Chicago, Illinois 60607, or call (312) 413-5365.

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## Air Force Reserve Officers' Training Corps Program

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**Professor:** Brian C. King, Col.

**Assistant Professors:** Timothy Karagias, Maj. Michael Moody, Capt. LaShanda Jones, Capt.

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. Excellent opportunities exist for students in pilot, navigator, missile, technical, and nurse fields. 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.

All Air Force classes are offered only at the Illinois Institute of Technology, thus students will be enrolled at IIT on a part-time basis. The classes and leadership labs are usually held on Thursday afternoon. A list of these IIT courses is available at the web site [http://www.iit.edu/~afrotc/as\\_course.html](http://www.iit.edu/~afrotc/as_course.html). For further information, call the Department of Aerospace Studies at (312) 567-3525, or go to 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. Its vision is to be "a highly

successful organization, respected throughout the Air Force, the educational community and the nation.” 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.

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.

### **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. Not meeting this requirement does not prevent students from enrolling in the AS 300 course, but rather postpones award of POC privileges until field training is accomplished. The major areas of study during field training include junior officer training, aircraft and crew orientation, 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 coursework remaining towards their degree. Completion of this program requires a five-week summer field training encampment and the four semester POC. The five-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 five-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 College Scholarship Program (CSP) 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 may go directly to the Air Force site at [www.afrotc.com](http://www.afrotc.com).

## **Army Reserve Officers' Training Corps (ROTC) Program**

**Professor of Military Science:** Michael LaChance, Lieutenant Colonel.

**Assistant Professors:** Captain Shane Strickland, Captain Victor Markell.

**Teaching Associates:** Master Sergeant Timothy Brust, Sergeant First Class Howard Cleland.

The principal objectives of the college-level Army ROTC program are to commission the future officer leaders of the United States Army and train students in leadership. The program is specifically designed to offer individuals the training necessary to develop leadership skills that prepare officers for effective service in the Army, as well as the civilian job market.

Participation in the program is offered on a voluntary basis to qualified students. Requirements for enrollment in the Advanced Course for both males and females are:

1. United States citizenship (or resident alien).
2. Classification as a full-time student.
3. Ability to qualify for appointment as a second lieutenant before the candidate is 30 years of age (veterans can receive a waiver for age).
4. Physical qualifications for a commission.

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 Basic Course at Fort Knox, KY, or prior military service. Both programs include attendance at the fully-funded National Advanced Leadership Course at Fort Lewis, WA, between the junior and senior years.

Cadets are issued, at no cost, uniforms, textbooks, 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 veterans or for students who have attended the Basic Leadership Course after their sophomore year. The Basic Course may also be waived for select juniors and graduate students who have a 2.0 GPA (A= 4.00) or better, have demonstrated leadership potential, and are capable of passing the Army Physical Fitness Test.

### **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 National Advanced Leadership 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 summer camp. 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 for pay grade E-5. 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 cadets. Qualified cadets are eligible for two, three, and four-year Army ROTC Scholarships, the Guaranteed Reserve Forces Scholarship, and the State of Illinois ROTC Scholarship Program. A \$350-\$400 monthly stipend allowance is paid to all contracted advanced course cadets.

For further information, contact the Enrollment Officer, Captain Robb Mitchell (miter@uic.edu) in the basement of the Roosevelt Road Building, 728 W. Roosevelt Road, Chicago, Illinois 60607, or call (312) 413-2357, 9421, 9422 or (312) 996-3451. Also, visit our website at [www.uic.edu/depts/rotc](http://www.uic.edu/depts/rotc).

## **Navy Reserve Officers' Training Corps Program**

**Professor:** Jeffrey D. Keho, Capt., USN, Head of the Department

**Associate Professor:** William J. Kellerhals, CDR, USN

**Assistant Professors:** Chris Malfant, LT, USN; Jeremy Henrich, LT, USN; Kurt Spackman, Maj., USMC.

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 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 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 selected from eligible UIC students applying to the NROTC program. Ten Illinois State ROTC Scholarship tuition waivers are available for college program students for each incoming class. A monthly allowance of \$350 for juniors and \$400 for seniors is paid to each midshipman in the advanced program. College program graduates receive commissions as either 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 week-long 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 1st. 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 Street, Chicago, Illinois.

# Student Services

## Vice Chancellor for Student Affairs

**Vice Chancellor for Student Affairs:** Barbara Henley.

**Associate Vice Chancellor for Student Affairs and**

**Director of Campus Auxiliary Services:** Michael Landek.

**Associate Vice Chancellor for Student Affairs:** Michael Ginsburg.

**Associate Vice Chancellor for Student Affairs:** Clarke Douglas.

**Associate Vice Chancellor/Dean of Students:** Linda Deanna.

**Director of Intercollegiate Athletics:** Jim Schmidt.

The UIC Division of Student Affairs is responsible for ensuring support for the academic mission through partnerships with Academic Affairs, the development and assessment of student learning initiatives and the delivery of services to students.

The Vice Chancellor for Student Affairs is responsible for interpreting university and campus policies to students, parents, and the public and coordinating the activities and services of the Office of Student Financial Aid, the African American Academic Network, the Native American Support Program, the Educational Opportunity Programs (TRIO and GEAR-UP), the Academic Center for Excellence, the Counseling Center, the Office of the Dean of Student Affairs, Student Development Services, the Office of Career Services, the Office of International Services, the Student Information Network Center, the Student Legal Service, Campus Auxiliary Services (the Campus Unions, the UIC Pavilion, Retail Operations, Campus Dining Services, Publications Services, the Children's Center and Campus Housing), the Wellness Center, and Intercollegiate Athletics.

Most service units are located in the Student Services Building and serve the entire student population.

## Counseling Center

**Director:** Robert B. Lees

The goals of the Counseling Center are to help students develop realistic career plans, strengthen academic performance, and improve self-understanding and interpersonal relationships. The staff members provide free individual, couples, and group counseling, including groups for career development and for students on academic probation.

The Counseling Center is staffed by clinical and counseling psychologists and professionals with expertise in disabilities and testing.

In addition to personal counseling, the Counseling Center offers a wide variety of programs and workshops that are designed to meet the needs of college students. In the past, topics have included assertiveness training, test anxiety, coping with stress, choosing a major, and improving relationship skills.

The Counseling Center also coordinates the activities of the Office of Disability Services and the Testing Service. The Office of Disability Services provides accommodations and technological assistance for students with disabilities. The Testing Service administers a variety of tests, including placement tests, career inventory tests, skill tests, CLEP general examinations, and others. The Testing Service also provides information and applications for a number of nationwide tests such as the LSAT, MCAT, DAT, GRE, GMAT, VAT, and others.

For information about the Counseling Center, or to make an appointment, students may visit the office at 2010 Student Services Building, or call (312) 996-3490.

## Services for Students With Disabilities

The Office of Disability Services works to insure the accessibility of UIC programs, classes and services for students with disabilities. Services are available for students who have documented **learning disabilities, vision or hearing impairments, emotional or physical disabilities.**

Students may be eligible for:

- exam accommodations
- alternate print formats
- sign language interpreting
- real-time captioning
- class relocations
- assistance with academic modifications
- access problem-solving
- advocacy and referrals
- and other reasonable accommodations.

UIC is committed to full participation of all students with disabilities. The Office is prepared to assist students with disabilities. Students may stop at the office at 1190 Student Services Building, or call (312) 413-2183 (voice) or (312) 413-0123 (TTY only).

## Health Services for Students

**Head, Department of Family Medicine:** Patrick Tranmer, MPH

Basic health services for students are provided by faculty, residents, and nurse practitioners of the Department of Family Medicine who offer full-service primary care to students. All patients are seen by appointment only. During office hours, students should call and ask to see their primary care provider. If he or she is not available, arrangements can be made to be seen by another practitioner if the condition requires immediate attention; a number of appointments are kept open for patients who need to be seen within 24–48 hours. In addition, triage nurses are available to discuss urgent problems. A student photo ID and a copy of the appropriate insurance card are necessary to initiate services.

### Location and Hours

#### Family Medicine Center

**1801 West Taylor Street, Suite 4 E**

**(312) 996-2901**

**[www.uic.edu/depts/mcftp](http://www.uic.edu/depts/mcftp)**

**Monday, Tuesday and Friday:** 8:30 a.m. – 5:00 p.m.

**Thursday:** 8:30 a.m. – 7:30 p.m.

**Wednesday:** 9:30 a.m. – 5:00 p.m.

**Saturday:** 9:00 a.m. – noon (urgent care only).

### Health Insurance

The University requires all students to be covered by a health insurance carrier. Evidence of coverage may be presented to waive the University health insurance plan. The university contracts with the Mega Life and Health Insurance Company to provide insurance coverage to eligible students and dependents. Contact a student insurance representative at 312-996-3553.

Additional information may be obtained through the website [www.student-resources.net](http://www.student-resources.net).

## Student Development Services

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**Director:** Kelly McCray.

Student Development Services (SDS) performs several different functions that are designed to help students interact positively with the campus environment. Some of these services are: campus information, wellness activities and workshops, student/faculty interaction programs, tutoring referrals, off-campus volunteer opportunities, and leadership development programs. The staff of Student Development Services, located in 1600 Student Services Building, (312) 996-3100, 398 Chicago Circle Center, (312) 996-4500, and 503 Chicago Circle Center, (312) 413-2120, (<http://www.uic.edu/depts/sada/>), also serves as a resource to help students resolve problems that arise within the University system.

### New Student Orientation

An orientation program for all new students is provided by Student Development Services. New students will have an opportunity to meet other new students, learn about university processes and resources, and become familiar with campus facilities. Special orientation sessions are also held for the parents of new students.

### Veterans Affairs

Student Development Services functions as the liaison with the U.S. Department of Veterans Affairs Offices in Chicago and St. Louis for students receiving or applying for DVA education benefits. The SDS Veterans Affairs staff provides enrollment certification services for military veterans, in-service military personnel, and dependents and widows of military veterans who died or are 100 percent disabled due to service-connected causes.

Eligible persons who wish to apply for these educational benefits or persons certified and receiving these benefits who are experiencing problems are encouraged to contact this office in 1600 Student Services Building, (312) 996-5141, (312) 413-9699 or by email, [cjf0903@uic.edu](mailto:cjf0903@uic.edu).

### Wellness Center

The Wellness Center at UIC encourages students to make informed decisions about lifestyle choices by seeking up to date information and by following their own best instincts and values. The Center philosophy is to address wellness holistically. Its model embraces social, emotional, intellectual, sexual, occupational, environmental, spiritual, and physical well being. The Wellness Center offers workshops, special events, and consultations on topics such as alcohol use, nutrition, safe sex, sexual health, fitness, tobacco cessation, adult CPR, stress management, body image, self-esteem, and communication skills.

The Wellness Center is located at 503 Chicago Circle Center, (312) 413-2120, (<http://www.wellctr.uic.edu>).

## Office of International Services

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**Director:** Miriam C. Schoeman.

The Office of International Services is located in 2160 Student Services Building, (312) 996-3121 (e-mail: [OIS@uic.edu](mailto:OIS@uic.edu), website: <http://www.uic.edu/depts/ois/>). It provides international students, scholars, faculty, and staff at UIC with a variety of services, including:

- Personal and group orientations to the University and community.
- Information and advisement on immigration regulations and preparation of documents for the U.S. Immigration and Naturalization Services and the U.S. Department of State.
- Endorsements, recommendations and approvals for extensions of programs, on-campus work clearance and off-campus work permission.
- Preparation of documents required by foreign banks and governments, including letters of attendance and university expenses.
- Information about cross-cultural activities and programs with a view to supporting adjustment to the U.S. and promoting cultural diversity in the University community.
- Liaison with community service organizations.

All international students, scholars, faculty, and staff should visit the office within the first two weeks of arrival at UIC.

## Student Information Network Center

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**Contact:** Elizabeth Dooley.

The Student Information Network Center (SINC), located on the first floor of Chicago Circle Center and on the first floor of the Student Services Building, is designed to serve the information needs of faculty, staff, students, and campus guests. The SINC staff of student workers is trained to answer questions about University policies and procedures, campus events and campus services. SINC will answer inquiries in person as well as by telephone at (312) 996-5000. Campus maps, shuttle bus schedules, handbooks, brochures and other informational publications are available in SINC.

The SINC offices are open Monday through Friday from 8:00 a.m. to 6:00 p.m.

## Office of Career Services

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**Director:** Andrés Garza.

Career Services provides comprehensive services to assist students in choosing a career and preparing to enter the job market. Students from all majors are invited to explore office resources and services early in their UIC career in order to maximize the effectiveness of their career planning. More than 200 companies, agencies, and schools participate in Career Services' on-campus interview program, and more than 400 organizations participate in a variety of career days. Resumes of graduating students, who have registered with our office using E-Recruiting, are provided to employers throughout the year. All students are encouraged to put their resumes on the E-Recruiting system.

The Exploration Center in the Office of Career Services houses job listings in binders and on the MonsterTrak Internet listing site. It also holds a collection of videotapes and publications on different careers, jobs, market trend information, resumé and cover letter writing and interview strategies. Students may use SIGI + , a computerized interactive career guidance program that is similar to an interest inventory, but gives additional career information that matches their particular skills, interests, and values. Career Search is also available for students who want to identify potential employers across the country by particular industry or job type. Graduate and professional school information is also available for those students interested in continuing into postgraduate education.

The office also offers Career Preparation Seminars for seniors and graduate students during the fall and spring semesters. The seminars prepare students for job searches and include helpful



information on resumé and cover letter writing, networking, interviews, and more. Mock interviews are also conducted to help students hone their interviewing skills. Individual career counseling is available for students of all majors and interests.

Special services for education majors include a credential file service and an education vacancy bulletin available on-line or by mail. Education majors should immediately set up credential files when they are placed in student teaching positions by the college. For current information on job fairs and career events for teachers, call (312) 413-2424.

All students are strongly encouraged to become familiar with the Office of Career Services before their senior year. Career Services is located in Suite 3050 of Student Services Building. Many of the office's services and additional information may be obtained through its home page at <http://www.uic.edu/depts/ocs> or by calling (312) 996-2300.

## Office of Student Employment

**Coordinator:** Amira Ghadeer.

The Office of Student Employment provides students with assistance in identifying part-time employment both on and off-campus including Federal Work Study positions. Jobs are posted on the Internet and on bulletin boards. Assistance is also provided to students in preparing resumé and cover letters. The office operates the Student Temporary Services that places students in temporary on-campus work assignments based on class schedule and departmental requirements and the Job Location and Development program that matches students with off-campus employment opportunities that are major or career-related. As part of these services the office hosts the On-Campus, Seasonal and Internship and Part-Time Job Fairs. The Office of Student Employment is located in Suite 2200 Student Services Building. Additional information may be obtained by viewing their home page at <http://jobs.studemp.uic.edu> or by calling (312) 996-3130.

## Children's Center

**Director:** Nancy L. Fineberg.

Full-time day care is available to children of UIC students, faculty, and staff at two on-campus sites: 287 Roosevelt Road Building and 116 Applied Health Sciences Building. Children must be toilet-trained and at least 2 years, 9 months and not more than six years of age.

. Rates are on a sliding scale based on family income and other financial resources.

The Children's Center serves as a practicum site for students in a variety of disciplines and as a demonstration program for an early childhood curriculum informed by the theory of Jean Piaget. The center is also a resource for faculty and students who wish to do research with and for the benefit of young children and their families. The center's and University's research guidelines, including notification of parents, must be followed in planning and carrying out research activities. For an application and further information, call (312) 413-5330.

## Campus Stores

**Director, Retail Operations:** Loreen Maxfield.

### Bookstores

The *UIC Bookstore*, located in Chicago Circle Center, stocks required texts for classes on the east side of campus. It also stocks

school, art, and lab supplies, cards and gifts, electronics, and an array of Flames and UIC logo apparel.

The *UIC Medical Bookstore*, located in the Chicago Illini Union, stocks required texts and syllabi for health sciences classes, plus uniforms, medical instruments, and school supplies. Popular and general interest books, cards, games, Flames and UIC apparel, and gift items are sold there as well. Convenient services include microscope rentals, photo developing, and special orders.

### Convenience Stores

Four convenience stores on campus sell snacks, candy, newspapers, over-the-counter medications, hygiene and personal care items, small gifts, and sundries. Halsted Street Station is located on the second floor of Chicago Circle Center, Union Station on the first floor of Chicago Illini Union, Wood Street Station at 840 South Wood, and Morgan Street Station in the Behavioral Sciences Building.

### Micro/Station

The Micro/Station is UIC's computer store located in each of the bookstores. It offers a variety of computers, software, and peripheral equipment at significantly discounted prices for students. Phone (312) 413-5539.

## Campus Housing

**Director:** Anthony Martin.

The residence Life Program at UIC is committed to assuring that residential students experience the full academic and social benefits of living in UIC Campus Housing.

UIC offers comfortable and affordable residence halls, which include traditional, cluster or suite style rooms, and apartment style rooms. Each of the residential facilities on campus is air-conditioned, fully furnished, carpeted and connected to one of the Campus Unions in each location by way of a weather-protected link. Connection to the Chicago Circle Center on the east side or the Chicago Illini Union on the west side provides residents with easy access to a wide assortment of service and program facilities such as a bookstore, dining facilities, a fitness center, a travel agency, a copy center, meeting rooms and social event rooms.

Housing assignments are based on the date of application. Because demand usually exceeds available space, *students are strongly encouraged to apply by April 1st or earlier in order to receive a housing assignment before the beginning of fall semester.* Students should not apply for housing until they have been accepted to UIC. A student's priority date for housing will be based on either (1) the date of a student's housing application or (2) the date of a student's admission to the University, whichever is later.

New freshmen and transfer students are encouraged to state preferences for traditional double rooms found in Student Residence Hall, Polk Street Residence, Commons South and Commons West, as this is the best way to get to know other residents. Please note that the small number of single rooms in the residence hall system are usually taken by returning students - one of the benefits of continuing as a resident student at UIC. Requests for accessible housing should be made as soon as possible.

For more information about the on-campus housing program, contact the Campus Housing Office (MC 579), 818 South Wolcott Avenue, Room 220, Chicago, Illinois 60612-3727, or call (312) 355-6300. Please ask for the general information brochure. Questions may also be directed to the Campus Housing email address at



housing@uic.edu. Information is also available on the Campus Housing website located at <http://www.uic.edu/depts/house>.

## **East Side Housing Complex**

### **Commons Building**

This facility is made up of three sections: Commons North, South, and West. Commons North has six-person single room clusters and is reserved for graduate students and undergraduates who are at least 21 years old. Both Commons South and Commons West have traditional double rooms and community baths, and are available to any student. Commons South houses students participating in the First Year Experience (FYE) program. Commons West also houses the Engineering floor and the Honors Floors, special living/learning floors open to Honors College students. The entire facility is air-conditioned and carpeted. Laundry rooms, study areas, a computer lab, and lounges are also located in the Commons Building.

### **Courtyard Building**

The Courtyard Building has a unique and modern architectural design and is made up of three- to nine-person clusters with a common bath in each cluster. It is air-conditioned and carpeted throughout, with installation of new carpeting and paint for each room and the corridors scheduled to be done one floor at a time over the next few years. Courtyard also houses the President's Award Program floor. The Courtyard Building has study rooms, a TV lounge, and laundry facilities for use by all resident students.

## **West Side Housing Complex**

### **Student Residence Hall (SRH)**

Although there are a few single rooms in SRH, most rooms are traditional doubles—two students share a room, each having their own bed, desk, closet, dresser, and bookshelf. Rooms in SRH are air-conditioned and a complete renovation of the building with new carpet and paint for each room and corridor was finished in Summer 2000. There are two bathrooms located in the central area of each floor. SRH also houses the Wellness/Health Professions floor and students participating in the First Year Experience (FYE). A laundry room, a central lounge/television room, a study room, a kitchenette, and a computer lab are available for student use.

### **Polk Street Residence (PSR)**

PSR reopened in Fall 2002 after a complete renovation which transformed it from a traditional residence hall into a suite-style building with students sharing small semi-private bathrooms. Each of five co-ed floors has 25 students, and there is a laundry room on each floor. This hall also has a Faculty Member in Residence as well as several new conference rooms.

### **Single Student Residence (SSR)**

SSR is an apartment-style residence hall for graduate students and undergraduates who are at least 24 years old. Several floors have been designated for undergraduates who are at least 21 years of age. SSR also houses the Nursing Floor for any student who is a nursing major. Each unit has two to four students. Apartments have a private bedroom for each resident, and a kitchen and bathroom which are shared by the residents in the apartment. Laundry facilities are available on the lower level. The space in SSR is contracted by academic year or the academic year plus the summer session. A room-only contract is utilized for students living in SSR; no board plan is required.

## **South Side Housing Complex**

### **South Campus Apartments**

In August 2001, Marie Robinson Hall, the first of two South Campus student apartment buildings, opened with 350 residents, and the companion building, Thomas Beckham Hall, is scheduled to open in Fall 2003 with an additional 450 residents. Each student in these new facilities has an individual private bedroom while sharing a living room, dining room, kitchen and bathroom facilities with several other students. With our room reservation process giving returning residents a priority in selecting specific spaces, it is anticipated that most if not all of those new apartment-style spaces will be reserved by returning residents.

### **Live-in Staff**

A paraprofessional staff of resident assistants is available in the residence halls to aid residents in creating a viable living/learning community on the floor and to help students with personal problems and academic questions. Peer mentors work with first year students with their transition to college life and assisting with academic concerns. In addition, there are professional resident directors, experienced in working with students, assigned to each building. The resident directors supervise the resident assistants, advise residence hall government and assist with general student concerns.

### **Residence Hall Association (RHA) and the National Residence Hall Honorary (NRHH)**

RHA is a resident student governing body. The purpose of RHA is to enhance overall student life through social, recreational and educational programs, and to be the resident's advocate to bring recommendations and concerns about current housing and University policies and procedures to the various components of the campus community. NRHH works within the RHA to recognize outstanding student leaders who contribute to the residence halls.

### **Summer Housing**

At least one residence hall is open during the summer session (late May through late July). The exact location for summer school housing is determined after evaluating the number of student requests, maintenance schedules, and conference operations. Information and applications for summer housing will be available in March of the spring semester.

### **Off-Campus Housing**

Campus Housing provides off-campus housing assistance. Students and staff wishing to take advantage of this service should contact: Off-Campus Housing (MC 117), 700 South Halsted Street, Room 2029, Chicago, Illinois 60607-7014. Call (312) 355-6502 or e-mail [mej@uic.edu](mailto:mej@uic.edu) for more information. Current listings are posted on the bulletin boards on the first floors of the Campus Unions near the entrances to the cafeterias.

## **Campus Unions**

**Director:** Robert M. Rouzer.

Campus Unions serves as the focal point for out-of-class life at the University of Illinois at Chicago. Two facilities are available to serve the needs of UIC students, faculty, and staff. The Chicago Circle Center (CCC) located at 750 South Halsted, and the Chicago Illini Union (CIU) located at 828 South Wolcott, act as informal meeting places and a home away from home for commuter and

resident students alike. The following programs, services, and facilities are located in the Campus Unions.

## **Art Galleries**

The galleries feature work of UIC artists as well as others of local, national, and even international reputation. Exhibits change frequently, and a free opening reception for each exhibit offers an opportunity to meet artists and discuss their work. Consult the UIC campus newspapers for news of upcoming exhibits. Galleries in the Campus Unions include A. Montgomery Ward Gallery, on the second floor, north end of CCC and the Art Lounge, on the first floor of CIU.

## **Bulletin Boards**

There are bulletin boards all over campus filled with notices of general interest to the UIC community. Some specifically designated bulletin boards are worth mentioning.

In CCC, books and other items for sale are advertised in the second floor link between the central area and the north end of the building. To use this board, see the receptionist in the Campus Programs Department, Room 300 CCC. The housing board, located outside the cafeteria on the first floor, is maintained by the Off-Campus Housing Department, Room 2028 SRC. Campus Auxiliary Services Employment at Room 703 CCC manages the employment board, located across from the housing board.

In the Chicago Illini Union, rides, items for sale, and housing are advertised in the east corridor on the first floor. Obtain the standardized card needed from the Campus Information Center located in the CIU lobby.

## **Campus Information**

For campus maps, phone numbers, CTA and campus shuttle schedules, brochures, handbooks, and a wealth of other information for UIC students, visit the Campus Information Center in the first floor lobby of CIU, or SINC (Student Information Network Center) in the east concourse of CCC or the first floor of the Student Services Building.

## **ACCC Computer Lab**

The ACCC Computer Lab, Room 401 CCC, offers students, faculty, and staff 69 Dell 166 MHz Pentiums with 32 MB RAM, CD ROMs, and Soundblaster cards running MS-Windows or DOS. Two-sided PostScript laser printing is also available for a nominal fee. The ACCC Computer Lab is open Monday through Friday, 9:00 a.m. to 9:00 p.m. Other ACCC sites are found in BGRC, SEL, SRC, BSB, LIB, SSB, and SRH.

## **Banking**

Credit Union 1 is located on the second floor of CCC and offers banking functions such as checking accounts, savings accounts, and credit cards. CU1 also provides check cashing and money orders for faculty, staff, and students, both CU1 and non-CU1 account holders.

## **ATMs, CTA Passes, UIC Bus Tickets and Stamps**

Automated Teller Machines (ATMs) are located in the west concourse of CCC, the second floor of Student Residence and Commons, the first floor of the Student Residence Hall, the first floor of the Marshfield Building, and the first floor of the UIC Medical Center. CTA passes and UIC bus tickets are available at the Service Center on the second floor of CCC and the Campus Information Center in CIU. Stamps can be purchased from the

machine on the second floor of CCC, the Campus Information Center in CIU, and in the Marshfield Building.

## **Campus Union Board**

The Campus Union Board (CUB) acts as an adviser to the Director of Campus Unions, communicating the needs and wishes of Campus Unions users. Board members influence food service, retail operations, programs, recreation, building use, and other aspects of Chicago Circle Center and Chicago Illini Union business. To become involved or to contact current board members, call (312) 413-5085 or (312) 413-5111.

## **Game Rooms**

For relaxation, both CIU and CCC offer bowling lanes, pinball, billiards, and video games. In the Chicago Illini Union, visit the Game Room on the court level, phone (312) 413-5268. In the Chicago Circle Center, games are located on the first floor of the south wing, phone (312) 413-5170.

## **Haircuts**

Unisex hair styling, shampoos, and shaves are provided by the barbershops. Appointments are not always necessary. Barbershops are located on the first floor, south wing, of Chicago Circle Center, (312) 996-8623, and on the lower level of the Chicago Illini Union (312) 413-5255.

## **Lounges**

### **Chicago Circle Center**

**A. Montgomery Ward Lounge** - north end, second floor. Informal ambience.

**Pier Room** - second floor. Seating at tables and chairs. An array of vending machines for snacks.

**Inner Circle** - second floor. Large seating area, a wide variety of fast foods, including Wendy's, Sbarro, and Subway. Occasional live entertainment.

### **Chicago Illini Union**

**Lobby Lounges** - first and second floor lobbies. Comfortable seating.

## **Newspapers**

The University newspaper, *UICNews*, and the student newspapers, *Chicago Flame* (weekly) and *UIC Today* (daily) are available in bins around the campus. The *Reader* is distributed free at the Chicago Circle Center and the Chicago Illini Union as well as in bins around the campus.

## **Programs, Organizations**

Movies, concerts, fashion shows, comedy, ballet, celebrity lectures, and poetry readings—there is a cultural or entertainment event happening almost every day at UIC. Many are planned by the Campus Programs Department and the Campus Union Board Program Committee, located in Chicago Circle Center and Chicago Illini Union. Consult the campus newspapers and bulletin boards for news of upcoming events, or call (312) 413-5070 or (312) 413-5180.

Campus Programs Department advises the 230 student organizations that are active on campus each school year. This office registers organizations, helps them to establish their structure, and aids them in planning events, reserving space, and conducting promotions.

Student participation in event planning and organization leadership is encouraged as a means of learning by practical

experience. For information about the Campus Union Board Program Committee call (312) 413-5180 or (312) 413-5070.

Advice and assistance with regard to student organizations, activities, and student government are provided to students in the health sciences colleges by the Office of Student Affairs, Suite 3030 SSB, (312) 996-4944.

### **Tickets**

CTA passes and tokens, UIC commuter bus tickets, discount passes for Great America, local movie theaters, and selected Chicago-area theater and fine arts performances are sold at the Campus Information Center in CIU and the Service Center at CCC. These two locations also handle tickets for University-sponsored events and discount tickets for Ravinia.

### **Travel Agencies**

A privately owned travel agency has an office on campus to serve your business and pleasure travel needs. Hobbit Travel is located in CIU, phone (312) 996-4705.

## **Recreation**

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**Director:** Ray Clay.

Campus Recreation can be defined as facilities, programs and services. UIC has four excellent facilities and varied programs and services to meet your varied recreational needs. The CCC fitness Center is located in the south wing of the Chicago Circle Center, the Sport & Fitness Center is located on the court level of the Chicago Illini Union and PEB Recreation is located in the Physical Education Building. Adjacent to PEB is the South Field Complex. All recreation facilities can be used by currently registered students at no charge. These facilities are also open for use by other campus constituents for a nominal fee. Hours of operation vary at each facility. Call the individual location for the current schedule. Additional information may be obtained by viewing the website [www.rec.uic.edu](http://www.rec.uic.edu).

### **Facilities**

#### **Chicago Circle Center - Fitness & Bowling Centers**

The CCC Fitness Center offers activities convenient to users on the east side of campus. The Lower Level facilities include a 25-yard swimming pool, locker rooms, sauna, a weight room equipped with a Magnum Fitness weight training circuit, Stairmasters, Precor Elliptical Trainers, treadmills and exercise bicycles. On the first floor, the Bowling Center offers 16 bowling lanes, 16 pocket billiard tables, and a video/pinball arcade. On the second floor, the Upper Level Fitness Center includes five racquetball courts, a 'free weight' weight training room with LifeFitness and Hammer Strength equipment, and locker rooms. The outdoor tennis courts on Halsted Street are available on a first-come, first-served basis. Memberships for the CCC Fitness Center and locker rentals are available for faculty, staff, alumni, and general public users. For more information on the facilities or programs, call (312) 413-5150.

#### **Chicago Illini Union - Sport & Fitness Center**

The CIU Sport & Fitness Center is a hub of activity for west siders. The modern facilities include a 25-meter swimming pool, two racquetball courts, a state-of-the-art Fitness Court equipped with Cybex weight training equipment. The upper level fitness area includes; a cardiovascular training area equipped with Precor Elliptical Trainers, Stairmasters, treadmills, exercise bicycles, a 'free weight' weightroom, with LifeFitness and Hammer Strength weight equipment. Our multipurpose

gymnasium has a suspended running track and is available for drop-in activity. The daily use locker rooms, each with its own sauna, has rental lockers available on an annual basis. Memberships are available for faculty/staff members, alumni, and medical district affiliates. Information about CIU Recreation can be obtained by calling (312) 413-5260.

### **Physical Education Building Recreation**

The Physical Education Building is shared by the Athletics Department, the School of Kinesiology and Campus Recreation. Facilities available for recreation use within this building include: a weight training room, dance studio, two large gymnasiums, indoor running track, six racquetball courts, a squash court, and locker facilities. During the day, open recreation time is limited. From 5:30-8:30 p.m., the facility is used exclusively for free play and organized sport activities. Equipment for all activities can be checked out at the loan-out desk by leaving a student ID card as collateral. For information about recreation at the Physical Education Building, call (312) 413-5164.

The **Human Performance Laboratory**, located in the Flames Athletic Center, offers fitness testing, exercise prescription and personal instruction at an affordable price. They specialize in programs for healthy sedentary adult athletes up to the elite competitor. Stress EKG, underwater weighing, oxygen uptake, and pulmonary function are among the services that are available. Information about the program and appointments are available by calling the lab at (312) 413-5266.

### **South Field Complex**

The South Field Complex is a great place to challenge your outdoor recreation pursuits. Activity spaces are available for use from April through November. The complex includes six lighted tennis courts, four sand volleyball courts, a 7/8 mile jogging path, and two lighted multi-purpose fields. Most spaces are available throughout the day, but check with the Campus Recreation Office, 149 PEB, for availability. Schedules may change due to varsity athletic matches or practices. For more information, call (312) 413-5163.

### **Programs**

#### **Intramural Sports**

Structured and individual activities are offered at both the Physical Education Building and the CIU Sport & Fitness Center. Intramural competition complements the open recreation program offered in both facilities. All current UIC students are eligible to participate. The available sport activities include flag football, basketball, volleyball, floor hockey, soccer, tennis, racquetball, softball, and badminton. Team competitions change each semester and are offered in co-rec and open divisions. Individual/dual events are offered in men's and women's divisions. Entries are accepted from individuals and teams for all events. For information about the Intramural Sports program, call (312) 413-5165 or visit us on-line at <http://www.rec.uic.edu>.

#### **Sports Club Program**

Instruction and competition are available for those individuals whose interests lie above those of recreational athletes. The Sports Club Program offers competition and performance in men's volleyball, various martial arts, lacrosse, ultimate frisbee, dance, and men's and women's rugby. New clubs can be organized by any student. For information about club sports, or to organize a new club, call the Sport Club Director at (312) 413-5168.



## Services

### Group Fitness

Classes are available throughout the academic year and summer semester at all three Campus Recreation sites. Classes are structured for various fitness levels and include step, hi/lo, aqua, cardio boxing, sports conditioning, interval training and others. Specialty classes, at a slightly higher cost, include Pilates, Yoga, and YogaFit. Class schedules and offerings change monthly. Class costs are reasonable, and unlimited semester passes are available. Call (312) 413-5266.

### Personal Training

Strengthen your body and mind with the new Personal Training program. Personal Training is an individualized approach to fitness that focuses on positive lifestyle changes. One-on-one training provides motivation, proper technique, accurate progression, time efficiency, and faster results. The initial session includes a full assessment, orientation, and individualized exercise program design. Additional one-on-one sessions with the qualified fitness trainer of your choice are available at an additional cost. For more information about this program, call (312) 413-5266.

### Instructional Programs

These not-for-credit classes provide the UIC community an opportunity to broaden their horizons in a casual and comfortable environment for a reasonable cost. Choose from a variety of classes taught by qualified instructors who are patient and fun. Classes include: group tennis, private swim lessons, golf instruction, modern dance, beginning ballet and scuba. Class schedules change each semester. For more information about this program, call (312) 413-5266.

### Massage Therapy

Increase circulation, reduce stress, and detoxify your body through our therapeutic deep tissue massage. This program is designed to relieve chronic stress and tension by manipulating soft body tissues with our licensed massage therapists. Call (312) 413-5266 for more information.

### Rec Center Jobs

Campus Recreation is one of the largest employers of students on campus. Each facility offers employment opportunities with varying levels of responsibility. Some available jobs include desk attendants, lifeguards, fitness instructors, personal trainers, sport officials and supervisors. Hours and pay rates vary according to position. Call the individual site for further information.

## Room Reservations

Requests to use Campus Unions' space must be made through one of the reservations offices at least 48 hours in advance. Blackboards, projectors, and other audiovisual aids can usually be provided for a nominal charge. Requests for the use of outdoor areas must be submitted at least 30 days in advance, as special approvals are required. To reserve meeting rooms in the Campus Unions or the Student Services Building, contact the office of Meetings and Conferences at (312) 413-5040.

## Campus Dining Services

**Director:** Charles Ross.

Campus Dining Services operates the following food facilities in Chicago Circle Center:

*Center Cafe* is a full service cafeteria located on the first floor of CCC, serving breakfast and lunch daily. The cafeteria has recently been renovated to include Java City Coffee, Pan Geos, Kettle Classics, Salad Garden, Bene Pizzeria, Montague's Deli, Noodlebar, Home Zone Comfort Food and Tortilla Fresca.

*Inner Circle* food court is located on the second floor. Wendy's, Subway Sandwiches, Sbarro's and Burrito Bravo are open Monday through Friday for lunch and Monday through Thursday for dinner.

*Java City* is a full service espresso bar located in the lounge area at the top of the escalators on the second floor of CCC.

*The Hut*, located in the first floor entrance concourse of CCC, serves a quick lunch of hot dogs for those on the go.

*Cafe Des Cartes* serves hot and cold coffee beverages and pastry items in the concourse.

Vending machines are located throughout the building on the first and second floors.

Campus Dining Services operates the following food facilities in the Chicago Illini Union:

*The Market Place* on the first floor of SRH is scheduled to open after major remodeling in the winter of 2003. The stations will be similar to those in *Center Cafe* in CCC including a remodeled Subway Sandwiches. *The Marketplace* will serve all meal periods including late night hours for student resident population.

*Cafe Des Cartes* serves hot and cold coffee beverages and pastry items on the first floor of SRH.

*The Centennial Room* is located on the first floor of CIU.

*Centennial* is a more formal atmosphere serving lunch Monday through Friday.

Vending machines are located on the first floor of SRH.

In addition to the facilities in the two Union buildings, Dining Services has other units scattered across campus. *Skinner's Grill* on the first floor of BSB includes KFC express, Montague's Deli, Grill Works and Bene Pizzeria Express. *Skinner's* is open for breakfast, lunch and early dinner. *Bunsen's Cafe* on the second floor of SES offers grab 'n' go breakfast and lunch items for engineering students and staff. *The SRC Cafe and Market* are located in the Atrium on the first floor of SRC, and serves breakfast through late night service for the student residents. *Sbarro's On the Mall* is located on the west side next to the Polk Street "L" stop and is open Monday through Friday until 5 p.m. serving breakfast and lunch. *The Kitchen Cafe* is located in the basement of EEI serving quick breakfast and lunch items for guests on the run.

For more detailed information, please visit [uicdining.com](http://uicdining.com).

## Identification Cards

The UIC i-card is your official University ID card. It will give you access to appropriate services and facilities on campus. Most students will use it for the following (where applicable):

- Library
- Computer account creation
- Campus Recreation services
- Parking access
- Residence hall meal plan
- Building access
- HMO
- Check cashing
- Student rates for campus activities and services
- Verification of student status.

To obtain an i-card, bring a current semester schedule and a state ID, driver's license, or passport to the Photo ID Office, Room 1790



SSB, or Room 241 CIU. For more information about the i-card or office hours, please call the Photo ID Office at (312) 413-5940.

## Jane Addams Hull-House Museum

**Interim Director:** Margaret Strobel.

Jane Addams Hull-House Museum is a national historic landmark on campus commemorating the life and work of social welfare pioneer and peace advocate Jane Addams, the history of her settlement and the surrounding neighborhood. Two original buildings were restored by the University, the Hull Mansion (1856) and the Residents' Dining Hall (1907). A unit of the College of Architecture and the Arts, the museum contains original furniture, paintings, documents, and memorabilia relating to the history of Hull-House and the neighborhood. It is open for tours and other educational programs. Group tours require advance reservations. For more information, call (312) 413-5353.

## Lockers

Students, faculty, and staff may claim and attach locks to any unoccupied locker in the classroom buildings on the east side of campus. At the end of the summer session, all lockers must be vacated for annual cleaning. Locks that remain at this time are cut off and any contents of the locker are discarded.

For assistance in removing malfunctioning locks, call (312) 413-5100.

## Parking

**Director:** Wanda Perry.

At any given time there are 11,000 to 12,000 cars on the University of Illinois at Chicago campus. Campus Parking Services is responsible for providing safe, convenient, and affordable parking for these vehicles by:

- issuing parking assignments;
- providing cash lots for occasional drivers and visitors;
- operating and maintaining UIC's 43 parking facilities; and
- offering special services for special needs.

UIC parking lots are conveniently located throughout campus. Students with business on campus before the semester begins may park in any visitor lot. Consult the campus map included in this catalog for locations of visitor lots (parking fee paid for each entry) and controlled access lots (parking fee paid for each semester).

Students planning to drive to campus regularly may use visitor lots or purchase a card-access parking assignment. If you drive more than twice a week, it is usually more economical to purchase a parking assignment, which allows 24-hour access to an assigned lot. PM assignments are available at a reduced rate for students who attend only evening classes.

### How To Get a Parking Assignment

Students should decide early whether or not they will need to park on campus. New students may apply for a parking space for the fall semester either during the orientation program or beginning the last week of July; applications for the spring semester are available beginning the first week of December. The most conveniently located lots sell out first, so the choice of lots will be better if students apply early. Most lots are **closed for new assignments** two weeks before the semester begins.

Payment for the first semester of parking is due at the time of application. The 2002-2003 fee for parking is \$186 per semester,

\$125 per semester for PM assignment. Rates for the following year will be set in the spring.

Students will be issued a hangtag when they purchase parking. With the parking hangtag displayed on the rear view mirror and the UIC i-card, students have access to their assigned facility. Cars without hangtags parked in University lots and cars parked on surrounding city streets are subject to a citation and fine.

Students can renew their assignments for next year by mail. Campus Parking Services sends out applications early; renewal in a student's current lot is guaranteed if the application deadline is met.

For more information and a copy of the parking rules and regulations, students should see a customer service representative at one of the three office locations.

### Open 24 Hours

Students can park in any of the cash lots, which are attended Monday through Friday during regular business hours.

Cash lots are located on:

- Halsted between Polk and Taylor
- Paulina and Taylor
- Morgan at Roosevelt (surface lot)
- Harrison between Morgan and Racine
- Morgan at Harrison (surface lot)
- Wood at Taylor

### Visitor Parking

The UIC campus is active 24 hours a day. The Halsted-Taylor parking structure and the Paulina Street parking structure at Paulina and Taylor are open 24 hours a day, seven days a week. Most other cash lots are open until 10:30 p.m.

### Special Services

Campus Parking Services offers the following special services:

- Escort service within the Halsted-Taylor, Harrison-Racine, Paulina Street, and Wood-Taylor parking structures
- Handicapped parking spaces
- 24 hour dispatch
- Jump starts
- Vehicle lock-outs
- Flat tire inflations

For any of the above services, call (312) 355-0555.

*Campus Parking SSB (MC 047)*  
2620 Student Services Building  
1200 West Harrison Street  
Chicago, Illinois 60607-7164  
(312) 413-9020

*Campus Parking SRH (MC 579)*  
217 Student Residence Hall  
818 South Wolcott Avenue  
Chicago, Illinois 60612-7349  
(312) 413-5850

*Campus Parking Administration (MC 044)*  
122 Wood Street Parking Structure (WSPS)  
1100 South Wood Street  
Chicago, Illinois 60612-7349  
(312) 413-5800

## **UIC Pavilion**

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The UIC Pavilion is a multipurpose 10,000 seat arena used for a variety of events including basketball, concerts, circus, ice shows, conferences, convocations, and many others. Last year, nearly 20 years after it was built in 1982, the Pavilion underwent a major renovation project. As part of the renovation, the Pavilion has a new glass entrance, indoor atrium, new concession stands, guest service area, new box office, and many other major amenities that would make the Pavilion more user friendly. It is the home of the UIC Flames men's and women's basketball teams and also provides employment opportunities for the UIC students. For additional information, call (312) 413-5700.

# Student Life

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Student life on the campus of the University of Illinois at Chicago does not consist entirely of attending classes, meeting with professors, conducting research in the libraries, and spending long hours in engineering, science, and computer laboratories. There are many campus organizations and activities that contribute to the fabric of life at UIC. Lectures, films, performances by musicians and singers and dancers, poetry readings, and art exhibits are just some of the extracurricular activities that occur on a daily basis.

Student groups, such as intramural sports teams, local and national chapters of fraternities and sororities, ethnic clubs, and academic and preprofessional organizations, provide the student body with outlets for participating in the kinds of activities that augment their studies or offer leisure-time pursuits. Some of the more active academic and preprofessional groups include:

- Accounting Club
- Alpha Phi Sigma
- American Chemical Society Students Affiliates Chapter
- American Institute of Architecture Students
- American Institute of Chemical Engineers
- American Marketing Association
- American Society of Civil Engineers
- Arquitectos
- Association for Computing Machinery Student Chapter
- Association of Premedical Students
- Athletic Trainers Association
- Beta Alpha Psi
- Beta Beta Beta Biological Honor Society
- Business Students Organization
- Chemistry Graduate Students Forum
- Collegiate Entrepreneurs Organization
- Collegiate Finance Organization
- Criminal Justice Society
- Economics Club
- Eta Kappa Nu
- Future Teachers Club

- Golden Key National Honor Society
- Health Oriented Latino Association (HOLA)
- Human Resource Management Association
- Information and Decision Sciences Organization
- INFORMS (Institute for Operations Research and Management)
- Institute of Electrical and Electronics Engineers
- Institute of Industrial Engineers
- Latino Association of Business Students
- MBA Association
- Midwest Association of Hispanic Accountants
- National Association of Black Accountants
- National Association of Minority Architecture Students
- National Society of Black Engineers
- National Society of Collegiate Scholars
- Pi Tau Sigma, Alpha Sigma Chapter
- Pre-Applied Health Sciences
- Pre-Dental Club
- Pre-Pharmacy Club
- Pre-Veterinary Student Association
- Professional Engineering Societies Council
- Society of Automotive Engineers
- Society of Future Physicians
- Society of Hispanic Professional Engineers
- Society of Physics Students
- Society of Women Engineers
- Tau Beta Pi
- Urban Planning and Policy Student Association

Whatever extracurricular interest students might have, the campus of the University of Illinois at Chicago is very likely to sponsor an organization or activity to suit the needs of its student body. In addition, students regularly organize new groups. The Student Organization Resources Office of Campus Programs assists students interested in creating new organizations.

# College of Applied Health Sciences Contents

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# College of Applied Health Sciences

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## 808 South Wood Street

169 CME, (MC 518)

**Dean:** Charlotte A. Tate.

**Executive Associate Dean, Academic Affairs and Research:** June Wencel-Drake.

**Assistant Dean, Advancement :** Lisamarie Lukas.

**Assistant Dean, Student Affairs:** Rachelle S. Stewart.

**Director, Urban Health Program:** Jeff Brown.

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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 four departments: Disability and Human Development, Human Nutrition, Occupational Therapy, and Physical Therapy; and two schools: Biomedical and Health Information Sciences and Kinesiology.

A variety of degree programs is offered in the areas of biomedical visualization, health information management, human nutrition, kinesiology, medical laboratory sciences, occupational therapy, and physical therapy. The college offers bachelor's degrees, eight master's degrees (including five cooperative programs), and four doctoral programs.

The research efforts of the multidisciplinary faculty are directed toward new and applied knowledge in aging and disability, health information sciences, health promotion and disease prevention, and maternal and child health. The college's research and educational programs are substantially strengthened by the unification of some 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 health care 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

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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

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With the exception of the School of Kinesiology, the course of study in the College of Applied Health Sciences generally is arranged in two phases: completion of preprofessional course work at an accredited college or university and two years of professional course work at UIC leading to baccalaureate degrees in health information management, human nutrition, and medical laboratory sciences. The School of Kinesiology accepts students at the freshman level and awards the BS in Kinesiology.

Prerequisite courses equivalent to those offered by the University of Illinois at Chicago may be completed at any accredited college or university.

**(312) 996-6695**

The college programs coordinate classroom instruction with clinical experience in a variety of health care 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 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 professional occupational therapy program is offered at the master's level (M.S. in Occupational Therapy). 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 <http://www.ahs.uic.edu/> or the Department of Physical Therapy at (312) 996-1505 or <http://www.uic.edu/ahp/pt>.

## Preadmission Counseling

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For information about transfer credits and prerequisite course work, please contact the Office of Admissions and Records preadmissions counselors at (312) 996-4350.

## Applying from Another UIC College

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Current students who desire to apply to a College of Applied Health Sciences program from another college at UIC must complete an Intercollege Transfer form (for Kinesiology) or a program-specific application by the deadline date. These forms are available in the Office of Admissions and most college offices. The completed form(s) should be returned as directed.

## Admission Requirements

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Students seeking admission must: (see the admission section under Kinesiology for Kinesiology)

- Submit a completed application form accompanied by a \$40.00 nonrefundable fee, which must be submitted at the time of application (no fee for UIC transfers).
- Complete all specific course prerequisites prior to admission to the college.
- Attain specified cumulative and/or prerequisite grade point averages.
- Complete 60 semester or 90 quarter hours of preprofessional course work.

Application forms, transcripts, and other documents are required of all applicants and must be complete and on file by published deadlines.

Application packets are available from the Office of Admissions and Records (MC 018), The University of Illinois at Chicago, Box 5220, Chicago, Illinois 60680-5220.

## Specific Cumulative GPA/Class Standing Requirements

**Health Information Management:** 3.00 (A = 5.00) or 2.0 (A = 4.00) and eligibility for junior status.

**Human Nutrition:** 3.50 and eligibility for junior status.

**Kinesiology:** admits at the freshman level; admission is based on satisfactory combination of ACT (or SAT) score and class rank.

**Medical Laboratory Sciences:**<sup>1</sup> 3.00 and eligibility for junior status. Career mobility students must be eligible for senior status.

## Specific Course Prerequisites

With the exception of the School of Kinesiology, each program requires candidates for admission to have successfully completed specific courses prior to admission to the college. A complete list of course prerequisites is included in this catalog within the description of each academic program or can be found under College of Liberal Arts and Sciences *Requirements for Preprofessional Curricula*.

## Credit by Proficiency Examination

Credit may be awarded for previous academic experiences that can be validated through proficiency examinations administered by the various programs of the college. An enrolled student who passes a proficiency examination is given the amount of credit toward graduation regularly allowed in the course, provided it does *not* duplicate credit counted for admission to the University or credit earned through some other testing program.

## Selection of Applicants

In considering applications for admission, the Committee takes into consideration information obtained from all components of the application. 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 uniform ranking 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 and/or skills that would be gained through taking the required course(s). The Admission Committee reserves the right to waive other specific nonessential requirements when indicated by unusual circumstances.

## Urban Health Program

The University of Illinois at Chicago's Urban Health Program represents a major effort to increase minority student enrollment in schools and colleges on the campus and to improve health care services in Chicago's underserved communities. As one of its services, the College of Applied Health Science's Urban Health Program staff offers assistance in academic planning and career selection to prospective students. Support in the admissions process is also provided. Those seeking advisement should contact:

Urban Health Program (MC 528)  
College of Applied Health Sciences  
University of Illinois at Chicago  
1919 West Taylor Street, Room 560  
Chicago, Illinois 60612-7305  
(312) 996-2084

## Academic Advising

Academic advising is available through the college Office of Student Affairs (312) 996-2084, and counseling on the programs and/or prerequisites is available *by appointment* or group sessions through the specific programs. Students are assigned a faculty adviser during the year of matriculation.

## Scheduling of Programs

All College of Applied Health Sciences programs are full-time day programs. Additionally, Health Information Management offers a part-time day program for registered health information technicians (RHITs), and the Medical Laboratory Sciences' Career Mobility Program offers a part-time option for students who are certified or certifiable medical laboratory technicians and wish to complete their degree over a two-year period.

## Graduation Requirements

Each candidate for the Bachelor of Science degree in the College of Applied Health Sciences must complete the courses required by the program and maintain an acceptable level of academic achievement. A minimum of 120 semester hours of credit is required for the baccalaureate degree.

### Cultural Diversity Requirement

All students are required to successfully complete an approved course in cultural diversity for graduation. This course may be taken as a prerequisite and may partially satisfy one of the general education requirements in the humanities or social sciences. A list of approved cultural diversity courses may be found in the *College of Liberal Arts and Sciences* section of this catalog. Also, selected programs in the College of Applied Health Sciences may offer a cultural diversity course as part of their academic programs.

### Minimum Scholarship Requirements

Academic programs may require a minimum grade of "C" in selected, specific courses. Students are informed of such requirements in writing at the beginning of the first term they are registered in the college.

All candidates for a degree must have at least a 3.00 (A=5.00) or 2.00 (A=4.00) grade point average for all UIC credits counted for graduation requirements and at least 3.00 for the combined transfer and UIC credits counted for graduation requirements.

### 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 residence uninterrupted by any work in another institution.

1. Until further notice, no new students will be admitted to the Medical Laboratory Sciences program.

## Academic Honors

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### Graduation with Honors and High Honors

Honors will be awarded to all students who have achieved a college cumulative grade point average of 4.50 to 4.74 (A=5.00). High honors will be awarded to all students who have achieved a college cumulative grade point average of 4.75 or higher. The honors and high honors designations are noted on the diploma and in the commencement program. Students in the top 3 percent of the graduating class will receive University Honors recognition.

### Dean's List

The purpose of the Dean's List is to honor each semester academically outstanding students enrolled in the college's undergraduate programs.

The student must be a full-time student and have earned at least 12 semester hours in his or her respective department or school. The student must also have earned a semester grade point average of 4.50 (A=5.00) or 3.50 (A=4.00) or higher for that semester.

## College Policies, Rules, and Regulations

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*Effective with the Fall 2004 term, UIC will convert its grading point system to a 4.00 scale where 4.00=A.*

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 of appeal of adverse decisions. Students should refer to their program handbooks for *specific* information.

### Academic Performance

It is required that a student 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. 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.

### 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. 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.

## Repeated Courses

A course for which a grade of "E" is received must be repeated with an earned grade of "C" or higher. Both grades will remain on the transcript. All repeated courses must be successfully completed prior to taking subsequent courses for which the initial course is a prerequisite. If a student 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.

### Academic Probation

Not all programs in the college recognize 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 3.00 (A=5.00) or 2.00 (A=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 3.00 for each semester completed in the College of Applied Health Sciences;
3. a cumulative grade point average of 3.00 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 3.00 to maintain a grade point average of 3.00 or above for all work in the College of Applied Health Sciences. Generally, probation shall not extend beyond one semester.

### Dismissal Policy

The College of Applied Health Sciences reserves the right to terminate a student's enrollment from the college. 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 deem 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 of 3.00 (A=5.00) or 2.00 (A=4.00), or the program minimum requirements (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. non-satisfactory progress toward completion of the degree requirements.

### Progression to Clinical Field Work

Students must complete required course work prior to assignment for clinical/field work experience. They must show readiness for the experience by having achieved performance levels related to the clinical field work that are consistent with

safety and technical standards defined in specific program objectives.

Prompt and regular attendance is required for all clinical field work 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 health care 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 needs, 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.

## **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.

## **Student Organizations**

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Students have a variety of student organizations available to them within the college, ranging from professional and fraternal societies and organizations to student government. Involvement in student organizations can enhance the learning experience and aid in the development of valuable leadership skills.

Each class in the college has four class officers who are elected during the fall semester of each year and two representatives who represent their class on the Student Council.

## **Scholarships, Prizes, and Recognition**

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Students in the College of Applied Health Sciences may be eligible for special awards and scholarships in addition to those available through the Office of Student Financial Aid. For more detailed information consult *Scholarships, Prizes, and Awards of Recognition in the Financial Aid* section of this catalog.



# Biomedical and Health Information Sciences

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**250 Applied Health Sciences Building**

**(312) 996-6317**

**Interim Director, School of Biomedical and Health Information Sciences:** Annette L. Valenta.

**Program Director, Health Information Management:** Karen Patena.

**Program Director, Medical Laboratory Sciences:** Donna Weaver.

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In 1994, Biomedical and Health Information Sciences (BHIS) was created within the College of Applied Health Sciences at the University of Illinois at Chicago to signify the united commitment of biomedical visualization, health information management, and medical laboratory sciences. The establishment of BHIS created a unit focused on the study, practice, and facilitation of health information technology, education, research, and bioscience.

The mission of Biomedical and Health Information Sciences is to advance the quality and efficiency of health care through improved information management, communication, and the generation of new forms of biomedical and other health care data. The goals of the school are leadership, innovation, initiative, and quality with strong focus on the unique arena of health informatics at the University of Illinois at Chicago.

The school actively supports the central mission of the College of Applied Health Sciences by facilitating innovative educational and research programs, providing leadership within school disciplines to meet current industry challenges, and ensuring that graduates have a competitive edge in the increasingly demanding health informatics marketplace. The school strives to produce health care professionals who can effectively partner with and/or lead information technology professionals in the problem-solving activities of their organizations.

The School of Biomedical and Health Information Sciences offers undergraduate programs leading to the Bachelor of Science in Health Information Management and the Bachelor of Science in Medical Laboratory Sciences. The online undergraduate brochure for Health Information Management is available at <http://www.uic.edu/ahs/sbhis/him/him.htm>, and for Medical Laboratory Sciences at <http://www.uic.edu/ahs/sbhis/mls/mls.htm>. Correspondence to the school should be directed to:

Office of Undergraduate Programs, (MC 530)  
School of Biomedical and Health Information Sciences  
College of Applied Health Sciences  
University of Illinois at Chicago  
1919 West Taylor Street, Room 250 AHSB  
Chicago, Illinois 60612

or email at [SBHISundergrad@uic.edu](mailto:SBHISundergrad@uic.edu). For more information about the school, visit the website at <http://www.sbhis.uic.edu/ahs/sbhis/academic.htm>.

## Health Information Management

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The Health Information Management undergraduate degree program provides skilled instruction in the management and use of information and information systems for health care 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's) are responsible for the management of health information systems consistent with the medical, administrative, ethical, and legal requirements of the health care delivery system. RHIA's often have opportunities to develop information systems for quality patient care, facility reimbursement,

medical research, health planning, and health care evaluation. Administrative duties of the RHIA encompass responsibility for personnel, capital equipment selection, systems design and analysis, hospital committee activities, and budget management. RHIA's also provide health information to qualified users and safeguard confidential patient data. The job forecast for RHIA's is positive, not only in hospitals but also in other health care 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 health care organizations.

## Bachelor of Science in Health Information Management

The Health Information Management program is full time and begins with the fall semester. It is accredited by the Commission on the Accreditation of Allied Health Educational Programs (CAAHEP) in cooperation with the American Health Information Management Association's (AHIMA's) Council on Accreditation. A part-time day program is available for registered health information technicians (RHITs), but enrollment is limited. Although health information technician course credits do not count toward the required 60 semester or 90 quarter hours of prerequisites, RHITs with passing scores on required validation examinations administered by school faculty are not required to enroll in certain courses.

Graduates receive a bachelor of science degree in health information management and are eligible to register for the national RHIA credential examination offered by AHIMA.

## Admission Requirements

Students seeking admission must meet these minimum requirements:

- Junior standing with 60 semester or 90 quarter credit hours of acceptable preprofessional course work completed at an accredited college/university;
- successful completion of required courses equivalent to the academic prerequisites listed before enrollment;
- cumulative grade point average of 3.00 on a 5.00 scale (2.00 on a 4.00 scale) for all completed undergraduate studies;
- international students must have a Test of English as a Foreign Language (TOEFL) score of 550, or 213 on the Computer-Based Testing (CBT), or above;
- 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 school faculty and submission of three references; and
- thorough understanding of the professional health information manager's role and responsibilities.

Students with international course work should present original transcripts by November 15 - or an evaluation conducted by the Education Credential Evaluators by February 1 - to the Office of Admissions and Records.

Application forms and credentials (i.e., transcripts and letters of recommendation) must be complete and postmarked by March

31 in the year of intended enrollment. Because UIC is a state-supported institution, admission of non-Illinois residents is generally limited to 10 percent of the incoming class. All applicants who meet the admission requirements and have complete applicant files are considered for admission.

Application files are used to determine the position of each applicant in a uniform ranking system. This uniform ranking scale is based on both academic and nonacademic criteria.

### Degree Requirements

For the Bachelor of Science in Health Information Management, 123 semester hours of credit distributed as follows:

#### Prerequisite Courses

(60 semester hours)

	Hours
Engl 160, 161	6
Natural sciences: BioS 100 and <i>one</i> additional Natural Science course	8–10
Human anatomy and physiology: Kine 251, 252	10
Math 118 or 121	5
Psch 100, 242	7
Social Sciences	3
Humanities	6
Cultural Diversity Course <sup>a</sup>	3
Computer science: IDS 100	4
Electives to complete the required total of 60 hours of prerequisites. (Six elective hours must be taken in the Humanities, Natural Sciences, or Social Sciences.)	6–8

<sup>a</sup> *May be met as part of the Social Sciences or Humanities requirement by selecting a course that also fulfills the Cultural Diversity requirement as indicated in the Cultural Diversity list in the College of Liberal Arts and Sciences.*

#### Required Courses

(20 courses, 63 semester hours)

	Hours
HIM 310 —Introduction to the Health Care 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 Health Care 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 —Introduction Systems for Health Information Management	2
BHIS 480 —Management and Business Practices	3
BHIS 495 —Seminar in Biomedical and Health Information Sciences	1

For additional information on graduation requirements and academic regulations in the college, see *College of Applied Health Sciences*.

## Medical Laboratory Sciences<sup>1</sup>

The Medical Laboratory Sciences undergraduate degree program combines the challenges and rewards of medicine and laboratory science. Knowledge of the biological and chemical sciences as well as current technology is applied to the generation of scientifically valid data in the following disciplines: clinical chemistry, hematology, immunology, immunohematology, and clinical microbiology. Clinical laboratory scientists select and compare laboratory methods, manage the delivery of laboratory data, advise health care personnel on the selection and interpretation of laboratory test results, and serve as technical consultants to physicians and other health care professionals in a variety of settings. It has been demonstrated that 70% of all medical decisions are based on laboratory-generated data.

The job forecast for a clinical laboratory scientist is very positive. Currently, there are numerous entry-level positions for clinical laboratory sciences graduates from accredited programs, not only in clinical laboratories but also in other health care settings. Employment opportunities also exist in research, education, sales, diagnostic and biotechnology companies, and with state and national health care organizations.

### Bachelor of Science in Medical Laboratory Sciences

The curriculum is full time (two years in length) and begins with the fall semester. The National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) accredits the Medical Laboratory Sciences program. Medical laboratory sciences graduates receive a bachelor of science degree and are eligible to apply for national credentialing examinations offered by the National Certifying Agency for Medical Laboratory Personnel (NCA) and the Board of Registry of the American Society of Clinical Pathologists (ASCP).

The medical laboratory sciences curriculum is comprised of course work in clinical chemistry, hematology, immunohematology, clinical immunology, and clinical microbiology. Additional courses focus on management, education, biotechnology, and current topics in health care. In the senior year, academic course work is integrated with clinical practice experience at affiliated health care facilities in Chicago and the metropolitan area.

#### Traditional Two-Year Program

The traditional Medical Laboratory Sciences program is full time and begins every year in the fall semester; spring semester admission is not available. The course of study is two years in length (including one summer session) and occurs in the final two years of the baccalaureate degree program.

#### Career Mobility Option

The Medical Laboratory Sciences program also offers a special option for medical laboratory technicians (MLT) wishing to advance to medical technologists (MT) with minimal loss of time and credit. The Career Mobility option is a 12-month series of courses available as a modification of the traditional two-year professional program.

1. *Until further notice, no new students will be admitted to the Medical Laboratory Sciences program.*

There are two possible routes of entry into the Career Mobility Program:

1. The Illinois Articulation Agreement (IAI) requires a minimum of two years of preprofessional course work at an accredited college, graduation from an accredited MLT program within the state of Illinois after 2000, and certification at the MLT level by an acceptable national certification agency (ASCP or NCA) before entrance into the program. MLT credits with a grade of "C" or better will transfer to UIC.
2. Requires a minimum of two years of preprofessional course work at an accredited college and completion of an approved associate degree program (or the equivalent) in Medical Laboratory Technology (MLT). Applicants must also be certified or eligible for certification as a Medical Laboratory Technologist, have clinical work experience, and obtain passing scores on a required validation examination administered by the school.

### Admission Requirements

Students seeking admission must meet these minimum requirements:

- Junior standing with 60 semester or 90 quarter credit hours of acceptable preprofessional course work completed at an accredited college/university;
- science courses taken more than five years ago are not acceptable as prerequisite requirements;
- successful completion of required courses equivalent to the academic prerequisites listed before enrollment;
- cumulative and science grade point average of 3.00 on a 5.00 scale (2.00 on a 4.00 scale) for all completed undergraduate studies;
- international students must have a Test of English as a Foreign Language (TOEFL) score of 550, or 213 on the Computer-Based Testing (CBT), or above;
- demonstrated reading, writing, and verbal 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 school faculty and submission of three references; and
- thorough understanding of the professional health information manager's role and responsibilities.

Students with international course work should present original transcripts by November 15 - or an evaluation conducted by the Education Credential Evaluators by February 1 - to the Office of Admissions and Records.

Application forms and credentials (i.e., transcripts and letters of recommendation) must be complete and postmarked by March 31 in the year of intended enrollment. Because UIC is a state-supported institution, admission of non-Illinois residents is generally limited to 10 percent of the incoming class. All applicants who meet the admission requirements and have complete applicant files are considered for admission. However, not all students who meet the minimum qualifications will gain admissions due to the limited class size in this program. Application files are used to determine the position of each applicant in a uniform ranking system. This uniform ranking scale is based on both academic and nonacademic criteria.

### Degree Requirements

#### Prerequisite Courses

	Hours
English 160, 161	6
BioS 100, 101	10
BioS 350, 351 <sup>a</sup>	5
Chem 112, 114; or 116, 118	10
One of the following two options:	5
Chem 130 (5)	
Chem 232 and 233 <sup>a</sup> (5)	
Kine 251 and 252	10
Math 118 or a higher level	5
Humanities <sup>b</sup>	6
<i>Two courses selected from the Humanities Course Distribution Requirement Chart in the College of Liberal Arts and Sciences.</i>	
Social sciences <sup>b</sup>	2
<i>One course selected from the Social Sciences Course Distribution Requirement Chart in the College of Liberal Arts and Sciences.</i>	
Ling 201 —Classical Etymology in the Life Sciences <sup>a</sup>	3
Psch 100 —Introduction to Psychology	4
Psch 242 —Introduction to Research in Psychology	3
Electives to complete a minimum of 60 semester hours.	
<i>Recommended are courses in genetics, cell biology, statistics, and education.</i>	

#### Total Hours

**64**

<sup>a</sup> Not included in the Course Distribution Requirement Chart.

<sup>b</sup> All students must take one course in Cultural Diversity. This requirement may be met by selecting a Social Sciences or Humanities CDC course that also fulfills the Cultural Diversity requirement as indicated on the Cultural Diversity List in the College of Liberal Arts and Sciences.

#### Required Courses

	Hours
MLS 306 —Biologic Fluids II <sup>c</sup>	1
MLS 320 —Clinical Chemistry I	4
MLS 322 —Clinical Chemistry II <sup>c</sup>	4
MLS 330 —Hematology I	3
MLS 332 —Hematology II <sup>c</sup>	4
MLS 341 —Molecular and Immunology Techniques <sup>c</sup>	2
MLS 350 —Clinical Microbiology I	4
MLS 352 —Clinical Microbiology II <sup>c</sup>	3
MLS 361 —Immunohematology I	2
MLS 362 —Immunohematology II <sup>c</sup>	4
MLS 417 —Clinical Experience I	3-10
<i>Minimum of 7 hours in MLS 417 required.</i>	
MLS 418 —Clinical Experience II	3-10
<i>Minimum of 7 hours in MLS 418 required.</i>	
MLS 442 —Clinical Immunology <sup>c</sup>	2
MLS 446 —Current Issues <sup>c</sup>	2
MLS 447 —Clinical Correlations <sup>c</sup>	3
MLS 455 —Mycology-Parasitology-Virology <sup>c</sup>	2
Bche 307 —Biochemistry <sup>c</sup>	3
BHIS 405 —Medical Sciences and Human Pathophysiology	3
BHIS 420 —Biotechnology for Laboratory Sciences <sup>c</sup>	2-3
<i>Career Mobility students register for 2 credit hours; Two-Year students register for 3 credit hours.</i>	
BHIS 460 —Introduction to Health Informatics <sup>c</sup>	1
BHIS 480 —Management and Business Practices <sup>c</sup>	3
BHIS 495 —Seminar in Biomedical and Health Information Sciences <sup>c</sup>	1

#### Total Hours — Two-Year Program

**68**

#### Total Hours — Career Mobility

**37**

<sup>c</sup> Career Mobility and Two-Year courses

## Electives

	Hours
MLS 334 —Hematology Clinical Morphology	1
MLS 351 —Issues in Clinical Microbiology	1
MLS 413 —Independent Study	1-3

For additional information on graduation requirements and academic regulations in the college, see *College of Applied Health Sciences*.



# Human Nutrition

## 650 Applied Health Sciences Building

Head of the Department: Alan M. Diamond.

(312) 996-8055

The Department of Human Nutrition offers two major tracks (the *coordinated program* track and the *nutrition science* track) that lead to the Bachelor of Science degree. The coordinated program track focuses on the practice of nutrition (i.e., dietetics) and upon successful completion, students are eligible to take the Registration Examination of the Commission on Dietetic Registration to become a Registered Dietitian (RD). The nutrition science track 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.

## Bachelor of Science in Human Nutrition

### The Coordinated Program

Accredited by the American Dietetic Association, the coordinated program requires students to complete six-semester hours 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 health care 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, 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 health care team in providing nutritional care in the clinical setting, and work with consumers in wellness programs and community agencies. Management of personnel, budgets, and food operations and consumer-oriented services in the food or health care industry are other areas for dietitians.

### Nutrition Science Track

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 track prepares students for graduate study in nutrition, medicine, dentistry and can be tailored to meet the American Dietetic Association Didactic Program in Dietetics requirements for entrance in a dietetic internship.

### Admission Requirements

Students seeking admission must meet these minimum requirements:

- Sixty semester or 90 quarter hours of acceptable academic credit
- A cumulative grade point average of 3.50 based upon a 5.00 scale (2.50 on a 4.00 scale)
- Successful completion of all the prerequisites equivalent to those offered by the UIC College of Liberal Arts and Sciences

The applicant's 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 essay.

### Degree Requirements

For the Bachelor of Science in Human Nutrition Coordinated Program 137 semester hours; for the Nutrition Science Track 120 semester hours distributed as follows:

	Hours
Engl 160, 161	6
Comm 100	3
Humanities	6
<i>Two courses selected from the Humanities Course Distribution Requirement Chart in the College of Liberal Arts and Sciences.</i>	
Psch 100	4
Soc 100, 201	6
Chem 112, 130	10
BioS 100, 350 <sup>a</sup> , 351 <sup>a</sup>	10
Math 121	5
<i>Completion of Math 121 may be satisfied through placement exam or CLEP.</i>	
HN 110	2
HN 196	2
Electives	6
<i>Recommended electives: introductory courses in macroeconomics, computer science, anthropology, or any other social sciences course. One of these has to be a course from the Course Distribution Requirements Chart in the College of Liberal Arts and Sciences.</i>	

<sup>a</sup> Students will be required to complete prerequisites for these courses.

### Required Courses Coordinated Program

(24 courses, 76 semester hours)

	Hours
HN 200 —Nutrition Care Planning	3
HN 300 —Science of Foods	3
HN 302 —Culture and Food	2
HN 306 —Nutrition Education	4
HN 308 —Nutritional Science I	3
HN 309 —Nutritional Science II	3
HN 311 —Nutrition During the Lifecycle	3
HN 312 —Nutrition During the Lifecycle 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 Practicum	4
HN 340 —Seminar	1
HN 341 —The Research Process	2
HN 413 —Principles of Delivering Public Health Nutrition Services	3
HN 420 —Clinical Nutrition II	2
HN 421 —Clinical Practice II	4

HN 422 —Clinical Nutrition III	3
HN 423 —Clinical Practice III	5
HN 450 —Professional Practice	6
Bche 307 —Fundamentals of Biochemistry	3
Kine 251 —Human Physiological Anatomy I	5
Kine 252 —Human Physiological Anatomy II	5

### **Required Courses for Nutrition Science Track**

(13 courses, 40 semester hours)

	<b>Hours</b>
HN 200 —Nutrition Care Planning	3
HN 300 —Science of Foods	3
HN 308 —Nutritional Science I	3
HN 309 —Nutritional Science II	3
HN 311 —Nutrition During the Lifecycle	3
HN 320 —Clinical Nutrition I	3
HN 420 —Clinical Nutrition II	3
HN 340 —Seminar	1
HN 341 —The Research Process	2
HN 413 —Principles of Delivering Public Health Nutrition Services	3
Bche 307 —Fundamentals of Biochemistry	3
Kine 251 —Human Physiological Anatomy I	5
Kine 252 —Human Physiological Anatomy II	5

*Remaining coursework will depend upon the student post-graduation goals*

# Kinesiology

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**Office of the Director,  
684 N College of Medicine East  
Office of Student Services,  
337 Physical Education Building**

**Director:** Mark D. Grabiner, Ph.D.

**Undergraduate Director:** Mary Lou Bareither, Ph.D.

**(312) 996-4600, (312) 996-9691**

The School of Kinesiology 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 Kinesiology for their professional preparation. The undergraduate program offers two areas of concentration, and the graduate program offers four. Kinesiology is firmly committed to the University of Illinois at Chicago's three-fold mission of education, research, and service. Students in our school will find many opportunities to engage in all three endeavors.

## Undergraduate Concentrations

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The Bachelor of Science (B.S.) program offers two areas of concentration:

(1) *Movement Science*, and (2) *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 kinesiology, medicine, nursing, pharmacy, physical therapy, occupational therapy, and medical laboratory sciences, among others. The concentration in Exercise and Fitness prepares students for careers in corporate and community health and fitness settings. It provides the fundamental background required to develop exercise and fitness programs for persons of all ages ranging from healthy to disabled. This concentration assists students in becoming certified as health/fitness professionals.

### Admission Requirements

#### Freshman Admission Requirements

Students seeking admission to the School of Kinesiology who are recent high school graduates or who have earned fewer than 36 semester hours (54 quarter hours) of credit at another college or university are classified as new freshmen and must meet the University of Illinois at Chicago entrance requirements to the college that are specified for new freshmen.

The School of Kinesiology recommends that applicants complete a strong college preparatory curriculum in high school that emphasizes mathematics and the natural sciences (biology, chemistry, physics).

International students must have a Test of English as a Foreign Language (TOEFL) score of 550 or above.

#### Transfer Student Admission Requirements

Students seeking admission to the school 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 3.25 (A= 5.00).

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 or above.

### Intercollege Transfer to Kinesiology

UIC students from other colleges may apply for transfer to the School of Kinesiology. Admission requirements are the same as those for transfer students.

### Academic Advising

Academic advising is required for all continuing students in the school. The school academic adviser assists students in the selection of their courses, in determining the program to follow, and in answering general questions about University and school graduation requirements. Students are required to receive advisement once each year.

### Placement Tests

#### Freshmen Students

The School of Kinesiology requires all new students classified as freshmen to participate in the Pre-enrollment Evaluation Program. This program is a series of tests designed to help students select appropriate courses and to offer guidance in educational and career plans. The Pre-enrollment Evaluation Program consists of five tests: academic skills, career interests, composition, mathematics, and reading. In addition, students declaring the Movement Science concentration must take tests in chemistry and physics. Placement tests in foreign languages are required only if students desire to take foreign language classes as electives.

#### Transfer Students

The placement test requirements for transfer students may vary according to the background of the student and the concentration desired. Please refer to the following guide:

English: required of all transfer students who have not completed two semesters of English composition.

- Chemistry: required of all students in Movement Science who have not yet completed General College Chemistry I & II
- Physics: required of all students in Movement Science who have not yet completed College Physics I.
- Mathematics: required of all students in Movement Science who have not completed a college calculus course; required of Exercise and Fitness students who have not taken a college algebra course.
- Foreign Language: required only if a student desires to take elective coursework in a foreign language.

### Degree Requirements

In order to earn the degree of Bachelor of Science in Kinesiology, the student is responsible for fulfilling the graduation requirements of the University and school that are in effect at the time of initial registration. It is essential for each student to become familiar with the graduation requirements stated in this catalog and to keep up to date with any 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 school as well as those in the major or curriculum in effect at the time of re-enrollment. If courses originally required are no longer offered, the school has the prerogative of specifying substitutes.

All students are required to satisfactorily complete the courses listed below in the categories of General Education Requirements and Kinesiology Common Core as well as the Required Concentration Coursework for their chosen area. Both degree concentrations require a minimum of 120 semester hours.

*Continuing students should refer to previous undergraduate catalogs for degree requirements.*

In addition, all students are required to complete an approved course in cultural diversity as part of their humanities, social science, or elective coursework. Consult the list of approved cultural diversity courses in the *College of Liberal Arts and Sciences* section of this catalog.

### General Education Requirements

	Hours
BioS 100 —Biology of Cells and Organisms	5
Psch 100 —Introduction to Psychology	4
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Social science elective from approved list	3
Humanities electives from approved list	6
<b>Total Hours</b>	<b>24</b>

### Kinesiology Common Core

Kine 150 —Introduction to the Study of Kinesiology	2
Kine 195 —Biomechanics: Intro to the Human Machine	3
HN 196 — Nutrition	3
Kine 251 —Human Physiological Anatomy I	5
Kine 252 —Human Physiological Anatomy II	5
Kine 352 —Physiology of Exercise	4
Kine 353 —Exercise Psychology	3
Kine 354 —Motor Control and Learning	3
<b>Total Hours</b>	<b>27</b>

### Concentration in Movement Science

#### Required Coursework

	Hours
BioS 101 —Biology of Populations and Communities	5
BioS 220 —Mendelian Genetics	3
Chem 112 —General College Chemistry I	5
Chem 114 —General College Chemistry II	5
Chem 232 —Organic Chemistry I	4
Math 180 —Calculus I	5
Psych 242 —Introduction to Research in Psychology	3
Phys 105 —Introductory Physics I	4
and Phys 106 Introductory Physics I Laboratory	1
or Phys 141 General Physics I	4
and Phys 144 Problem Solving Workshop for General Physics I	1
Kine 304 —Biomechanics: Musculoskeletal Tissues	3
Kine 421 —Advanced Exercise Physiology	3
Kine 472 —Movement Neuroscience	3
<b>Total Hours</b>	<b>44</b>

Electives - 25 semester hours, 9 of which must be in upper level Kinesiology courses (300/400).

Students with a cumulative GPA of 4.25 or greater are encouraged to complete Kine 397 Senior Research Seminar (3 hrs) and Kine 390 Senior Research Project (3 hrs) during the senior year as part of their elective coursework.

### Concentration in Exercise and Fitness

#### Required Coursework

	Hours
Natural Science Elective (from approved list)	5
Math 118 —Mathematical Reasoning	5
Kine 120 —Stress Management	3
Kine 152 —Basic Concepts in Health	3
Kine 203 —Research Literacy in Kinesiology	3
Kine 240 —Instructional Techniques in Fitness	3
Kine 258 —Fitness Assessment	3
Kine 331 —Sport and Exercise Injury Management	3
Kine 345 —Aquatic Fitness Leadership	2
Kine 351 —Biomechanics of Exercise	3
Kine 383 —Modifications in Exercise Programming	3
Kine 387 —Exercise Programmer	3
Kine 404 —Human Aging and Physical Performance	3
Kine 406 —Business Principles for the Fitness Professional	3
<b>Total Hours</b>	<b>45</b>

Electives - 24 semester hours, 9 of which must be in upper level Kinesiology courses (300/400).

Students with a cumulative GPA of 4.25 or greater are encouraged to complete Kine 397 Senior Research Seminar (3 hrs) and Kine 390 Senior Research Project (3hrs) during senior year as part of their elective coursework.

### 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 School of Kinesiology offers the following opportunities:

#### Independent Study

Kinesiology 399 Independent Study is designed to be a flexible course allowing juniors and seniors to gain experience in kinesiology-related research. Taken for 1-3 hours, Kine 399 requires close interaction with one or more faculty members over the course of one semester.

#### Senior Research Seminar & Project

The Senior Research Seminar & Project is offered as a capstone experience to students in both major concentrations who have achieved a grade point average of 4.25 (A= 5.0) by their senior year of study. Eligible students complete the two-semester sequence by taking Kinesiology 397 Senior Research Seminar and Kinesiology 390 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 Fellowship

Promising students of sophomore standing or above who have demonstrated an interest in the research of Kinesiology faculty may be nominated to receive a Summer Research Fellowship. Recipients of the award will work closely with a principal investigator and graduate students in a Kinesiology laboratory on a project designed by the student and faculty member. Depending on the length and nature of the research experience, the



fellowship may include a stipend, tuition waiver, graduation credit, or some combination of the three. If the student and faculty member desire, the work accomplished during this experience may be later developed into the student's Senior Research Seminar and Project.

### **Professional Certifications**

Courses in the Exercise and Fitness concentration have been developed to assist students in becoming certified as health/fitness professionals by organizations such as the American College of Sports Medicine, National Strength and Conditioning Association, and the American Council on Exercise.

# Occupational Therapy

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**Applied Health Sciences Building, Third Floor**

**(312) 996-6901**

**Head of the Department:** Gary W. Kielhofner.

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The Bachelor of Science in Occupational Therapy degree program has been eliminated. The professional occupational therapy program is now offered at the master's level (M.S. in Occupational Therapy). Admission to the M.S. program requires an earned bachelor's degree with specific prerequisite course work in anatomy and physiology, statistics, psychology, and social sciences. Students interested in becoming registered occupational therapists should consult the Department of Occupational Therapy at (312) 996-6901. Information is also available at <http://www.uic.edu/ahs/OT> or e-mail [OTDept@uic.edu](mailto:OTDept@uic.edu).

# Physical Therapy

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**Applied Health Sciences Building, Fourth Floor**

**(312) 996-7764**

**Head of the Department:** Suzann K. Campbell.

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The Bachelor of Science in Physical Therapy degree program has been eliminated. The professional physical therapy entry-level program is now offered through the Doctor of Physical Therapy (DPT) program. Admission to the DPT program requires an earned bachelor's degree with specific course work in biology, chemistry, physics, calculus, statistics and psychology. Students interested in becoming professional licensed physical therapists should consult the Department of Physical Therapy website at <http://www.uic.edu/ahp/pt> or call (312) 996-1505.

# Applied Health Sciences Courses

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## Anatomy and Cell Biology (Anat)

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- 414 Neuroanatomy for Allied Health Program. 3 Hours.** Basic development and gross features of the central nervous system and systems neuroanatomy; motor, sensory, and integrative functional areas.
- 441 Gross Human Anatomy. 5 Hours.** For allied health students. Functional and structural anatomy of the body. Prerequisites: Graduate standing and consent of the instructor; or enrollment in the B.S. in Physical Therapy program or M.A.M.S. in Biomedical Visualization program.

## Biochemistry (Bche)

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- 307 Fundamentals of Biochemistry. 3 Hours.** Lecture course intended primarily for advanced undergraduate students in Associated Health Professions. Includes the chemistry of cellular constituents, enzymology, metabolism, and intracellular control and elements of molecular biology. Prerequisite: General and organic chemistry.

## Biomedical and Health Information Sciences (BHIS)

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- 405 Medical Sciences and Human Pathophysiology. 3 to 4 Hours.** 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. Credit is not given for Biomedical and Health Information Sciences 405 if the student has credit in Associated Health Sciences 420 or Health Information Management 313 or 314. Pathophysiological processes in human diseases and specific disease processes of human organ systems. Medical management of persons with disease and pharmacology related to the disease. Medical terminology.
- 410 Health Data Structures and Management. 3 Hours.** 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. Prerequisites: BHIS 400 and 480.
- 420 Biotechnology for Laboratory Sciences. 2 to 3 Hours.** Career Mobility Program students register for 2 credit hours; 2 + 2 traditional program students register for 3 credit hours. Credit is not given for Biomedical and Health Information Sciences 420 if the student has credit in Medical Laboratory Sciences 300 or 302. A course designed to provide information about good laboratory practices and general laboratory skills for a wide variety of students interested in laboratory methods which may include research, industry, and medical laboratory science.
- 437 Health Care Data. 3 Hours.** Same as Health Policy and Administration 437. Review of fundamentals constituting a health care information system. How data is transformed into information and then again transformed into knowledge through integrated computer systems. Prerequisite: Senior or graduate standing.

- 460 Introduction to Health Informatics. 1 Hour.** Same as Pharmacy 460. 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. Credit is not given for Biomedical and Health Information Sciences 460 if the student has credit in Biomedical and Health Information Sciences 400 or Nursing Sciences 218 or Interdisciplinary Public Health 420. Introduction to information technology and systems in a healthcare setting; collection, analysis and management of healthcare data; storage, retrieval, and networking; system security. Prerequisite: Students should demonstrate basic computing skills including knowledge of an office productivity suite (MS Office or other), electronic mail, and Internet browsers. Credit in IDS 100 or the equivalent is recommended.
- 461 Information Systems for Health Information Management. 2 Hours.** No credit given if the student has credit in BHIS 400. Advanced topics in information technology and systems in a health care setting; collection, analysis and management of health care data; special issues related to the role of health information administrators. Extensive computer use required. Prerequisites: IDS 100 and credit or concurrent registration in BHIS 460.

- 480 Management and Business Practices. 3 Hours.** Principles of management with emphasis on business functions, procedures, and organizational structure as applied to various health care settings including private and institutional practice. Prerequisite: Advanced undergraduate or graduate standing in the School of Biomedical and Health Information Sciences or consent of the instructor.
- 495 Seminar in Biomedical and Health Information Sciences. 1 Hour.** Satisfactory/Unsatisfactory grade only. Specific topics are announced each term. Subjects of current interest presented through lectures and journal review. Prerequisite: Senior or graduate standing.

## Community Health Sciences (CHSc)

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- 413 Principles of Delivering Public Health Nutrition Services. 3 Hours.** Same as Human Nutrition 413. Assessment, planning, and evaluation of community nutrition programs using a systems approach. Prerequisite: CHSc 411 or consent of the instructor.

## Disability and Human Development (DHD)

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- 401 Foundations of Disability and Human Development. 3 Hours.** A critical review of key concepts and issues in disability. Students will develop a framework for understanding disability as a multi-level entity, including the impact of disability at personal, social, and societal levels. Prerequisite: Enrollment in the M.S. in Disability and Human Development program or consent of the instructor.

- 430 Introduction to Disability Policy and Organization. 3 Hours.** 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: DHD 401 or consent of the instructor.
- 440 Introduction to Assistive Technology: Principles and Practice. 3 Hours.** Underlying 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: Graduate standing or consent of the instructor.
- 441 Adaptive Equipment Design and Fabrication. 3 Hours.** Examination of the interaction between design and disability issues, through comparison of appropriate design theories, materials, and work with consumers. Some assignments will involve fieldwork. Prerequisite: Graduate standing; or DHD 440 and consent of the instructor.
- 442 Seating and Wheeled Mobility. 3 Hours.** Issues of wheelchair seating, positioning and mobility for children and adults with physical disabilities. Assessment procedures, technology selection, and analysis of funding sources. Prerequisite: DHD 440 or consent of the instructor. Designed for undergraduate and graduate students preparing for careers in physical therapy, occupational therapy or rehabilitation technology, bioengineers preparing for careers in rehabilitation engineering, and individuals currently working.
- 444 Assistive Technology for Literacy, Learning and Participation in Pre-K through High School. 3 Hours.** Use of communication systems, computers, adapted equipment and strategies to foster participation and inclusion of students in grades preschool through high school.
- 446 Qualitative Methods in Disability Research. 3 Hours.** Comparisons of qualitative and quantitative approaches to research, presentation of commonly used methods, issues of analysis and interpretation, and the use of participatory research methods. Prerequisite: Graduate standing or consent of the instructor.
- 460 Fundamentals of Behavior Analysis. 3 Hours.** 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: Credit or concurrent registration in DHD 401 or the equivalent.
- 464 Survey of Developmental Disabilities. 3 Hours.** Same as Community Health Sciences 464. Survey of the developmental disabilities field, including basic definitions, history of DD services, relevant public policies and legislation, service delivery systems, and research. Prerequisite: Graduate standing or consent of the instructor.
- 494 Special Topics in Disability and Human Development. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Systematic study of selected topics in disability and human development. Prerequisite: Graduate standing or consent of the instructor.



## Health Information Management (HIM)

- 310 Introduction to the Health Care System. 3 Hours.** Orientation to the medical record profession and to health care facilities. History, classification, accreditation, organization, functional roles of individual departments, and external pressures are examined. Prerequisite: Enrollment in the B.S. in Health Information Management program or consent of the instructor.
- 317 Principles of Health Information Management. 4 Hours.** Introduction to the data elements that comprise the patient's health record. Includes data collection, processing and records management. Lab practice.
- 318 Health Information Management II. 3 Hours.** Continuation of Health Information Management 317. Record analysis and abstracting; incomplete chart control; word processing and service contracts; file management; record management and microfilming. Prerequisite: HIM 317.
- 319 Alternative Health Records. 4 Hours.** Health information systems in alternative care settings including records management, quality assessment, and special registries for diagnoses and other patient care classifications. Directed practice. Prerequisites: HIM 310 and 317.
- 320 Technical Affiliation. 2 Hours.** Orientation to health information management practice via assignments in affiliated institution's medical record departments. Prerequisites: HIM 317 and concurrent registration in HIM 318.
- 329 Legal Aspects of Health Information Management. 3 Hours.** Principles of law, confidentiality, and ethics, and their application in the health care field with particular reference to health records.
- 332 Coding and Classification Systems. 3 Hours.** Introduction to nomenclatures and classification systems with an emphasis on the ICD-9-CM coding system. Other selected systems also discussed. Prerequisite: HIM 313.
- 333 Coding and Reimbursement Systems. 4 Hours.** ICD-9-CM coding for reimbursement, CPT-4/HCPCS coding, data quality management and management reporting. Prerequisites: HIM 313 and 332.
- 337 Analysis of Health Care Data. 4 Hours.** Health care and research statistics including data display. Collection, evaluation and interpretation of health care data will be covered. Includes a laboratory section.
- 343 Quality Evaluation and Management. 3 Hours.** Examination of processes, internal and external to an organization, used to measure, evaluate, and improve the quality, efficiency, and effectiveness of health care. Directed practice. Prerequisites: HIM 310, 317, 318, 329, and 373.
- 361 Human Resources Management. 4 Hours.** Emphasis on personnel management including hiring, discipline, union relations, in-service education, productivity measurement. Students develop and present an in-service program. Prerequisite: Consent of the instructor.

- 367 Systems Analysis. 3 Hours.** Fundamentals and tools of systems analysis. Students participate in a systems analysis project for directed practice experience. Focus on health care computer applications and facilities design and layout. Prerequisites: Completion of 44 semester hours of health information management coursework.
- 374 Health Information Research. 3 Hours.** Student research project applying research principles and methodology to clinical data. Use of statistical software. Presentation of findings in written articles and oral presentation. Prerequisite: HIM 337.
- 377 Current Issues in Health Information Management. 2 Hours.** Discussion of current issues relevant to the health information management profession. Prerequisites: Completion of 44 semester hours of health information management coursework or consent of the instructor.
- 381 Financial Management. 2 Hours.** Basic accounting and financial principles including introduction to health care reimbursement, investment, productivity measurement, cost accounting, and departmental budgeting. Prerequisite: HIM 360.
- 384 Clinical Practicum. 5 Hours.** Supervised management activities in an affiliated health care facility allowing the student to develop insight, understanding, and skill in medical record/health information practices, procedures, and administration. Prerequisite: Completion of 44 semester hours of health information management coursework or consent of the instructor.
- 386 Independent Study. 1 to 5 Hours.** May be repeated for a maximum of 5 hours of credit. Students may register for more than one section per term. An optional course where students perform lab work, field work, and/or in-depth descriptive studies regarding topics related to health information management. Prerequisites: Consent of the instructor and enrollment in Health Information Management or Health Informatics program.

## Human Nutrition (HN)

- 110 Foods. 2 Hours.** The principles of food selection, preparation and service.
- 196 Nutrition. 2 Hours.** Provides a foundation in the basic principles of human nutrition in maintaining and promoting health through good dietary choices.
- 200 Nutrition Care Planning. 3 Hours.** Introduction to the dietetic profession including the nutritional care process. Emphasis on developing basic skills in medical terminology, nutritional assessment, interviewing, counseling and recording. Prerequisites: HN 196 and admission to undergraduate program in human nutrition; or consent of the instructor.
- 300 Science of Foods. 3 Hours.** Scientific aspects of food and its preparation with emphasis on clinical applications. Prerequisite: HN 110 or the equivalent or consent of the instructor.
- 302 Culture and Food. 2 Hours.** 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.
- 306 Nutrition Education. 4 Hours.** Credit is not given for HN 306 if the student has credit in HN 201 or HN 305. Study of theoretical and applied strategies for instructional planning and assessment that are applied to both group and individual nutrition education. Prerequisite: HN 200 or consent of the instructor.
- 308 Nutrition Science I. 3 Hours.** Metabolism, dietary regulation and requirements for energy, protein, fat and carbohydrates including issues of under/over nutrition and regulation of food intake. Prerequisites: HN 196 and credit or concurrent registration in Bche 307 and in Kine 251.
- 309 Nutrition Science II. 3 Hours.** Continuation of Human Nutrition 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: HN 308.
- 311 Nutrition During the Life Cycle. 3 Hours.** Principles of nutrition through the life cycle, including weight management. Prerequisite: Concurrent registration in HN 310 or consent of the instructor.
- 312 Nutrition During the Life Cycle Practicum. 2 Hours.** Clinical practicum that includes rotations in maternal, pediatric, and geriatric outpatient/community settings. Prerequisite: Concurrent registration in HN 311 or consent of the instructor.
- 320 Clinical Nutrition I. 4 Hours.** Principles of nutrition, biochemistry, physiology, and pathology related to the management of starvation, obesity and gastrointestinal diseases cardiovascular disease, and diabetes. Prerequisites: HN 308 and Bche 307 or the equivalent; or consent of the instructor.
- 321 Clinical Practice I. 2 Hours.** Practical experience in the nutritional management of starvation, obesity and gastrointestinal diseases. Prerequisites: HN 308 and concurrent registration in HN 320; or consent of the instructor.
- 330 Quantity Food Production. 3 Hours.** Lecture/discussion on kitchen layout and design, menu planning, food procurement, storage, production, and service. Prerequisite: HN 202 or consent of the instructor.
- 332 Food Service Management. 2 Hours.** Application of management principles to food service system functions. Prerequisite: HN 330.
- 335 Food Service Practice. 4 Hours.** Credit is not given for HN 335 if the student has credit in HN 331 or 333. Clinical experience in kitchen layout and design, menu planning, quantity food production and service, and management of a food service operation. Prerequisite: HN 330 and 332.
- 340 Seminar. 1 Hour.** Oral presentation of current topics and issues in human nutrition. Guest speakers included. Prerequisites: HN 201 and 310.
- 341 The Research Process. 2 Hours.** Discussion and application of research methods in development of a practice-oriented research proposal. Written and oral communication included. Prerequisites: HN 310 and Soc 201 or the equivalent; or consent of the instructor.

- 396 Independent Undergraduate Study in Human Nutrition. 1 to 4 Hours.** 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: Consent of the instructor.
- 413 Principles of Delivering Public Health Nutrition Services. 3 Hours.** Same as Community Health Sciences 413. Assessment, planning, and evaluation of community nutrition programs using a systems approach. Prerequisite: CHSc 411 or consent of the instructor.
- 420 Clinical Nutrition II. 2 Hours.** Principles of nutrition, biochemistry, physiology, pathology, education, and psychology related to management of selected diseases (renal disease, AIDS and cancer, and pediatrics). Prerequisites: HN 320 or consent of the instructor.
- 421 Clinical Practice II. 4 Hours.** Practical experiences in the nutritional management and support of selected disease processes such as cancer, gastrointestinal and hyper metabolic states. Prerequisites: HN 321 and concurrent registration in HN 420; or consent of the instructor.
- 422 Clinical Nutrition III. 2 Hours.** Principles of nutrition, biochemistry, physiology, and pathology related to the management of critically ill patients. Prerequisites: HN 309 and 420, or consent of the instructor.
- 423 Clinical Practice III. 5 Hours.** Clinical practicum which focuses on the nutritional management of critically ill patients or specialized patient populations (renal and pediatric patients). Prerequisites: HN 421 and credit or concurrent registration in HN 422; or consent of the instructor.
- 450 Professional Practice. 6 Hours.** Extended practicum that integrates acquired skills, knowledge, and attitudes in dietetics. Special emphasis on current dietetic issues facing the health care professional. Prerequisite: HN 423 or consent of the instructor.
- 480 Field Study. 2 Hours.** Provides practical experience to develop/strengthen the student's knowledge and skills in an area of nutrition practice. Prerequisite: HN 410 or consent of the instructor.

## Kinesiology (Kine)

- 101 Badminton I. 1 Hour.** Introduction to Badminton. Skills, rules, strategies, learning progressions, movement analysis, and practice methods of badminton.
- 102 Bowling I. 1 Hour.** Introduction to bowling. Skills, rules, strategies, learning progressions, movement analysis, and practice methods.
- 105 Gymnastics I. 1 Hour.** Basic and intermediate skills in men's and women's Olympic events. Floor exercise, pommel horse, still rings, even and uneven bars, horizontal vaulting, and balance beam.
- 108 Personal Defense I. 1 Hour.** Self-defense skills and knowledge, including preventing attacks. Introduction to individual techniques of break falls and basic throws.
- 109 Racquetball I. 1 Hour.** Introduction to racquetball. Skills, rules, strategies, learning progressions, movement analysis, and practice methods.
- 110 Riflery I. 1 Hour.** Introduction to riflery. Skills, rules, strategies, learning progressions, position analysis, and practice methods.
- 111 Tennis I. 1 Hour.** Introduction to tennis. Skills, rules, strategies, learning progressions, movement analysis, and practice methods.
- 115 Basketball I. 1 Hour.** Introduction to basketball. Skills, rules, strategies, learning progressions, movement analysis, and practice methods.
- 116 Soccer I. 1 Hour.** Introduction to soccer. Skills, rules, strategies, learning progressions, movement analysis, and practice methods.
- 118 Volleyball I. 1 Hour.** Introduction to volleyball. Skills, rules, strategies, learning progressions, movement analysis, and practice methods.
- 120 Stress Management. 3 Hours.** 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.
- 125 Swimming I. 1 Hour.** Introduction to swimming. For people who are afraid of the water or cannot swim. Floating, front dive, basic rescue and front crawl, side, and back stroke.
- 135 Slimnastics I. 1 Hour.** A lifestyle program designed to slim the figure through exercise. Discussions of principles and problems relating to weight control.
- 136 Weight Training I. 1 Hour.** Introduction to weight training. Muscle physiology; training principles, fundamentals, and practice; types and systems of strength training.
- 137 Aerobic Conditioning I. 1 Hour.** Evaluation of each student's level of cardiovascular fitness, followed by participation in an individualized exercise program. Variable training modes. Discussion of fitness-related topics.
- 140 Aerobic Dance I. 1 Hour.** Aerobic conditioning through dance with emphasis on cardiovascular fitness.
- 150 Introduction to Study in Kinesiology. 2 Hours.** Core course emphasizing historical, philosophical/scientific foundations; curricular offerings; careers; and professional organizations; and resources and issues and trends that impact the field of Kinesiology.
- 151 Fundamental Movement Skills. 2 Hours.** Introduction to fundamental motor patterns as each relates to sport-specific skills. Analysis of movement and development factors influencing the acquisition of basic skills.
- 152 Basic Concepts in Health. 3 Hours.** Introduction to concepts and practices essential to preventing and coping with illness, and promoting personal wellness. Focuses on increasing self-responsibility through knowledge about health risks and behavioral strategies.
- 160 Emergency Response. 2 Hours.** Successful completion of this course qualifies students for certification in Emergency Response from the American Red Cross.
- 167 Stress Reduction and Relaxation. 1 Hour.** Development of a wide variety of practical personal skills to promote wellness. Focus is on physiological, cognitive and behavioral stress reduction and relaxation strategies.

- 194 Special Topics in Kinesiology. 1 to 3 Hours.** May be repeated for credit if topic or activity is different for each registration. Students may register for more than one section per term. Participation and study in selected activities in kinesiology.
- 195 Biomechanics: Introduction to the Human Machine. 3 Hours.** This course introduces the non-engineering/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.
- 203 Research Literacy in Kinesiology. 3 Hours.** 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.
- 218 Volleyball II. 2 Hours.** Advanced skills, strategies, officiating, movement analysis, and teaching progressions of volleyball. Prerequisite: Kine 118.
- 225 Swimming II. 2 Hours.** Progression, conditioning and analysis of the front and back crawl, side stroke, breaststroke, and snorkeling. Prerequisite: Kine 125 or ability to swim 50 meters.
- 226 Life guarding. 2 Hours.** For students who wish to learn lifesaving skills. The American Red Cross Life guarding Certificate is awarded upon successful completion of the course. Prerequisite: Ability to swim 100 meters using three of the following strokes: back, breast, crawl, and side.
- 237 Fitness II. 2 Hours.** Advanced knowledge and application of training principles for cardiovascular fitness, muscular strength and endurance, and flexibility. Fitness evaluation and program development. Prerequisite: Kine 136 or 137.
- 240 Instructional Techniques in Fitness. 3 Hours.** Development of instructional techniques for a variety of activities related to health promotion. Course includes planning and teaching techniques for developing programs in fitness using a variety of exercise modalities. Prerequisite: Kine 195, 251 and 252; and junior standing or above; or consent of the instructor.
- 251 Human Physiological Anatomy I. 5 Hours.** The structure and function of mammalian cells and tissues and human skeletal, muscular and nervous systems are discussed. Integrating the functions of the various systems is emphasized. Prerequisite: Grade of C or better in BioS 100 or consent of the instructor.
- 252 Human Physiological Anatomy II. 5 Hours.** The structure and function of the human endocrine, circulatory, respiratory, digestive, sensory, and reproductive systems are discussed. Integrating the functions of the various systems is emphasized. Prerequisite: Grade of C or better in Kine 251.
- 255 Sophomore Seminar: Introduction to Teaching Physical Education. 2 Hours.** Introduction to teaching physical education in public schools, discussion of issues in teaching, professional preparation advisement, and interpretation of personal values and perspectives about teaching. Prerequisite: Sophomore standing.

- 258 Fitness Assessment. 3 Hours.** Extensive use of instrumentation. This introductory-level course deals with screening and assessing fitness components necessary to assess posture, body composition, strength, flexibility and cardio-respiratory endurance. Prerequisite: Kine 203 and junior standing or above.
- 260 Instructional Techniques in Swimming. 2 Hours.** Organization, skills, movement analysis, and instructional techniques. (Red Cross Water Safety and Lifeguard Training Instructor certification available.) Prerequisite: Kine 226 or current Red Cross Lifeguard certificate.
- 261 Instructional Techniques in Team Sports. 3 Hours.** Teaching methods, skill analysis, and progression, practice and evaluation procedures, and safety considerations for selected team sports. Prerequisite: Kine 151.
- 262 Instructional Techniques in Individual Sports. 3 Hours.** Teaching methods, skill analysis, and progression, practice and evaluation procedures, and safety considerations for selected individual sports. Prerequisite: Kine 151.
- 263 Instructional Techniques in Gymnastics. 2 Hours.** Teaching methods, skill analysis, and progression, practice and evaluation procedures, and safety considerations for gymnastics. Prerequisite: Kine 105.
- 264 Instructional Techniques in Dance. 2 Hours.** Same as Dance 264. Introduction to dance education with emphasis on developing teaching methods and skills for the classroom.
- 267 Wellness in Action. 3 Hours.** Application of health theory, knowledge, and strategies to promote positive lifestyle choices; discussion and activities related to physical, mental/emotional, social, and spiritual dimensions of wellness.
- 268 School Health Instruction. 3 Hours.** Knowledge, materials, and processes for instructing health content K&ndash;12; organization of the school health program; and focus on critical health issues.
- 269 Methods for Counseling Center Paraprofessionals. 3 Hours.** Prepares students for wellness paraprofessional work on campus and in neighboring communities. Skills development for health promotion, group facilitation and referrals. Prerequisite: Kine 120 and 152; and sophomore standing or above; or consent of the instructor.
- 294 Special Topics in Kinesiology. 1 to 3 Hours.** May be repeated for credit if topic or activity is different for each registration. Students may register for more than one section per term. Selected topics in kinesiology. Prerequisite: Consent of the instructor.
- 300 Cadaver Dissection I. 1 to 3 Hours.** Cadaver dissection using the regional approach method. Dissection of the musculo-skeletal system, spinal cord and peripheral nervous system. Prerequisites: Grade of B or better in Kine 252 or consent of the instructor.
- 301 Cadaver Dissection II. 1 to 3 Hours.** Cadaver dissection using the regional approach method. Dissection of the brain, cardiovascular, respiratory, digestive, urinary and reproductive systems. Prerequisite: Grade of B or better in Kine 252 or consent of the instructor.
- 304 Biomechanics of Musculoskeletal Tissues. 3 Hours.** This course will introduce the non-engineering/physics student to the biomechanics of musculoskeletal tissues and the biomechanics of injury with an emphasis placed on human movement. Prerequisite: Kine 195 and Math 180; and Phys 105 and 106; or Phys 141 and 144; and junior standing or above; or consent of the instructor.
- 331 Sport and Exercise Injury Management. 3 Hours.** Fundamental management of exercise and sport related injuries and conditions. Opportunity for Cardiopulmonary Resuscitation/Automated External Defibrillator certification. Prerequisite: Kine 251 and 252; and junior standing or above.
- 332 Scientific Foundations of Athletic Training. 3 Hours.** Advanced theory and practice in the field of athletic training, focusing on in-depth study of surgical intervention and rehabilitation of athletically related injuries. Prerequisites: Kine 160 and 331.
- 333 Athletic Training Practicum I. 3 Hours.** Beginning laboratory/seminar experience in athletic training. Students' initial exposure to "hands on" activities in the field of sports medicine. Prerequisites: Kine 331 and credit or concurrent registration in Kine 332.
- 334 Athletic Training Practicum II. 3 Hours.** Intermediate clinical experience in athletic training. Prerequisite: Grade of B or better in Kine 333.
- 335 Athletic Training Practicum III. 4 Hours.** Advanced intermediate clinical experience in athletic training. Prerequisite: Grade of B or better in Kine 334.
- 336 Athletic Training Practicum IV. 4 Hours.** Advanced clinical experience in athletic training on-campus and possibly off-campus. Prerequisite: Grade of B or better in Kine 335.
- 340 Philosophical and Psycho-Social Aspects of Movement. 3 Hours.** Analyzes philosophical and psycho-social outcomes of physical activity. Explores research-based intervention strategies that maximize the benefits of participation in movement activities. Prerequisite: Psch 100.
- 343 Sport and Drugs. 3 Hours.** Explores the use of over-the-counter, performance enhancing, banned substances, and illegal recreational drugs in athletics and the general population.
- 344 Teaching Human Sexuality in Schools. 3 Hours.** Techniques and materials used in teaching human sexuality in the (public) schools, grades 1-12.
- 345 Aquatic Fitness Leadership. 2 Hours.** 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. Prerequisites: Kine 158 and 240.
- 351 Biomechanics of Exercise. 3 Hours.** Extensive use of instrumentation. Principles of mechanics and anatomy applied to movements of the human body. Prerequisite: Kine 195, 251 and 252; and junior standing or above.
- 352 Physiology of Exercise. 4 Hours.** The physiological adjustments associated with acute and chronic physical exercise; muscular, circulatory, respiratory, and nervous systems. Prerequisite: Kine 252.
- 353 Exercise Psychology. 3 Hours.** Presents the psychological basis for exercise motivation, behavior and outcomes. Focus on application of theoretical models of exercise adherence and psychological strategies to improve participation in regular exercise. Prerequisite: Psch 100.
- 354 Motor Control and Learning. 3 Hours.** Introduction to basic principles regarding the acquisition and control of human movements. Contains lecture and lab components. Prerequisites: Psch 100 and Kine 252.
- 355 Evaluation in Physical Education and Health. 3 Hours.** Measurement techniques for evaluating health and physical education knowledge, physical fitness, and motor skills; test construction, statistical techniques, data analysis, and interpretation. Prerequisites: Kine 351 and 352.
- 361 Adapted Physical Education. 3 Hours.** A study of handicapping conditions found among different populations. Adaptation of exercises and activities to accommodate individual needs. Prerequisite: Kine 351.
- 363 Kinesiotherapeutics. 4 Hours.** Legal, medical, and physiological aspects of exercise therapy to the application of rehabilitation prescription techniques and desirable recreational activities. Prerequisite: Consent of the instructor.
- 372 Organization and Administration of Athletic Programs. 3 Hours.** The organization and administration of interscholastic athletic competition. Prerequisites: Kine 150 and junior standing.
- 373 Governing Bodies of Sport. 3 Hours.** National governing bodies of sport in America, relationships to multisport organizations, and the international organizations of sport.
- 374 History of Sport. 3 Hours.** Sport in the western world from ancient civilizations to modern times; influence of societal conditions on sport.
- 376 Coaching Strategies. 3 Hours.** Principles and practices of coaching; examines a variety of coaching considerations such as philosophy administration, sport science, roles and responsibilities, and coaching effectiveness.
- 382 At-Risk Youth Leadership. 3 Hours.** The implementation and evaluation of alternative education programs for urban youth living in at-risk environments. Prerequisites: Junior standing and consent of the instructor.
- 383 Modifications in Exercise Programming. 3 Hours.** This course examines the criteria for exercise and fitness participation and the modifications necessary to benefit people with limiting physical conditions. Prerequisites: Kine 358 and junior standing or above.
- 384 Organization and Curriculum Development in Physical Education. 2 Hours.** Curriculum concepts, planning, and evaluation processes; administration of school and physical education programs. Prerequisite: Admission into the teacher education program or consent of the instructor.
- 385 Instructional Methods in Physical Education. 3 Hours.** The application and analysis of affective, cognitive, and psychomotor principles in class management, unit and lesson planning, and instructional techniques. Prerequisites: Kine 255, 260, 261, 262, 263, and 264.



- 386 Elementary School Programs. 3 Hours.** Theory and application of manipulative, locomotor and nonlocomotor activities compatible with the developmental characteristics of elementary school children and the objectives of elementary physical education. Prerequisite: Kine 385.
- 387 Exercise Programming. 3 Hours.** Introduction to the theory of exercise program design for various populations as well as for individual needs. Application of principles to all domains of exercise: cardiovascular, muscular strength and endurance, and flexibility. Prerequisite: Kine 240, 258, and 352; and junior standing or above.
- 388 Physical Education Practicum. 3 Hours.** Field experience in planning, implementing, and evaluating instruction in the school setting under the supervision of a faculty member. Prerequisites: Kine 385 and 386 and consent of the instructor.
- 389 Student Coaching. 3 Hours.** Preparation for and supervised experience in coaching activities in an approved school system. Prerequisites: Concurrent registration in Kine 490 and 491 and recommendation of the supervisor of student teaching.
- 390 Senior Research Project. 3 Hours.** 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. Prerequisites: Kine 397 and senior standing; and a cumulative 4.25 grade point average.
- 394 Special Topics in Kinesiology. 3 Hours.** May be repeated for credit if topic is different for each registration. Students may register for more than one section per term. Selected topics in kinesiology. Prerequisites: Kine 150 and sophomore standing or above and consent of the instructor.
- 397 Senior Research Seminar. 3 Hours.** Fieldwork may be required. 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. Prerequisites: Senior standing or above; and approval of the school.
- 398 Honors Seminar. 3 Hours.** Current topics and issues in kinesiology. A minimum grade of B enables the kinesiology major to be eligible for Departmental Honors. Prerequisites: Junior standing and a cumulative 4.00 grade point average.
- 399 Independent Study in Kinesiology. 1 to 3 Hours.** Selected topics in kinesiology for individual study. Prerequisite: Sophomore standing or above and consent of the instructor; and approval of student project by the instructor.
- 400 Sport Administration. 3 Hours.** Overview of the total management responsibility of the sport administrator, including planning, organizing, staffing, directing, and controlling the sport enterprise. Prerequisite: Graduate standing or consent of the instructor.
- 403 Marketing and Facility Management in Exercise and Wellness. 3 Hours.** Introduction to management and marketing principles as they apply to promoting organizations. Theory and practice of managing exercise and wellness facilities. Prerequisite: Senior standing or above.
- 404 Human Aging and Physical Performance. 3 Hours.** Introduction to human aging focused on the impact of aging to physical structure and function. Investigate research-based evidence of the role of physical activity and exercise in altering physiology, exercise/life expectancy, disease, and disability prevention. Prerequisite: Kine 252 and junior standing or above.
- 406 Business Principles for the Fitness Professional. 3 Hours.** Provides a survey of basic requisite business principles and the application of these principles for students pursuing careers in corporate and community fitness. Prerequisite: Kine 150 and junior standing or above.
- 407 Facilities Design and Event Management. 3 Hours.** Planning, design, and maintenance of new and remodeled sport facilities; management considerations in conducting various types of events. Prerequisite: Kine 400.
- 412 Psychology and Physical Activity. 3 Hours.** Analysis and application of psychological concepts related to process and outcomes of sport and exercise programs.
- 415 Urban Youth Fieldwork. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Interview and placement required for each enrollment. Experience in planning, teaching in, and evaluating physical activity-based urban youth programs. Accompanying seminar to examine related literature and explore the interface between theory and practice. Field work required. Prerequisite: Senior standing or above; and consent of the instructor. Requires interview and placement.
- 416 Programs For Underserved Youth. 3 Hours.** Previously listed as Kine 516. Survey and evaluation of physical activity-based models and programs designed to help underserved youth in school, extended day, and special programs. Includes development of new models. Prerequisites: Junior standing or above and consent of the instructor.
- 417 Aging and Physical Activity. 3 Hours.** Extensive instrumentation experience. Linking the effects of aging on motor performance to diagnostic procedures, prescriptive exercise and instructional processes. Prerequisites: Kine 358 and 406; and senior standing or above.
- 418 Exercise Adherence. 3 Hours.** Exercise behavior as it relates to habitual physical activity. Encompasses health outcomes, exercise adherence factors, intervention, strategies, and exercise settings.
- 420 Adult Fitness Programming and Assessment. 3 Hours.** Emphasis on physiological, psychological, and kinesiological aspects of the physical conditioning process. Diagnostic, prescriptive, and instructional procedures. Prerequisites: KINE 351 and KINE 352; and junior standing or above; or consent of the instructor.
- 421 Advanced Exercise Physiology. 3 Hours.** In-depth study of the mechanisms that underly the acute and chronic responses to physical activity. Extensive computer use required. Prerequisite: KINE 352 and CHEM 114; and junior standing or above; or consent of the instructor.
- 423 Theory and Methods of Stress Testing. 3 Hours.** Theory, procedures, and techniques utilized by the exercise technician to evaluate work capacity, body fat, strength, and cardiovascular endurance. Prerequisites: Kine 421 or 422; and consent of the instructor.
- 427 Biomechanical Analysis of Sport Techniques. 3 Hours.** The scientific mechanical basis for analyzing the techniques of selected sports to minimize performance errors and maximize results. Prerequisite: Kine 351 or consent of the instructor.
- 428 Advanced Functional Anatomy. 3 Hours.** Mechanics and muscular analysis of human motion through the scientific study and application of selected physical principles. Prerequisite: Kine 351.
- 429 Biomechanical Analysis of Sport Injuries. 3 Hours.** The biomechanical principles related to sport injuries. Prerequisite: Kine 351.
- 472 Movement Neuroscience. 3 Hours.** 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. Prerequisites: KINE 251 and KINE 252 and KINE 352 and KINE 354; and junior standing or above; or consent of the instructor.
- 481 Workshop in Kinesiology. 1 to 3 Hours.** May be repeated for credit if topic varies for each registration. Intensified study of selected activities, topics, processes, or areas in kinesiology. Topic will be announced.
- 490 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the school. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the school.
- 491 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the school. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in Kine 490, and approval of the school.

## Medical Laboratory Sciences (MLS)

- 300 Clinical Laboratory Orientation 1 Hour.** Credit is not given for Medical Laboratory Sciences 300 if the student has credit in Biomedical and Health Information Sciences 420. Introduction to clinical laboratory sciences; history; discipline areas; professional organizations; communication; quality assurance; chemical/blood-borne pathogen safety; library; basic laboratory skills and techniques; phlebotomy. Prerequisite: Consent of the instructor.



**302 Specimen Collection and Processing. 1 Hour.** Satisfactory/unsatisfactory grade only. Credit is not given for Medical Laboratory Sciences 302 if the student has credit in Biomedical and Health Information Sciences 420. Principles of phlebotomy and safety/isolation regulations; supervised in/out-patient blood specimen collection to achieve entry-level proficiency; specimen handling; health team communication; workflow organization. Prerequisite: Consent of the instructor.

**305 Biologic Fluids I. 1 Hour.** Renal physiology; routine urine macroscopic and chemical examination; microscopic identification of sediment; urinalysis case studies; correlation with normal/disease states. Prerequisite: Consent of the instructor.

**306 Biologic Fluids II. 1 Hour.** Collection, transport, processing and analysis of body fluids; gastric, stool, amniotic, seminal, CSF; serous transudates and exudates which include synovial, cyst, pleural, pericardial and peritoneal specimens. Prerequisite: Consent of the instructor.

**320 Clinical Chemistry I. 4 Hours.** Principles, practice and basic biochemistry of routine analytical methods for chemical substances in body fluids; correlation of data for selected disease states. Also includes routine macroscopic, microscopic and chemical examination of urine. Prerequisite: Consent of the instructor.

**322 Clinical Chemistry II. 4 Hours.** Review of advanced methodology, comparison and choice; biochemical alteration in disease states emphasizing correlation of laboratory data; theory and practice of advanced methods and automation. Prerequisites: MLS 320 and consent of the instructor.

**330 Hematology I. 3 Hours.** Morphology, production and function of formed elements of blood, as well as normal hemostasis and related diseases. Routine clinical laboratory methods used to assess hematologic and hemostatic disorders. Prerequisite: Consent of the instructor.

**332 Hematology II. 4 Hours.** Clinical hematology, disease correlations, hemostatic disorders, case studies; blood cell and bone marrow morphology differentials; use and interpretation of sophisticated clinical laboratory test systems. Prerequisites: MLS 330 and consent of the instructor.

**334 Hematology Clinical Morphology. 1 Hour.** Study/identification of normal/abnormal morphology white/red blood cells and platelets in peripheral blood and bone marrow. Evaluation of marrow cellularity, megakaryocytes, cellular maturation and abnormalities. Prerequisites: MLS 330 and consent of the instructor.

**341 Molecular and Immunology Techniques. 2 Hours.** Lecture, laboratory exercises, student projects and case studies are used to integrate molecular theory, practices and application to develop a conceptual foundation for molecular and immunologic techniques. Prerequisite: MLS 361 or consent of the instructor.

**350 Clinical Microbiology I. 3 Hours.** Basic principles and procedures of sterilization and disinfection, stains, media, and quality control; methods of isolation, identification, and susceptibility testing of bacteria from clinical specimens; recording and interpreting results. Prerequisites: A general microbiology course and consent of the instructor.

**351 Issues in Clinical Microbiology. 1 Hour.** Advanced study of medically important aerobic/anaerobic bacteria; effects and modes of action of antimicrobial/chemotherapeutic agents; rapid methods of organism detection. Prerequisite: Consent of the instructor.

**352 Clinical Microbiology II. 3 Hours.** Medically important microorganisms including modes of transmission, pathology, therapy and etiologic agents; as well as newer methods of their isolation, identification, and susceptibility testing. Prerequisites: MLS 350 and consent of the instructor.

**361 Immunohematology I. 2 Hours.** Basic immunology and immunogenicity; structure, function and reactions of antigens/antibodies; red cell immunology/serology; ABO-Rh systems; antibody detection; ABO-Rh testing and antibody screening using test tube serological techniques. Prerequisite: Consent of the instructor.

**362 Immunohematology II. 4 Hours.** Blood group systems; antibody identification; compatibility investigation; positive DAT; component preparation/preservation; donors. Laboratory techniques include type and screens, antibody identification. Antibody identification problems and cases. Prerequisite: MLS 361.

**413 Independent Study. 1 to 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Study of topics of limited scope using scientific problem-solving methods and appropriate resources. Prerequisite: Consent of the instructor.

**417 Clinical Experience I. 3 to 10 Hours.** May be repeated for credit with approval of the Division. Supervised clinical laboratory experience at an affiliated institution in one to three clinical disciplines to develop psychomotor skills, clinical reasoning, and professional behaviors for entry level practice. Prerequisites: Completion of required MLS discipline courses, senior standing, and consent of the coordinator.

**418 Clinical Experience II. 3 to 10 Hours.** May be repeated for credit with approval of the Division. Continuation of Medical Laboratory Sciences 417. Supervised clinical laboratory experience at an affiliated institution in one to three clinical disciplines to develop psychomotor skills, clinical reasoning, and professional behaviors for entry level practice. Prerequisites: Completion of sequence of required MLS discipline courses, senior standing, and consent of the coordinator.

**442 Clinical Immunology. 2 Hours.** Histocompatibility, cell mediated immunity, antibody diversity; interactions and assessment of cellular immunity. Hypersensitivity mechanisms, allergy, immunodeficiency diseases, autoimmunity and transplantation. Prerequisite: MLS 361 or consent of the instructor.

**446 Current Issues in Clinical Laboratory Science. 2 Hours.** Laboratory personnel certification/licensure; government regulations; physician office testing/consulting; information systems; education/management issues; ethics; patient interactions; role of allied health professionals; career opportunities; future trends. Prerequisite: Senior standing or consent of the instructor.

**447 Clinical Correlations for Clinical Laboratory Scientists. 3 Hours.** Case studies will assist entry level clinical laboratory professionals to integrate discipline-specific knowledge from clinical chemistry, hematology, immunohematology, immunology, and clinical microbiology into a comprehensive concept of the patient. Prerequisite: Concurrent registration in MLS 417 or 418 or the equivalent; or consent of the instructor.

**455 Medical Mycology, Parasitology, Virology. 3 Hours.** Introduction to medical mycology, parasitology, and virology, including clinical aspects of isolation, classification, physiology, and replication; pathogenesis of nonprokaryotic infectious agents. Prerequisite: MLS 350 and consent of the instructor.

## Occupational Therapy (OT)

**321 Occupational Therapy Processes. 6 Hours.** Introduces clinical reasoning concepts and emphasizes the development of clinical reasoning skills, including: clinical data gathering, assessment, treatment planning, and treatment implementations. Prerequisites: OT 310 and 314.

**341 Practicum Level II-A. 9-12 Hours.** Satisfactory/unsatisfactory grade only. Application of occupational therapy theory during a 12-week supervised practicum to develop psychomotor skills, clinical reasoning, and professional behaviors necessary for entry level practice. Prerequisites: OT 312, 330, 332, and 334.

**351 Practicum Level II-B. 9-12 Hours.** Satisfactory/unsatisfactory grade only. Application of occupational therapy theory during a 12-week supervised practicum, to develop psychomotor skills, clinical reasoning, and professional behaviors necessary for entry level practice. Prerequisite: OT 341.

**461 Advanced Fieldwork Practicum. 3 to 12 hours.** Satisfactory/unsatisfactory grade only. Supervised fieldwork practicum to advance clinical skills in a specialty area of practice. Prerequisite: OT 351 or consent of the instructor.

## Physiology and Biophysics (PhyB)

**341 Physiology. 5 Hours.** Course designed for students in the College of Associated Health Professions. Normal function of the human body at molecular, cell, tissue, organ, and system levels. Prerequisite: Enrollment in a degree program in the College of Associated Health Professions.

# College of Architecture and the Arts Contents

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# College of Architecture and the Arts

## 306 Jefferson Hall

**Dean:** Judith Russi Kirshner.

**Associate Dean:** Bruno Ast.

**Associate Dean for Students:** Vincent A. Paglione.

**(312) 996-3351**

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 recent research to the traditional concepts of disciplinary areas within the college.

The college promotes collaborations and integration between 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 the 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, 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 is offered in architecture, art and design, art history and performing arts (music and theatre) leading to the baccalaureate in that field. 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, and 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.uic.edu/aa/college/>.

## Degree Programs

The College of Architecture and the Arts offers the following undergraduate degree programs (with the required number of hours for completion noted).

### School of Architecture

Bachelor of Arts in Architectural Studies	130 semester hours
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### School of Art and Design

Bachelor of Fine Arts in Graphic Design	138 semester hours
Bachelor of Fine Arts in Industrial Design	131 semester hours
Bachelor of Fine Arts in Photography/Film/Electronic Media	130 semester hours
Bachelor of Fine Arts in Studio Arts (with concentrations in painting and sculpture)	135 semester hours
Bachelor of Fine Arts in Art Education	139 semester hours

### Department of Art History

Bachelor of Arts in Art History	120 semester hours
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### Department of Performing Arts

Bachelor of Arts in Music (Basic Option and Performance Option)	120 semester hours
Bachelor of Arts in Theatre (Performance Track and Directing/Design Track)	120 semester hours
Bachelor of Fine Arts in Performance (Admission to the program will begin Fall 2004)	120 semester hours

## Admission Requirements

### Freshman Admission Requirements

Admission to the College is selective and competitive and admission standards are higher than the minimum ACT/SAT and HSPR requirements. Due to the demand for limited spaces in the School of Architecture and the School of Art and Design, it is recommended that applicants submit their applications and supporting credentials as early as possible in their senior year of high school.

Beginning freshman admission requirements are based on a satisfactory combination of class rank and ACT or SAT test scores. In addition, students must meet the high school subject patterns required for their major. Pattern 1 is required for the School of Art and Design, the Department of Art History, and the Department of Performing Arts. Pattern 2 is required for the School of Architecture. Students should refer to *Admission Requirements and Application Procedures* in this catalog. The

minimum TOEFL score required for admission into the college by international beginning freshmen is 520.

### Transfer Student Admission Requirements

The minimum transfer grade point average for admission to the College of Architecture and the Arts varies with each school or department. Transfer applicants from other institutions with less than the required transfer grade point average should submit a petition with the application for admission consideration. Admission and placement in the School of Architecture and the School of Art and Design are determined by the availability of space in the level of program appropriate for the transfer student. In addition, some college programs may require auditions or portfolio reviews for admission or advanced placement. Students should refer to the requirements listed for each program. The minimum TOEFL score required for admission into the College by international transfer applicants is 520.

**School of Architecture.** Students who have completed at least one full year of architectural design work at another university or college are eligible to apply for advanced placement in the School of Architecture. Applicants wishing to apply for advanced placement must submit a portfolio of design work to the academic advisor in the school. For more information on the portfolio requirement, please visit: <http://www.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.

Transfer applicants are advised that the minimum transfer grade point average for admission to the school is 3.75 (A=5.00).

**School of Art and Design.** Students who have taken art and design courses at a community college should contact the School of Art and Design for placement. Students electing graphic design as the major will be required to present a portfolio of work from the first year program prior to acceptance. Transfer students should be aware that initial courses in most major sequences are offered during the fall semester only. Transfer applicants are advised that the minimum transfer grade point average for admission to the school is 3.75 (A=5.00).

**Department of Art History.** Students seeking admission to the Department of Art History must have a minimum transfer grade point average of 3.75 (A=5.00) from an accredited community college or four-year college or university in order to be considered for admission. However, admission to the Department of Art History is selective and competitive and admissions standards are typically higher than the minimum.

**Department of Performing Arts.** Students seeking admission to the Department of Performing Arts must have a minimum transfer grade point average of 3.50 (A=5.00) from an accredited community college or four-year college or university. 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.

### Acceptable Transfer Hours

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 department in which they plan to enter on the acceptance and credit distribution of transfer work in the major. All final acceptance of transfer credit will be determined by the college upon review of recommendations by the school or department.

Advanced standing for transfer students from foreign institutions may be determined upon a review of the course syllabus and transcript(s) from the foreign institution provided the institution is accredited and recognized by the University.

### Intercollegiate Transfer Admission Requirements

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 for the School of Architecture requires a minimum UIC cumulative grade point average of 3.75. Eligibility for the School of Art and Design requires a minimum UIC cumulative grade point average of 3.75. Eligibility for the Department of Art History requires a minimum UIC cumulative grade point average of 3.75. The Department of Performing Arts requires a minimum 3.50 UIC grade point average for admission to its music and theatre programs. Admission to the college is selective and competitive and admissions standards are higher than the minimum grade point average requirement.

A student in the College of Architecture and the Arts who wants to transfer into another college must follow the procedures of that college.

### Placement Tests

#### Freshman Students

The College of Architecture and the Arts requires all new students, classified as freshmen, to participate in the Pre-enrollment Evaluation Program. This series of tests is designed to help the student make appropriate educational choices and career plans. The Pre-enrollment Evaluation Program consists of five tests: mathematics, reading, composition, academic skills, and career interests.

In addition to these tests, the Department of Art History and the Department of Performing Arts (music-basic option) require that their new freshman students take the foreign language placement test. A reading knowledge of a foreign language, through the intermediate level, is required by these units. Students should consult the department for specific information regarding the language requirement.

#### Transfer Students

The School of Architecture requires its transfer students to take the mathematics<sup>1</sup> and composition,<sup>2</sup> placement tests.

The School of Art and Design requires its transfer students to take the composition placement test.

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1. Students need not take the mathematics test if they have college credit in Calculus and Analytical Geometry I or a more advanced course.

2. Students must take the composition test unless they already have credit in English 160 or an equivalent course in composition at another institution.



The Department of Art History requires its transfer students to take the composition and foreign language<sup>3</sup> placement tests.

The Department of Performing Arts requires its transfer students to take the composition and, for the music majors (Basic Option), foreign language<sup>4</sup> placement tests.

## Academic Advising

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Students in the college are required to see an adviser for registration and enrollment. Advisers are assigned to students generally during the academic year. 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 Load

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.

### 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.

### 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 and maximum room capacities.

## Graduation Requirements

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*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

### Graduation Declaration or Candidacy

Students who are within two terms of graduation should contact first their school or department and then the college office for a complete check of their progress for the degree. A diploma cannot be ordered until a student has completed this graduation check.

### Filing to Graduate

All seniors within two semesters of graduation must file an Intent to Graduate Form in the College Office. Failure to do so will result in a delayed graduation date. *The form must be submitted by Friday of the sixth week of classes.*

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3. Students should take a test in the foreign language they studied in high school or college unless they already have four years of high school or two years of college credit in a single foreign language and are not planning further study. If students have acquired knowledge of a foreign language in some other way and are planning further study, they should take a test in that language. Tests are offered in French, German, Latin, Polish, Russian, and Spanish. For placement in other languages, consult the appropriate department.
  4. Students should take a test in the foreign language they studied in high school or college unless they already have two years of high school or one year of college credit in a single foreign language (usually French, German, or Italian) and are not planning further study.

## General Education Requirements

### Humanities, Social Sciences, Natural Sciences

Minimum graduation requirements for the College of Architecture and the Arts are the same as those of the University; see *Graduation Requirements* in the section *Graduation Requirements and Academic Regulations*. Courses that may be used to fulfill these requirements are listed under the College of Liberal Arts and Sciences *Course Distribution Requirements Chart* in this catalog. The college will also accept as humanities and social sciences credit certain interdisciplinary Honors courses not on this list that have been recommended by the Honors College and approved by the college. A specific listing of approved course distributions among the three areas may be obtained from the college office, Room 306 Jefferson Hall.

### Cultural Diversity Requirement

All undergraduate students must complete one course that fulfills the cultural diversity requirement. A cultural diversity course is one that focuses on a culture different from the dominant American culture. This course may partially satisfy one of the general education requirements in the humanities or social sciences. This requirement may be fulfilled within the major if the course is on the *Cultural Diversity List* in the *College of Liberal Arts and Sciences* section of this catalog. Students should contact the college for final determination of any transfer course presented for cultural diversity credit.

### Foundation and Major Course Requirements

Each school and department in the college has a different set of foundation and major course requirements. Students should consult the appropriate school or department for these requirements.

Course work that duplicates previous credit does not count toward graduation, and 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 0-level courses); and in determining probation, drop, and Dean's List statuses.

### Residence Requirement

Either the first 90 or the last 30 semester hours of degree work must be completed in continuous, uninterrupted residence at UIC. Students who transfer from an accredited community college must earn at least 60 semester hours at an approved four-year institution and must meet the residence requirement of earning the last 30 semester hours at UIC.

### Grade Point Average

Students cannot graduate with less than a 3.00 (A=5.00) grade point average in all work taken at UIC, in all work taken in the major field, and in all work accepted by the University (transfer work plus work taken at UIC).

## Degrees

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A degree from the University of Illinois at Chicago is awarded by action of the Board of Trustees on recommendation by the college and the senate. Degrees are conferred three times a year at the end of each term.

Continuing students and those whose attendance has been interrupted for no more than two years may satisfy the graduation requirements of the curriculum or major in effect at the time they declared a major or were admitted to a curriculum. If requirements change, students may choose to meet the new requirements. Students who return to UIC after an absence of more than two years are responsible for meeting the requirements of the University and college as well as the major or curriculum in effect at the time of the student's re-enrollment. Students should be aware, however, that they may have to fulfill new curriculum or major requirements when external accrediting or certifying agencies modify their professional requirements. Approval of any necessary substitutions in graduation requirements rests with the college.

## College Policies, Rules, and Regulations

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All students in the College of Architecture and the Arts, whether enrolled as full-time, part-time, or nondegree students, are subject to the following policies, rules, and regulations of the college.

### Full-Time Program

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 be taken if a student has a 3.75 cumulative grade point average and is recommended by an 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.

### Changes of Program

Students may drop courses using the Student Access System or UIC Express phone registration 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 fall and spring semesters (weeks 2 through 5 for summer semester) students may drop courses with permission of the College by completing a request form in Room 306 Jefferson Hall. Students should consult with their adviser when changing an approved course schedule. Each student is responsible for enrollment in all courses listed on his or her schedule.

### University Withdrawal

Students who wish to withdraw from *all* their courses must complete a University Withdrawal form in the college office by the *end of the thirteenth week of classes*. Students who withdraw are eligible to register for a subsequent term unless they lose continuing student status, i.e., have not attended UIC for two or more semesters in succession (excluding summer session or an approved leave of absence). Students whose enrollment at UIC has been interrupted for two or more semesters in succession must submit an application for readmission to the University.

## 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 classwork 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.

## Course Prerequisites

Course prerequisites are listed in both the undergraduate catalog and the semester *Timetable*. Only the director or chairperson may waive a prerequisite, if given evidence that the student is adequately prepared to pursue the subject area.

## Elective Credit

The major and basic course requirements together may not provide all of the hours required for graduation. The remaining hours are completed through elective courses, whose careful selection should serve to enrich a student's knowledge and understanding. Elective courses should always be chosen for educational ends and not for the sake of convenience.

## 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 five working days.

## 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.

## Declaration of 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.

## Pass/Fail Option

Students may elect to take a course on the pass/fail 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 pass/fail option. If a student withdraws from a pass/fail 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. Under certain conditions, electives may be taken

under pass/fail; courses being used for specific graduation requirements (such as art history electives) must be taken for a letter grade. For specific pass/fail 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.

5. This option may not be used for English 160 and 161.
6. Students may not use pass/fail to satisfy foreign language requirements in college programs requiring one or two-year sequences.
7. The pass/fail option in a course must be elected by the end of the tenth day of instruction of the term. Students must report to 306 Jefferson Hall to complete a pass/fail request form.
8. The pass/fail option cannot be revoked after the close of the tenth day of instruction in the term.
9. Instructors are not informed that the option has been elected but assign a letter grade in the usual manner.
10. For courses taken under the pass/fail option, a grade of "P" is recorded on the transcript if a letter grade of "A," "B," "C," or "D" is earned. If the letter grade "E" is assigned, an "F" is entered on the transcript. "IN" and "DF" grades are replaced by "P" or "F" upon completion of the courses or converted to "F" if the course completion deadline for an "IN" is not met.
11. The grades of "P" and "F" are not used in the computation of the grade point average.

It is the responsibility of the student to determine eligibility under the pass/fail option. Students will not be notified if they are ineligible for the pass/fail option.

### Academic Probation and Drop 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 "IN" (incomplete) do not exempt a student from probationary and drop 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 3.00 is placed on academic probation and advised to enroll for a minimum of 12 semester hours of credit and earn grades of "B" or better (full-time) for the next term in residence, excluding the summer session. Students unable to maintain a minimum of 12 semester hours of enrollment should consult with a college advisor to establish a plan for satisfactory progress.

**Terminal Probation.** A student who is on probationary status for two consecutive terms is placed on terminal probation. *The student is required to make an appointment to see an adviser in the college office during the third and fourth weeks of the following semester.* Students on terminal probation may be dropped for poor academic progress and are jeopardizing their enrollment in the University.

### Drop Rules

A student on academic or terminal probation may be dropped under one of the following conditions:

1. Failure to earn at least a 3.00 (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. Failure to make progress towards completion of the degree requirements of the college.

Students should follow the advice in the letter sent to them.

## Academic Honors

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### 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 4.50 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 Pass/Fail basis, a grade of *Pass* must be earned.

### College Honors

College Honors will be awarded at the time of graduation to students who have earned at least a 4.40 grade point average for *all* work presented for the degree and who rank among the top 15 percent of the students graduating in the college.

### Departmental Distinction

Departmental Distinction in the major is awarded to students at the time of graduation. The criteria for awarding distinction are established by the departments and schools. Consult the major department for requirements.

## Special Programs and Opportunities

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### Special Programs and Study Abroad

The college units and the University of Illinois at Chicago offer a variety of approved special programs and study abroad opportunities. These programs are intended to give students a unique opportunity to enroll in programs that will give a distinct educational perspective in specific areas and experience a different culture in a context other than those offered at UIC. Students may wish to enroll in special programs and study abroad programs other than those approved by the college units and UIC, and should contact the college for review and verification of acceptance of credit into their degree programs.

### Dual Major

A student may earn a dual major by fulfilling the degree requirements in two areas of concentration, as well as those for the University and the college. The designation of the dual major does not appear on the diploma but is noted on the student's official record.

Students seeking a dual major should contact the appropriate school or department for a curriculum evaluation and then make a declaration for a dual major in the college office.

## 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 department.

## 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 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 residence.

## Student Organizations

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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

## Scholarships, Prizes, and Recognition

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Students in the College of Architecture and the Arts may be eligible for special awards and scholarships in addition to those available through the Office of Student Financial Aid. For more detailed information consult *Scholarships, Prizes, and Awards of Recognition* in the *Financial Aid* section of this catalog.



# Architecture

## 3100 Architecture & Art Building

Director: Daniel Friedman

(312) 996-3335

## Curriculum in Architectural Studies

The four-year Bachelor of Arts in Architectural Studies program provides a pre-professional 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 pre-professional 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 first 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 of the graduate program, please refer to the School of Architecture website and the *UIC Graduate Catalog*.

Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

See *Admission Requirements and Application Procedures* for the admission requirements of the School. Transfer students who have completed one year of course work in architectural design may be eligible for advanced placement in the Bachelor of Arts in Architectural Studies program. Applicants wishing to apply for advanced placement must submit a portfolio of design work to the academic advisor at the School of Architecture.

### Core Courses for the Bachelor of Arts in Architectural Studies

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 interests.

	Hours
Arch 100 —Introduction to Architectural Representation	3
Arch 101 —Visual Studies	4
Arch 102 —Physical Studies	4
Arch 161 —Introduction to Architectural Analysis	4
Arch 162 —Introduction to Architectural Theory	4
Arch 305 —Architectural Design Lecture I	2
Arch 306 —Architectural Design Lab I	4
Arch 307 —Architectural Design Lecture II	2
Arch 308 —Architectural Design Lab II	4
Arch 371 —Design and the Environment	3
Arch 372 —Design and the City	3
Arch 459 —Building Science I	4
Arch 460 —Building Science II	4
Arch 470 —Structures I	4
Math 180 —Calculus I	5
Phys 105 —Introductory Physics I - Lecture	4
Phys 106 —Introductory Physics I - Laboratory	1
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
AH 110 —Art History I	4
AH 111 —Art History II	4

**Total Hours** **73**

### Distribution Requirements<sup>a</sup>

	Hours
One course in history	3
One course in philosophy	3
One course in anthropology	3
One course in sociology	3
Two courses in art history	6
Four liberal arts courses	12
<b>Total Hours</b>	<b>30</b>

<sup>a</sup> One course must also satisfy the cultural diversity requirement.

### Additional Electives

	Hours
Arch 220 (Computers in Architecture) or an advanced architectural computing course	3
One elective in the College of Architecture and the Arts (excluding art history courses)	3
Free electives	6
Pre-architecture/concentration courses	15
<b>Total Hours — Additional Electives</b>	<b>27</b>
<b>Total Hours — Required for the Degree</b>	<b>130</b>

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

## Typical Course Schedule for the Bachelor of Arts in Architectural Studies Degree

### First Year

Fall Semester	Hours
Arch 100 —Introduction to Architectural Representation	3
Engl 160 —English Composition I	3
Hist 100, 101, or 114	3
Phil (choose one 100- level course)	3
LAS elective (choose any course from Liberal Arts & Sciences)	3

**Total Hours** **15**

Spring Semester	Hours
Arch 220 —Computers in Architecture	3
Engl 161 —English Composition II	3
Anth 100, 101, 102, or 200	3
Soc 100, 104, 105, or 110	3
LAS elective (choose any course from LAS)	3

**Total Hours** **15**

### SECOND YEAR

Fall Semester	Hours
Arch 101 —Visual Studies (Studio)	4
Arch 161 —Intro to Architectural Analysis (Theory)	4
Math 180 —Calculus I	5
AH 110 —Art History I	4

**Total Hours** **17**

Spring Semester	Hours
Arch 102 —Physical Studies	4
Arch 162 —Intro to Architectural Theory	4
Phys 105 —Introductory Physics I - Lecture	4
Phys 106 —Introductory Physics I - Laboratory	1
AH 111 —Art History II	4

**Total Hours** **17**

### THIRD YEAR

Fall Semester	Hours
Arch 305 —Architectural Design Lecture I	2
Arch 306 —Architectural Design Lab I	4
Arch 371 —Design and the Environment	3
Arch 459 —Introduction to Building Science I	4
Arch 470 —Structures I	4

**Total Hours** **17**

Spring Semester	Hours
Arch 307 —Architectural Design Lecture II	2
Arch 308 —Architectural Design Lab II	4
Arch 372 —Design and the City	3
Arch 460 —Introduction to Building Science II	4
Arch 471 —Structures II*	3

**Total Hours** **16**

### FOURTH YEAR

Fall Semester	Hours
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Arch 415 —Architectural Design Lecture III*	2
Arch 416 —Architectural Design Lab III*	4
A&A elective (choose any course offered by the College of Architecture and the Arts)	3
AH elective (choose any Art History course at 200 level or higher)**	3
LAS elective (choose any course from LAS)	3
Elective (choose any course offered at UIC)	3

**Total Hours** **18**

Spring Semester	Hours
Arch 417 —Architectural Design Lecture IV*	2
Arch 418 —Architectural Design Lab IV*	4
AH elective (choose any Art History course at the 200 level or higher)**	3
LAS elective (choose any course from LAS)	3
Elective (choose any course offered at UIC)	3

**Total Hours** **15**

**Total Hours** **Required for Degree 130**

\* These courses are recommended for those students planning to go to graduate school in architecture at UIC or elsewhere. These courses are NOT required. Please note that if you do not elect to take these courses, then you must take other electives in order to reach 130 credit hours required for graduation.

\*\* 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.

## Study Abroad

The School of Architecture, in cooperation with the Department of Architecture in Urbana-Champaign and the Unite Pedagogique No. 3, offers a year abroad program that has its home base in Versailles, France. Course work may be taken in design, structures, art/architectural history, architectural electives, and/or architectural theory and analysis. Course work is enriched by guided or informal field study and trips. Further details are available from the School of Architecture.

## Distinction

Distinction in architecture is awarded to students who qualify as described below:

Distinction	A grade point average of at least 4.30 in all Architecture courses.
High Distinction	A grade point average of at least 4.50 in all Architecture courses.
Highest Distinction	A grade point average of at least 4.70 in all Architecture courses.

# Art and Design

**106 Jefferson Hall**  
**Interim Director:** Klindt Houlberg.

**(312) 996-3337**

The programs of the School of Art and Design provide students with technical knowledge and the aesthetic and critical perspectives which are vital for independent artistic and design careers.

Studio courses form the central experiences of the programs promoting the development of students' particular interests. Unlike a traditional art academy model, the School's studio/laboratory format involves students in a scheduled lecture and laboratory experience and also obligates them to engage in significant additional creative work and 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.

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.

The *industrial design curriculum* emphasizes the development of concepts and specifications for a wide range of consumer products, instruments and medical equipment, furniture and lighting systems, transportation, toys, exhibits and packaging centered on the need for socially and environmentally conscious design. The curriculum supports design education through a solid grounding in two- and three- dimensional visuals, rendering, model making, CAD, CAM, and research methodologies.

*Photography, film, and electronic media* (electronic visualization, computer graphics, and video) are media for communication and personal expression. Students are expected to explore the social, cultural, and ideological possibilities of these media. Study leads to careers in education, documentation, marketing, journalism, and artistic expression.

Painting and sculpture are the two components of the *studio arts curriculum*. While obtaining a degree, students may concentrate in one area or explore a combination of more than one, but exposure to both disciplines is required. Required seminars in the sophomore through senior years emphasize contemporary concepts and issues and complement the studio work and critiques. Curriculum requirements also include courses in art history.

The *curriculum in art education* 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.

## 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 4.00 (A=5.00). 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.

## Accreditation

The School of Art and Design is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

## 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 additional 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.

## First-Year Program for All Art and Design Curricula

The first-year requirement is included in all art and design curricula, which follow. Appropriate placement in the program is made for transfer students who have completed equivalent course work.

The following courses are to be completed prior to commencement of the student's major:

	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
<b>Total Hours</b>	<b>24</b>

The first-year courses are offered both fall and spring semesters. Some courses are available in the summer session. Please consult the school for further information and for evaluation of transfer credit.

## Curriculum in Art Education

For the degree of Bachelor of Fine Arts in Art Education, a total of 139 semester hours is required. The secondary education program (6–12) was approved by the state on September 21, 1966. 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 Test must be passed prior to applying for candidacy in the Council on Teacher

Education. The Content Area Test must be passed before the candidate is allowed to student teach (effective Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (effective October 1, 2003). 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 Programs*). Middle School Endorsement (grades 6, 7, and 8) to the Secondary Certificate (Type 09) additionally requires the completion of CIE 484 (3 hours) and EPsy 446 (3 hours).

After completing the foundation program, students who meet or exceed a minimum 3.50 cumulative grade point average (GPA) and a 4.0 GPA in Art & Design courses may apply to the art education curriculum.

Students are required to maintain a 3.50 cumulative grade point average and a 4.0 Art and Design GPA throughout the curriculum.

Only grades of “C” or higher will count toward degree requirements.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Art-Design First Year Program Requirements

	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 —Intro to Time-Based Visual Arts	4
<b>Total Hours</b>	<b>24</b>

### General Education Courses for Art Education Majors

	Hours
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Thtr 161 or 260	3
Two courses in social sciences	6
Two courses in physical or natural sciences	8
AH 110, 111 (fulfills minimum humanities requirement)	8
AH 160 —Trends in Contemporary Art Since 1960	3
<b>Total Hours</b>	<b>34</b>

### Professional Education Courses (4.0 cumulative GPA required with no grade less than “C”)

	Hours
Ed 200 —Education Policy Foundations	3
Ed 210 —The Educative Process	3
Ed 330 —Curriculum, Instruction, Evaluation	4
SpEd 410 —Survey Exceptional Children	3
AD 484 —Educational Practice with Seminar I	6
AD 485 —Educational Practice with Seminar II	6
<b>Total Hours</b>	<b>25</b>

### Art Education Methods Courses (4.0 cumulative GPA required with no grade less than “B”)

	Hours
AD 281 —Foundations of Art Education	4
AD 382 —Art Education Practicum	4
AD 482 —Visual and Verbal Literacy	4
<b>Total Hours</b>	<b>12</b>

### Art Education Major Courses (4.0 cumulative GPA required with no grade less than “C”)

	Hours
AD 203 —Drawing II	4
AD 205 —Intro. to Computer Graphics	4
AD 209 —Color Theory	4
AD 230 —Painting I	4
AD 290 —Studio Seminar I	3
AD 391 —Studio Seminar II	3
8 hours of AD 231 - Painting II or AD 241- Sculpture II or Photography or Video courses at the 200-level	8
8 hours of AD electives chosen from any area of the School of Art & Design	8
2 courses in Art History at the 200-level or above, one to be chosen from the following courses that fulfill the minimum cultural diversity requirement: AH 264 - African-American Art History (3 hours), AH 270 - African Art (3 hours), AH 271- Native American Art (3 hours), AH 272 - Pre-Columbian Art and Architecture (3 hours), AH 274 - Pre Columbian Art of Mesoamerica (3 hours), AH 275 - South Asian Visual Cultures (3 hours), AH 370 - Chinese Art, AH 371 - Japanese Art (3 hours)	6
<b>Total Hours</b>	<b>44</b>

### General Education for Curricula in Graphic Design, Industrial Design, Photography/Film/ Electronic Media, and Studio Arts

	Hours
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
AH 110, 111 (fulfills minimum humanities requirement)	8
Courses in the physical and natural sciences or mathematics	Minimum of 6
Courses in the social sciences	Minimum of 6
General education electives outside of the School of Art and Design (may include up to 4 hours of physical education)	18
<i>One course in General Education must be an approved cultural diversity course.</i>	
<b>Total Hours</b>	<b>44</b>

### Curriculum in Graphic Design

For the degree of Bachelor of Fine Arts in Graphic Design, a total of 138 semester hours is required.

A portfolio review is required prior to acceptance as a major in the graphic design curriculum.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Art-Design First Year Program Requirements

(24 semester hours, see above)



## General Education for Graphic Design

(44 semester hours, see above)

### Graphic Design Major Requirements

	Hours
AD 210, 211, 219, 314, 315, 317, 411, 412, 414, 415 (4 hours of AD 411 may be substituted for 4 hours of AD 412 with portfolio approval)	40
AD 209, and 260 or 274	8
Art-Design elective courses chosen from any area within the School of Art and Design	16
AH 235, 236	6
<b>Total Hours</b>	<b>70</b>

## Curriculum in Industrial Design

For the degree of Bachelor of Fine Arts in Industrial Design, a total of 131 semester hours is required.

A portfolio review is required prior to acceptance as a major in the industrial design curriculum and again at the end of the sophomore year prior to continuance in the industrial design curriculum.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Art-Design First Year Program Requirements

(24 semester hours, see above)

### General Education for Industrial Design

(44 semester hours, see above)

### Industrial Design Major Requirements

	Hours
AD 220, 221, 320, 321, 325, 420, 421, 422, 423	36
AD 403	1
Industrial Design elective	4
Art-Design elective courses chosen from any area in the School of Art and Design in consultation with the student's adviser	16
AH 235, 236	6
<b>Total Hours</b>	<b>63</b>

## Curriculum in Photography/Film/Electronic Media

For the degree of Bachelor of Fine Arts in Photography/Film/Electronic Media, a total of 130 semester hours is required.

A portfolio review is required prior to acceptance as a major in the photography/film/electronic media curriculum.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Art-Design First Year Program Requirements

(24 semester hours, see above)

### General Education for Photography/Film/Electronic Media

(44 semester hours, see above)

## Photography/Film/Electronic Media Major Requirements

Students may concentrate in one area (photography, film, animation, video, or electronic visualization), or may explore a combination of more than one discipline.

	Hours
Six courses from the photography, film, and electronic media sequences chosen in consultation with the student's adviser	24
AD 269	8
Two photography/film/electronic media courses at the 400 level	8
Art-Design elective courses chosen in consultation with the student's adviser	16
Art History electives chosen (with the approval of the student's adviser) from AH 204, 230–234, 392, 404, 430, 432	6
<b>Total Hours</b>	<b>62</b>

### Recommended courses for a Specialization in Photography:

	Hours
AD 260, 261, 262, 263, 264, 265	24
AD 269	8
AD 460, 461	8
<b>Total Hours</b>	<b>40</b>

It is strongly recommended that students complete the following three courses in Art History: AH 230, 231, 430.

### Recommended courses for a Specialization in Film/Animation/Video:

	Hours
Thirty-two hours chosen in any combination from: AD 271, 272, 274, 278, 470, 471, 472, 474, 478, including at least eight hours at the 400 level	32
AD 269	8
<b>Total Hours</b>	<b>40</b>

It is strongly recommended that students complete the following three courses in Art History: AH 230, 231, 430.

### Recommended courses for a Specialization in Electronic Visualization:

	Hours
AD 205	4
AD 208, 408, 409, including at least eight hours at the 400 level (each course may be repeated to fulfill this requirement)	28
AD 269	8
<b>Total Hours</b>	<b>40</b>

## Curriculum in Studio Arts (Painting and Sculpture)

For the degree of Bachelor of Fine Arts in Studio Arts, a total of 135 semester hours is required.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Art-Design First Year Program Requirements

(24 semester hours, see above)

### General Education for Studio Arts (Painting and Sculpture)

(44 semester hours, see above)

## Studio Arts Major Requirements

Students may concentrate in one area (painting or sculpture), or may explore both studio disciplines.

	Hours
AD 290, 391, 492	9
AD 230, 231, 241, 251	16
8 hours of 400-level studio arts courses chosen from either AD 432 or AD 442 ( <i>each of the above courses may be repeated to fulfill this 8 hour requirement</i> )	
AD 493	1
AH 160, plus two elective courses chosen from Art History at the 200 or 300-level related to the major area of concentration with the approval of the student's advisor	
Electives chosen from courses within the School of Art and Design	24
<b>Total Hours</b>	<b>64</b>

## Minor in Studio Arts

Students from other disciplines who wish to minor in studio arts must complete a minimum of 23 semester hours, distributed as follows:

	Hours
AD 102, 140, 230, 251	16
AD 290	3
One additional course at the 200–400 level chosen from the following, depending on the student's area of interest: AD 203, 209, 231, 241, 252, 304, 351, 432, 442,	4
<b>Total Hours</b>	<b>23</b>

## Distinction

Distinction in Art and Design is awarded to students who obtain a grade point average of at least 4.75 in all AD courses.

# Art History

## 302 Henry Hall

**Chairperson:** Robert Brueggemann

**(312) 413-2469**

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>.

## Curriculum in Art History

For the Bachelor of Arts, 120 semester hours in required courses in the department and the college, in general education courses, and in electives. See *Graduation Requirements and Academic Regulations* for additional information.

### Foundation Courses

	Hours
AH 110 — Art History I	4
AH 111 — Art History II	4
Six semester hours in the Schools of Architecture and of Art and Design, chosen with the approval of an adviser	6
<b>Total Hours</b>	<b>14</b>

### Courses for the Major

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:

	Hours
AH 200 — Theories and Methods in Art History	3
At least three semester hours must be selected from among the following courses: AH 404, 422, 430, 432, 434, 435, 441, 450, 460, 463, 470, 471	3
Six semester hours in courses covering material primarily before 1700.	6
Six semester hours in courses covering nonwestern architecture and art.	6

### Language Requirement

A reading knowledge of a foreign language is required, normally French, German, Italian, or Spanish, and should be attained by the end of the junior year. The requirement may be met by taking two years of college language courses, or passing a proficiency examination.

## General Education Requirement

The general education requirement will be 24 semester hours with a minimum of 6 semester hours of humanities, 6 hours of social sciences, 6 hours of natural sciences, and an additional 6 hours, one of which must be a course in cultural diversity, in one or more of these three areas. The humanities general education requirement cannot be fulfilled by the completion of AH 110 and 111. The University requirement of two semesters of writing will be fulfilled with the courses English 160 and 161 (English Composition I and II) each 3 semester hours.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

## Minor in Art History

A minimum of 20 semester hours in art history courses distributed as follows:

	Hours
AH 110 — Art History I	4
AH 111 — Art History II	4
AH courses at the 200, 300, or 400 levels	12
<b>Total Hours</b>	<b>20</b>

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 3.25 is required for the minor.

## Distinction

**Departmental Distinction.** To be eligible for Departmental Distinction, a student must have:

1. Attended UIC for at least three semesters.
2. A university cumulative grade point average of 4.50.
3. Completed 21 semester hours at UIC in courses required for the major.
4. A grade point average of 4.75 in courses in art history.
5. Written a thesis that either expands work represented in a seminar or which grows out of an AH 492 (Readings in Art and Architecture History) course.

### Thesis Requirements.

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 (in order to avoid time crunches and pressure to accept work that needs more attention).
3. The completed thesis must be acceptable to a committee of two faculty members from the Art History Department.
4. The grading of the thesis and the grade in the course will be 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 credit hours required for the major.

# Performing Arts

## L042 Education, Performing Arts, and Social Work Building (312) 996-2977

**Chairperson:** Michael J. Anderson.

The Department of Performing Arts offers programs leading to the *Bachelor of Arts in Music* and the *Bachelor of Arts in Theatre*.

### Curriculum 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, the program offers opportunities for private study in piano, voice, wind, and percussion instruments with some of Chicago's most outstanding artist-teachers.

A large number 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 total of 120 semester hours is required for graduation. Students choose either the *Basic Option* or the *Performance Option*.

#### Requirements for the Major in Music, Basic Option

For the Bachelor of Arts, 55–63 semester hours, distributed as follows:

	Hours
Mus 101, 102, 103, 104, 201, 202, 203, 204	16
Mus 170, 171, 270, 271	8
Mus 230, 231, 232	9
Mus 300, 301	6
Six hours of music electives chosen from Mus 114, 115, 117, 119	6
Six hours of music electives chosen from Mus 302, 303, 304, 306, 307	6
Four hours chosen from Mus 151, 152, 153, 154, 155, 159	4
<i>No more than one hour of credit earned in any term may apply towards this four-hour requirement.</i>	
Mus 110 — Convocation/Recital	0
<i>Students must register for Mus 110 for 4 terms.</i>	
Foreign Language: usually one year of French, German, or Italian at the college level or its equivalent	0–8
<i>With the consent of the department, students may substitute other languages. Two years of foreign language study is strongly recommended.</i>	
<b>Total Hours</b>	<b>55-63</b>

#### Requirements for the Major in Music, Performance Option

##### Admission Requirements

For admission to the major, students are required to audition. The audition should include the performance of two pieces in contrasting styles, as well as scales, and sightreading.

##### Major Requirements

For the Bachelor of Arts, 64–68 semester hours distributed as follows:

	Hours
Mus 101, 102, 103, 104, 201, 202, 203, 204	16
Mus 170, 171, 270, 271	8
Mus 230, 231, 232	9
Mus 300, 301	6
Three hours of music electives chosen from Mus 114, 115, 117, 119	3
Six hours of music electives chosen from Mus 302, 303, 304, 306, 307	6
One to four hours chosen from Mus 151, 153, 159 <sup>a</sup>	1–4
One or two hours chosen from Mus 152, 154, 155, 158 <sup>a</sup>	1–2
One of the following:	8
Mus 180 — Private Instrumental Lessons (8)	
<i>Students must register for Mus 180 for 4 terms. Requires three juries and one half-recital; a minimum grade of "B" is required to remain in the option.</i>	
Mus 182 — Private Voice Lessons (8)	
<i>Students must register for Mus 182 for 4 terms. Requires three juries and one half-recital; a minimum grade of "B" is required to remain in the option.</i>	
One of the following:	6
Mus 280 — Advanced Private Instrumental Lessons (6)	
<i>Students must register for Mus 280 for 2 terms. Requires one full recital.</i>	
Mus 282 — Advanced Private Voice Lessons (6)	
<i>Students must register for Mus 282 for 2 terms. Requires one jury and one full recital.</i>	
Mus 110 — Convocation/Recital	0
<i>Students must register for Mus 110 for 4 terms.</i>	

**Total Hours** **64-68**

<sup>a</sup> 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 or 158; pianists, organists, and string students must complete two hours from 152 or 158 and one hour of a large ensemble.

### General Education Requirement

The general education requirement is 24 semester hours of approved courses with a minimum of 6 semester hours of humanities, 6 hours of social sciences, 6 hours of natural sciences, and an additional 6 hours in one or more of these three areas. The student must also fulfill the Cultural Diversity requirement by choosing one course from the Cultural Diversity List. The University requirement of two semesters of writing will be fulfilled with the courses English 160 and 161 (English Composition I and II) each 3 semester hours.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Minor in Music

	Hours
Mus 101, 102, 103, 104	8
Mus 170, 171	4
Mus 230, 231	6
Three hours of music electives at the 200 level	3
<b>Total Hours</b>	<b>21</b>

### Curriculum in Theatre

The theatre curriculum offers a B.A. and a B.F.A. Both combine the study of acting, directing and design with the study of dramatic texts in their theatrical and cultural contexts. In the B.A. two tracks are offered, the *Performance Track* and the *Directing/Design Track*. The B.F.A. is in Performance.



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. Students choose one of the major tracks below (45 hours).

*Some theatre courses require grades of “B” or higher in courses listed as prerequisites. Please check the course descriptions in this catalog for more information.*

## Performance Track

### Admission Requirements

Admission is by audition (Performance Track) or interview (Directing/Design Track).

### Major Requirements

	Hours
Thtr 109, 161, 260, 261, 262, 280, 444, 445, 452, 453, 470	33
Thtr 423 or 465; 150 and 250, or 251 and 257	9
Mus 100 or 107	3
<b>Total Hours</b>	<b>45</b>

## Directing/Design Track

	Hours
Thtr 109, 161, 423, 444, 445, 453, 465, 470, 472	27
Thtr 150 or 151, 250 or 257, 256 or 259, 255, or 258, and either 282 or 283	15
Mus 100 or 107	3
<b>Total Hours</b>	<b>45</b>

## B.F.A. in Performance

### Admission Requirements

For admission, students are required to audition.

### Major Requirements

	Hours
Thtr 109, 150, 161, 210, 250, 260, 261, 262, 280, 310, 362, 410, 444, 452, 455, 458, 462, 465	57
Thtr 255 or 256 or 257; and either 470 or 472	6
Music 100 or 107	3
<b>Total Hours</b>	<b>66</b>

## General Education Requirement

The general education requirement is 24 semester hours with a minimum of 6 semester hours of humanities, 6 hours of social sciences, 6 hours of natural sciences, and an additional 6 hours in one or more of these three areas. The student must also fulfill the Cultural Diversity requirement by choosing one course from the Cultural Diversity List. The University requirement of two semesters of writing will be fulfilled with the courses English 160 and 161 (English Composition I and II) each 3 semester hours.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

## 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

Students should consult the department about the eligibility criteria for departmental distinction.

# Performing Arts

## L042 Education, Performing Arts, and Social Work Building (312) 996-2977

**Chairperson:** Michael J. Anderson.

The Department of Performing Arts offers programs leading to the *Bachelor of Arts in Music* and the *Bachelor of Arts in Theatre*.

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#### Requirements for the Major in Music, Basic Option

For the Bachelor of Arts, 55–63 semester hours, distributed as follows:

	Hours
Mus 101, 102, 103, 104, 201, 202, 203, 204	16
Mus 170, 171, 270, 271	8
Mus 230, 231, 232	9
Mus 300, 301	6
Six hours of music electives chosen from Mus 114, 115, 117, 119	6
Six hours of music electives chosen from Mus 302, 303, 304, 306, 307	6
Four hours chosen from Mus 151, 152, 153, 154, 155, 159	4
<i>No more than one hour of credit earned in any term may apply towards this four-hour requirement.</i>	
Mus 110 — Convocation/Recital	0
<i>Students must register for Mus 110 for 4 terms.</i>	
Foreign Language: usually one year of French, German, or Italian at the college level or its equivalent	0–8
<i>With the consent of the department, students may substitute other languages. Two years of foreign language study is strongly recommended.</i>	
<b>Total Hours</b>	<b>55-63</b>

#### Requirements for the Major in Music, Performance Option

##### Admission Requirements

For admission to the major, students are required to audition. The audition should include the performance of two pieces in contrasting styles, as well as scales, and sightreading.

##### Major Requirements

For the Bachelor of Arts, 64–68 semester hours distributed as follows:

	Hours
Mus 101, 102, 103, 104, 201, 202, 203, 204	16
Mus 170, 171, 270, 271	8
Mus 230, 231, 232	9
Mus 300, 301	6
Three hours of music electives chosen from Mus 114, 115, 117, 119	3
Six hours of music electives chosen from Mus 302, 303, 304, 306, 307	6
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Mus 180 — Private Instrumental Lessons (8)	
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<i>Students must register for Mus 182 for 4 terms. Requires three juries and one half-recital; a minimum grade of "B" is required to remain in the option.</i>	
One of the following:	6
Mus 280 — Advanced Private Instrumental Lessons (6)	
<i>Students must register for Mus 280 for 2 terms. Requires one full recital.</i>	
Mus 282 — Advanced Private Voice Lessons (6)	
<i>Students must register for Mus 282 for 2 terms. Requires one jury and one full recital.</i>	
Mus 110 — Convocation/Recital	0
<i>Students must register for Mus 110 for 4 terms.</i>	
<b>Total Hours</b>	<b>64-68</b>

<sup>a</sup> 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 or 158; pianists, organists, and string students must complete two hours from 152 or 158 and one hour of a large ensemble.

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For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

### Minor in Music

	Hours
Mus 101, 102, 103, 104	8
Mus 170, 171	4
Mus 230, 231	6
Three hours of music electives at the 200 level	3
<b>Total Hours</b>	<b>21</b>

### Curriculum in Theatre

The theatre curriculum offers a B.A. and a B.F.A. Both combine the study of acting, directing and design with the study of dramatic texts in their theatrical and cultural contexts. In the B.A. two tracks are offered, the *Performance Track* and the *Directing/Design Track*. The B.F.A. is in Performance.

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. Students choose one of the major tracks below (45 hours).

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## Performance Track

### Admission Requirements

Admission is by audition (Performance Track) or interview (Directing/Design Track).

### Major Requirements

	Hours
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Thtr 423 or 465; 150 and 250, or 251 and 257	9
Mus 100 or 107	3
<b>Total Hours</b>	<b>45</b>

## Directing/Design Track

	Hours
Thtr 109, 161, 423, 444, 445, 453, 465, 470, 472	27
Thtr 150 or 151, 250 or 257, 256 or 259, 255, or 258, and either 282 or 283	15
Mus 100 or 107	3
<b>Total Hours</b>	<b>45</b>

## B.F.A. in Performance

### Admission Requirements

For admission, students are required to audition.

### Major Requirements

	Hours
Thtr 109, 150, 161, 210, 250, 260, 261, 262, 280, 310, 362, 410, 444, 452, 455, 458, 462, 465	57
Thtr 255 or 256 or 257; and either 470 or 472	6
Music 100 or 107	3
<b>Total Hours</b>	<b>66</b>

## General Education Requirement

The general education requirement is 24 semester hours with a minimum of 6 semester hours of humanities, 6 hours of social sciences, 6 hours of natural sciences, and an additional 6 hours in one or more of these three areas. The student must also fulfill the Cultural Diversity requirement by choosing one course from the Cultural Diversity List. The University requirement of two semesters of writing will be fulfilled with the courses English 160 and 161 (English Composition I and II) each 3 semester hours.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Architecture and the Arts*.

## 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

Students should consult the department about the eligibility criteria for departmental distinction.

# Architecture and the Arts Courses

## Architecture (Arch)

- 100 Introduction to Architectural Representation. 3 Hours.** Fieldwork required. A course introducing students to freehand drawing, analysis, and transformation skills as a basis for developing creative thought.
- 101 Visual Studies. 4 Hours.** Introduction to elements of visual language and methods of observation fundamental to the production of creative work utilizing two-dimensional representation, composition, and critical analysis. Prerequisites: Arch 100 or approval of the school; and concurrent registration in Arch 161.
- 102 Physical Studies. 4 Hours.** Introduction to issues of materiality and their significance in three-dimensional form making. Study of development of two-dimensional composition into three-dimensional form. Prerequisites: Arch 101 and concurrent registration in Arch 162.
- 161 Introduction to Architectural Analysis. 4 Hours.** 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. Prerequisites: Arch 100 or approval of the school; and concurrent registration in Arch 101.
- 162 Introduction to Architectural Theory. 4 Hours.** Introduction to the concept of architectural theory as an integral part of making, understanding, and interpreting works of architecture. Prerequisites: Arch 161 and concurrent registration in Arch 102.
- 163 Introduction to Architecture I and II. 4 Hours.** For students transferring into the Bachelor of Arts in Architectural Studies Program from other institutions and qualifying UIC students changing majors. Architecture as the composition of environmental, social, behavioral, and cultural factors. Exploration of subjective, objective, and expressive responses to the built environment. Prerequisite: Approval of the School.
- 220 Computers in Architecture. 3 Hours.** Introduction to the use of the computer as a conceptual and representational tool for spatial and formal analysis, communication, and design.
- 305 Architectural Design Lecture I. 2 Hours.** Architectural design from the body to collections of individuals within the natural environment. Emphasis on program and context influenced by analytic, critical, and ethical judgment. Prerequisites: Arch 102 and concurrent registration in both Arch 306 and 371.
- 306 Architectural Design Laboratory I. 4 Hours.** Laboratory component of Architecture 305. Prerequisites: Arch 162 and concurrent registration in Arch 305.
- 307 Architectural Design Lecture II. 2 Hours.** Design of buildings addressing programmatic complexity within an urban environment. Emphasis on program and context influenced by analytic, critical, and ethical judgment. Prerequisites: Arch 305 and concurrent registration in both Arch 308 and 372.
- 308 Architectural Design Laboratory II. 4 Hours.** Laboratory component of Architecture 307. Prerequisites: Arch 306 and concurrent registration in Arch 307.

- 315 Professional Practices. 3 Hours.** 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: Arch 162.
- 331 Architecture Seminar. 1 to 6 Hours.** May be repeated for a maximum of 6 hours of credit. Current problems. Prerequisite: Consent of the instructor.
- 332 Architecture Reading Course. 1 to 6 Hours.** May be repeated for a maximum of 6 hours of credit. Individually planned readings on selected topics under the supervision of a faculty member. Prior to registration, the student should be advised by the instructor. Prerequisite: Consent of the instructor.
- 371 Design and the Environment. 3 Hours.** 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: Arch 162.
- 372 Design and the City. 3 Hours.** 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: Arch 371.
- 391 Architectural Study Abroad. 0 to 17 Hours.** May be repeated for a maximum of 34 hours of credit. Lectures, seminars, studio, and independent travel/study abroad. Architectural/art history, architectural elective and/or architectural theory and analysis. Prerequisites: A 3.50 cumulative grade point average in architecture and approval of the school.
- 395 Cooperative Education. 1 Hour.** Fieldwork required. Satisfactory/Unsatisfactory grade only. May be repeated for a maximum of 3 hours of credit. Introduction to architectural practice. Offers students the opportunity to couple academic learning with professional experience in an off-campus placement. Prerequisite: Consent of the instructor. Restricted to students with third or fourth year standing in the B.A. in Architectural Studies program.
- 399 Architecture Elective I. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Special topics in theory, design, building science, technology or graphic skills. Prerequisites: Approval of the School.
- 405 Architecture Design Lecture I. 2 Hours.** Process of architecture as a synthesis of diverse forces into formal compositions. The struggle to integrate architectural wholes at smaller scales. Prerequisites: Arch 362 and concurrent registration in Arch 406.
- 406 Architecture Design Laboratory I. 4 Hours.** Laboratory and case study component of Architecture 405. Prerequisites: Arch 362 and concurrent registration in Arch 405.
- 407 Architecture Design Lecture II. 2 Hours.** Process of architecture as a synthesis of diverse forces into formal compositions. The struggle to integrate architectural wholes at large scales. Prerequisites: Arch 405 and 406 and concurrent registration in Arch 408.
- 408 Architecture Design Laboratory II. 4 Hours.** Laboratory and case study component of Architecture 407. Prerequisites: Arch 405 and 406 and concurrent registration in Arch 407.

- 412 Women and the Environment. 3 Hours.** Same as Gender and Women's Studies 412. Women's place in the built environment; the role of gender in environmental experience including women as users, designers, planners, policy makers, and critics. Prerequisite: Advanced undergraduate or graduate standing or consent of the instructor.
- 415 Architectural Design Lecture III. 2 Hours.** Examination of the relationship of architecture to society, technological change, and structural and environmental innovation. Prerequisites: Arch 307 and Arch 308 and approval of the school; and concurrent registration in Arch 416.
- 416 Architectural Design Laboratory III. 4 Hours.** Laboratory component of Architecture 415. Prerequisites: Arch 307 and Arch 308 and approval of the school; and concurrent registration in Arch 415.
- 417 Architectural Design Lecture IV. 2 Hours.** Diverse topics in architecture and interdisciplinary practices; design problems representing areas of specialized interest within and allied to the practice of architecture. Prerequisites: Arch 415 and concurrent registration in Arch 418.
- 418 Architectural Design Laboratory IV. 4 Hours.** Laboratory component of Architecture 417. Prerequisites: Arch 416 and concurrent registration in Arch 417.
- 443 Professional Practice I. 2 Hours.** Legal and ethical considerations in architectural practice; operation and management guidelines. Overview of the history of the professional architectural practice. Prerequisite: Completion of the second plateau or approval of the school.
- 444 Professional Practice II. 2 Hours.** 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. Prerequisites: Arch 443 and approval of the school.
- 459 Introduction to Building Science I: Ethics in Building. 4 Hours.** Examines the architect's role in protecting the health, safety and welfare of the public through responsible and ethical building practices. Prerequisites: Third year standing in the Bachelor of Arts in Architectural Studies program or approval of the school. Requires concurrent registration in Arch 305 and Arch 306.
- 460 Introduction to Building Science II: Technics in Building. 4 Hours.** Introduction to building construction processes, terminology, principles, conventions, standards, applications, restrictions and communications pertaining to construction materials and assemblies. Prerequisite: ARCH 459 or approval of the school.
- 470 Structures I: Structural Analysis. 4 Hours.** 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. Prerequisites: MATH 180 and PHYS 105 and PHYS 106.



**471 Structures II: Material Science. 3 Hours.** 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. Prerequisites: ARCH 470 and approval of the school.

**485 Theories of Urbanism. 4 Hours.** Introduction to the processes shaping the city and the theories of urbanism, urban infrastructure and urban landscape from the middle of the nineteenth century to the present. Prerequisite: Graduate standing in the Master of Architecture program or, for students enrolled in the Bachelor of Arts in Architectural Studies program, consent of the instructor.

**486 Urban Ecologies and Infrastructures. 4 Hours.** 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: Graduate standing in the Master of Architecture program or, for students enrolled in the Bachelor of Arts in Architectural Studies program, consent of the instructor.

**499 Architecture Elective II. 2 to 6 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Special problems in theory, design, building science, or graphic skills (manual or automated). Prerequisite: Completion of architecture graduate course work; or consent of the instructor.

## Art and Design (AD)

**102 Drawing I: Beginning. 4 Hours.** Introduction to drawing: orientation to the descriptive and expressive potential of drawing through exposure to a variety of subjects, media, and formal concepts. Prerequisite: Approval of the school.

**110 Graphic Design I. 4 Hours.** 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: Approval of the school.

**120 Industrial Design I. 4 Hours.** 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: Approval of the school.

**140 Sculpture I: Beginning. 4 Hours.** Major directions and underlying historical precedents in contemporary sculpture. Orientation to concepts of 3-dimensionality through use of relevant processes and techniques. Prerequisite: Approval of the school.

**160 Photography I. 4 Hours.** Introduction to photography: basic familiarity with the camera, studio, and laboratory. The social, cultural, critical, and aesthetic consideration of the medium. Prerequisite: Approval of the school.

**170 Introduction to Time-Based Visual Arts. 4 Hours.** 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: Approval of the school.

**203 Drawing II: Intermediate. 4 Hours.** May be repeated for a maximum of 8 hours of credit. Study of the human figure, drawing practices including abstract principles, and invention through an exploration of a variety of methods and media. Prerequisite: For students in the BFA in Studio Arts program: Completion of the Art-Design First Year Program or sophomore standing, or consent of the instructor. For the Studio Arts Minor: AD 102 or approval of the school.

**205 Introduction to Computer Graphics. 4 Hours.** Extensive computer use required. Introduction to the micro-computer for personal expression, including graphics programming, real-time computer animation, sound, and interactive software design. Prerequisite: Sophomore standing or above and completion of the art and design first-year program and approval of the school.

**209 Color Theory. 4 Hours.** To develop, through experience, observation and articulation, an understanding of color and color action, and a feeling for color relationships. Prerequisite: Completion of the art and design first-year program.

**210 Graphic Design II. 4 Hours.** Form comparison and sequencing. Introduction to symbols, images, and letterforms. Prerequisites: Completion of the art and design first-year program and approval of the school.

**211 Graphic Design III. 4 Hours.** Materials and processes in image-making; the interaction of media in problem-solving. Theory and practice of symbols and semiotic codes in society. Prerequisite: AD 210.

**219 Typography I. 4 Hours.** Introduction to the aesthetics and mechanics of typography. Prerequisite: Credit or concurrent registration in AD 210 or in AD 211.

**220 Industrial Design II. 4 Hours.** May be repeated for a maximum of 8 hours of credit with Industrial Design Faculty Committee approval. Students may register for more than one section per term. Fundamental concepts of design with individual projects based on user behavior, simple anthropometrics, and basic manufacturing processes. Two- and three-dimensional communication techniques for design presentations. Prerequisites: Completion of the art and design first-year program or the equivalent and approval of the school.

**221 Industrial Design III. 4 Hours.** May be repeated for a maximum of 8 hours of credit with Industrial Design Faculty Committee approval. Students may register for more than one section per term. Individual projects with fundamental concepts of design based on user behavior, simple anthropometrics, and basic manufacturing processes. Two- and three-dimensional communication techniques for design presentations. Prerequisites: Completion of the art and design first-year program or the equivalent and approval of the school.

**230 Painting I: Beginning. 4 Hours.** Beginning painting: introduction to major directions of contemporary painting; underlying historical precedents; orientation to subjects and formal concepts using relevant materials and processes. Prerequisites: Open only to sophomores, juniors, and seniors and completion of the art and design first-year program or approval of the school; or, for studio arts minors, AD 102 and approval of the school.

**231 Painting II: Intermediate. 4 Hours.** May be repeated for a maximum of 8 hours of credit. Insight into innovations and major directions of representation and abstraction; orientation to development of and/or experimentation with subjects, formal concepts, materials, and processes. Prerequisites: AD 230; and sophomore standing or above or approval of the school. Studio Arts Majors must have credit or concurrent registration in AH 160.

**241 Sculpture II: Intermediate. 4 Hours.** Exploration of the major directions of contemporary sculpture; development of three-dimensional concepts through the use of processes and techniques of twentieth- and twenty-first-century sculpture. Prerequisite: Sophomore standing or above and completion of the art and design first-year program or approval of the school. Studio Arts Majors must have credit or concurrent registration in AH 160.

**251 Printmaking I: Beginning. 4 Hours.** Basic printmaking principles and techniques used in tandem with drawing and collage to explore two-dimensional practices and concepts. Prerequisite: For students in the BFA in Studio Arts program: Completion of the art and design first year program or sophomore standing or consent of the instructor. For students in the Studio Arts Minor: AD 102 or approval of the school.

**252 Printmaking II: Intermediate. 4 Hours.** May be repeated for a maximum of 8 hours of credit. Investigating monoprinting as a flexible means of image production rendering unique prints that can incorporate painting, drawing, and photographic elements. Prerequisite: Sophomore standing or above or approval of the school; and AD 251 or consent of the instructor.

**260 Photography II. 4 Hours.** Photographic modification and graphic applications of the medium using high contrast materials and/or computer technology. Concepts of time, space, sequence, and multiple imagery. Prerequisite: Completion of the art and design first-year program or consent of the instructor.

**261 Color Photography. 4 Hours.** Processes, techniques, materials, and aesthetics of color photography and their application. Prerequisites: Completion of the art and design first-year program and AD 209 or consent of the instructor.

**262 View Camera Photography. 4 Hours.** View camera control applied to architectural interiors and exteriors; studio set-up and lighting of people and still-life subjects; artistic and commercial considerations. Prerequisite: Completion of the art and design first-year program or consent of the instructor.

**263 Documentary Photography. 4 Hours.** The photographic process applied to recording, documenting, and interpreting real life situations and events. Prerequisite: Completion of the art and design first-year program or consent of the instructor.

**264 Media Explorations. 4 Hours.** May be repeated for a maximum of 8 hours of credit. Introduction to new or specialized technologies. Prerequisite: AD 260.

**265 Representation and Media. 4 Hours.** Critical and practical introduction to visual representation with an emphasis on contemporary mass media. Texts cover 1954 through the present. Prerequisite: AD 260 or consent of the instructor.

- 269 Photography/Film/Electronic Media Colloquium. 2 Hours.** Must be repeated for a minimum of 8 hours of credit. Films, lectures, and discussion relating to photography, film, and electronic media. Prerequisite: Completion of the art and design first-year program.
- 271 Cinema I. 4 Hours.** Experimental approach to the communicative and expressive possibilities of cinema. Introduction to basic film handling tools and methods. Prerequisite: Completion of the art and design first-year program or consent of the instructor.
- 272 Cinema II. 4 Hours.** Projects involving the communication of specific ideas through the motion picture medium. Prerequisite: AD 271.
- 274 Animation I. 4 Hours.** Introduction to basic motion picture animation techniques including stop-motion, cycles, metamorphosis, and special graphic processes and effects. Prerequisite: Completion of the art and design first-year program.
- 278 Video I. 4 Hours.** May be repeated for a maximum of 8 hours of credit. An experimental approach to the formal and expressive potential of live action recording using small format video systems. Emphasis on individual projects. Prerequisite: Completion of the art and design first-year program or consent of the instructor.
- 281 Foundations of Art Education. 4 Hours.** May be repeated once if grade is lower than B. Field work required. 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. Prerequisite: Junior standing or above and Ed 210 and approval of the school.
- 290 Studio Seminar I. 3 Hours.** Introduction to the concepts and attitudes of contemporary art practice. Prerequisites: Credit or concurrent registration in AD 230 or credit or concurrent registration in AD 241 or credit or concurrent registration in AD 251 and completion of the art and design first-year program or approval of the school.
- 304 Drawing III: Advanced. 4 Hours.** May be repeated for a maximum of 8 hours of credit. Continuation and elaboration of drawing techniques with emphasis upon individual exploration of techniques and conceptual visual thinking. Prerequisite: AD 203 or approval of the school.
- 306 Special Topics in Art and Design. 1 to 4 Hours.** May be repeated for credit. Specialized topics in art and design directed and announced by the instructor. Prerequisites: Completion of the art and design first-year program and consent of the instructor.
- 314 Graphic Design IV. 4 Hours.** Previously listed as AD 212. Design and typographic practice and exploration with emphasis on current technology and grid systems in graphic design. Prerequisites: AD 211 and AD 219.
- 315 Graphic Design V. 4 Hours.** Previously listed as AD 213. Design in the third dimension. Architectural, environmental, packaging and/or exhibition applications. The understanding of how graphic designers work beyond the studio emphasized. Prerequisite: AD 314.
- 317 Digital Media in Graphic Design. 4 Hours.** Investigates the relationship between image, typography and meaning within the context of the digital environment. Extensive computer use required. Prerequisites: AD 205; and junior standing or above or approval of the school.
- 319 Typography II. 4 Hours.** Experimental typography. Prerequisites: AD 219 and AD 314.
- 320 Industrial Design IV. 4 Hours.** May be repeated for a maximum of 8 hours of credit with Industrial Design Faculty Committee approval. Students may register for more than one section per term. Design of product systems with individual projects based on societal needs, human factors analysis, and advanced manufacturing processes. Written and visual communication techniques for presentations. Prerequisites: AD 220 and 221, or the equivalent, passage of portfolio review by the industrial design faculty committee, and approval of the school.
- 321 Industrial Design V. 4 Hours.** May be repeated for a maximum of 8 hours of credit with Industrial Design Faculty Committee approval. Students may register for more than one section per term. Individual projects with design of product systems based on societal needs, human factors analysis, and advanced manufacturing processes. Written and visual communication techniques for presentations. Prerequisites: AD 220 and 221, or the equivalent, passage of portfolio review by the industrial design faculty committee, and approval of the school.
- 325 Interaction Design I. 4 Hours.** Extensive computer use required. 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. Prerequisites: AD 205 and junior standing or above or consent of the instructor.
- 351 Printmaking III: Advanced. 4 Hours.** May be repeated for a maximum of 12 hours of credit. Previously listed as AD 451. Advanced study of contemporary techniques and ideas using multi-plate printing; experimentation translating digital, photographic Xerox transfers, and other printmaking processes. Prerequisites: AD 203 and AD 231 and AD 241 and AD 252 and AD 391; and junior standing or above; or approval of the school.
- 382 Art Education Practicum. 4 Hours.** May be repeated once if grade is lower than B. Experience in classroom teaching and curriculum design, connecting practices of contemporary artmaking with practices of contemporary critical pedagogy. Design and teach interdisciplinary curriculum. Prerequisite: Grade of B or better or concurrent registration in AD 281; and junior standing or above; and approval of the school.
- 391 Studio Seminar II. 3 Hours.** Specific consideration of student's work in relation to directions in contemporary art; may include exercises in critical writing in relation to current studio work. Prerequisites: AH 160 and AD 290 and AD 231 and AD 241 and AD 251; and junior standing or above and concurrent registration in one 200-level studio arts course.
- 400 Foreign Studies in Art and Design. 1 to 16 Hours.** Graduate credit only with approval of the Director of the School and the Director of Graduate Studies. Satisfactory/Unsatisfactory grade only. May be repeated with the approval of the appropriate major area faculty committee, the Director of the School and/or Director of Graduate Studies. Study abroad within approved programs of foreign exchange and/or education. Prerequisites: 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.
- 403 Design Colloquium. 1 Hour.** May be repeated for a maximum of 4 hours of credit. Lectures, presentations, and/or demonstrations related to design issues impacting on the professions of graphic design and industrial design. Prerequisite: 8 credit hours of 200-level graphic design or industrial design major courses or the equivalent.
- 406 Advanced Special Topics in Art and Design. 1 to 4 Hours.** May be repeated for credit. Intensive workshops in specific art and design related topics and techniques directed and announced by the instructor. Prerequisites: Junior or graduate standing and consent of the instructor.
- 408 Computer Art-Design. 4 Hours.** May be repeated for a maximum of 12 hours of credit. The computer as a tool for the artist-designer. The design of interactive computer experiences and the production of computer animations. Prerequisite: AD 205 or high-level programming language experience.
- 409 Electronic Media Events. 4 Hours.** May be repeated for a maximum of 12 hours of credit. Using video production tools and computer graphic systems to produce a public event. Prerequisite: AD 208 or 408.
- 410 Advanced Special Topics in Graphic Design. 1 to 5 Hours.** May be repeated for a maximum of 8 hours of credit. Intensive workshops in specific graphic design related topics and techniques directed and announced by the instructor. Extensive computer use required. Prerequisite: AD 315; and junior standing or above; and consent of the instructor. Portfolio review required.
- 411 Graphic Design Professional Practice. 4 Hours.** Previously listed as AD 311. Design projects with real-world clients in the private or public sector. The designer/client relationship. Prerequisites: AD 315 and AD 317; and senior standing or above; and consent of the instructor.
- 412 Graphic Design Thesis. 4 Hours.** Previously listed as AD 312. May be repeated for a maximum of 8 hours of credit. Thesis topics chosen in consultation with graphic design faculty. Prerequisites: 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.
- 414 Interactivity in Graphic Design. 4 Hours.** Advanced examination of graphic design in the new media technologies. Extensive computer use required. Prerequisites: AD 315 and credit or concurrent registration in AD 412; and senior standing or above.

- 415 Graphic Design Seminar. 4 Hours.** Previously listed as AD 310. Seminars and lectures conducted by faculty, design professionals, and individuals from design-related disciplines. Prerequisites: AD 315 and AD 317 and consent of the instructor. Open only to seniors and graduate students.
- 418 Independent Study in Graphic Design. 1 to 5 Hours.** May be repeated for a maximum of 8 hours of credit. Supervised independent study in graphic design. Extensive computer use required. Prerequisite: Senior standing or above and consent of the instructor. Taken by faculty invitation only.
- 420 Industrial Design VI. 4 Hours.** May be repeated for a maximum of 8 hours of credit with Industrial Design Faculty Committee approval. Students may register for more than one section per term. Planning of advanced product systems with group projects based on international contexts, human/environmental factors analysis, and advanced technological processes. Advanced audio-visual presentations and technical reports. Prerequisites: Completion of 8 hours of AD 320 and 321 or the equivalent and approval of the school.
- 421 Industrial Design VII. 4 Hours.** May be repeated for a maximum of 8 hours of credit with Industrial Design Faculty Committee approval. Students may register for more than one section per term. Group projects with planning of advanced product systems based on international contexts, human/environment factors analysis, and advanced technological processes. Advanced audio-visual presentations and technical reports. Prerequisites: Completion of 8 hours of AD 320 and 321 or the equivalent and approval of the school.
- 422 Interaction Design II. 4 Hours.** Extensive computer use required. 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. Prerequisites: AD 325 and senior standing or above or consent of the instructor. Priority in enrollment given to industrial design and electronic media majors.
- 423 Industrial Design Senior Project. 4 Hours.** Application of the principles of problem-solving and industrial design communication methodology to the organization and presentation of a faculty approved senior or graduate project. Prerequisites: AD 422 or the equivalent and approval of the school.
- 424 Industrial Design Independent Study. 4 to 8 Hours.** May be repeated for a maximum of 16 hours of credit. Supervised independent study in any area of industrial design activity not covered in the regular curriculum. Prerequisites: Completion of 8 hours of AD 320 and 321 or the equivalent and consent of the school.
- 425 Design Visualization. 4 Hours.** Extensive computer use required. May be repeated for a maximum of 12 hours of credit. Advanced applications of computer-aided design software, including 3-D surface modeling and solid modeling. Applied computer-aided manufacturing, robotics, and expert systems. Prerequisites: AD 325 and junior standing or above and consent of the instructor. Priority in enrollment given to industrial design and electronic media majors.
- 432 Painting III: Advanced. 4 Hours.** May be repeated for a maximum of 12 hours of credit. Advanced painting: emphasis on individual creative initiative and development, in concert with understanding of contemporary formal, expressive, and conceptual issues. Prerequisites: Senior standing or above, or approval of the school, and 8 hours of AD 231; and AD 241 and AD 251 and AD 391, or consent of the instructor with portfolio review.
- 442 Sculpture III: Advanced. 4 Hours.** May be repeated for a maximum of 12 hours of credit. Independent projects with faculty supervision. Experimentation and in-depth study of contemporary concepts, processes, and techniques to develop a personal, creative, visual language; primarily self-directed. Prerequisites: AD 231 and AD 241 and AD 251 and AD 391 and senior standing or above; or approval of the school.
- 460 Advanced Photography. 4 Hours.** Instructor originated projects in any area of photographic activity. Prerequisites: AD 261, 262, 263, 265, and 269; or graduate standing.
- 461 Photography Tutorial. 4 Hours.** Student generated projects. Prerequisite: AD 460 or graduate standing.
- 470 Documentary Film/Video Production. 4 Hours.** Group or individual projects dealing with the communication of fact through motion picture or video media. Prerequisite: AD 272 or consent of the instructor.
- 471 Advanced Film/Video/Animation. 4 Hours.** May be repeated for a maximum of 12 hours of credit. Investigation of contemporary concerns in various areas of film and/or video activity under the direction of an instructor. Prerequisites: AD 272 or 474 and consent of the instructor.
- 472 Independent Study in Film/Video/Electronic Visualization. 4 to 12 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one four-hour section per term, or repeat the course in four-hour sections in subsequent terms. Supervised independent study in any areas of cinema, video production, or electronic visualization. Prerequisites: 12 hours in any film, video, and/or electronic visualization courses and consent of the instructor.
- 474 Advanced Animation. 4 Hours.** May be repeated for a maximum of 16 hours of credit. Students may register for more than one section per term. Applications of advanced methods in film animation. Creative projects utilizing sound synchronization, computer motion synthesis, and related techniques. Prerequisite: AD 274.
- 478 Video II. 4 Hours.** May be repeated for a maximum of 12 hours of credit. Creative projects using small format video systems. Prerequisite: AD 278.
- 482 Visual and Verbal Literacy in Art Education. 4 Hours.** May be repeated once if grade is lower than B. Field work required. 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. Prerequisites: 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.
- 484 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the school. May be repeated once if grade lower than B. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Grade of B or better in AD 281, AD 382 and AD 482; and credit or concurrent registration in AD 485; and senior standing or above. Completion of 100 clock hours of pre-student-teaching field experiences, and approval of the school.
- 485 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the school. May be repeated once if grade lower than B. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Grade of B or better in AD 281, AD 382 and AD 482; and credit or concurrent registration in AD 484; and senior standing or above; and approval of the school. Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences.
- 488 Computer Graphics I. 3 Hours.** Same as Computer Science 488. Principles of interactive computer graphics. Raster and vector display, techniques, and hardware considerations. Introduction to two-dimensional and three-dimensional rendering. Laboratory. Prerequisite: Credit or concurrent registration in CS 340.
- 492 Studio Seminar III. 3 Hours.** Rigorous examination of historical developments in art as the basis for understanding new approaches to the continuum of contemporary art. Prerequisites: AD 231 and AD 241 and AD 251 and AD 391; and credit or concurrent registration in AD 432 or credit or concurrent registration in AD 442; and senior standing or above; or approval of the department.
- 493 Studio Arts Senior Thesis. 1 Hour.** Satisfactory/Unsatisfactory grade only. A self-curated body of work presented in a gallery setting; a serious visual and conceptual investigation reflecting a culmination of the student's senior year. Prerequisite: Credit or concurrent registration in AD 432 or 442 or 451.
- 494 Special Topics in Art Therapy. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Specializations, new developments in the field, in-depth study of theory, process, application, or independent study. Prerequisite: Consent of the instructor.
- 499 Cooperative Education. 0 to 4 Hours.** May be repeated for credit. Satisfactory/unsatisfactory grade only. Only 8 hours of credit may be counted toward satisfying requirements for any art and design major. Introduction to professional practice offering students the opportunity to couple academic learning with professional experience in an off-campus placement. Prerequisites: Junior standing, a minimum cumulative grade point average of 4.00, and approval of the school.

## Art History (AH)

- 100 Introduction to Art and Art History. 3 Hours.** Forms, meanings, and purposes of art. Discussion of techniques, styles, and content as well as historical and social contexts, in various media and cultures.



- 110 Art History I. 4 Hours.** Survey of world art and architecture from prehistoric times to the end of the Middle Ages.
- 111 Art History II. 4 Hours.** Survey of world art and architecture from the Renaissance to the present.
- 122 History of Chicago Architecture. 3 Hours.** Survey of Chicago's architecture and built environment from 1803 to the present.
- 160 Trends in International Contemporary Art since 1960. 3 Hours.** Surveys international trends in art since 1960. Emphasis is on movements, new media, intermedia, criticism and theory. Prerequisite: Consent of the instructor or Major in Studio Arts.
- 200 Theories and Methods in Art History. 3 Hours.** The methodologies and theories of the discipline and their application to selected problems. Required for majors in art history. Prerequisites: Sophomore standing and major in art history, or consent of the instructor.
- 204 Greek Art and Archaeology. 3 Hours.** Same as Classics 204 and History 204. 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.
- 205 Roman Art and Archaeology. 3 Hours.** Same as Classics 205 and History 205. Contributions of archaeological excavations to the study of ancient Rome and her empire, 1000 BC to 400 AD. Architecture, sculpture, and painting in their social and historical contexts.
- 207 Topics in Architecture, Art, and Design. 3 Hours.** May be repeated when topics vary. Selected topics in the history of architecture, art, and design. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 210 The Art and Archaeology of Ancient Egypt. 3 Hours.** Same as African-American Studies 210 and Archaeological Studies 210. Ancient Egypt from 6000 BC to 400 AD. Architecture, sculpture, and painting in their social and historical contexts. Prerequisite: Sophomore standing.
- 211 History of Urbanism. 3 Hours.** The history of the city: its form, meaning, function, and representation from the classical antiquity to the present. Selected topics in the history of settlement patterns and the planning of cities.
- 221 Medieval Architecture. 3 Hours.** The development of early Christian, Byzantine, Romanesque, and Gothic Architecture. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 222 Renaissance Architecture. 3 Hours.** The development of architecture in Renaissance Europe from 1400 to 1600. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 223 Baroque Architecture. 3 Hours.** The development of architecture in Europe from 1600 to 1750. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 224 North American Architecture, 1600 to the Early Twentieth Century. 3 Hours.** The development of architecture, urbanism, and architectural theory from the first Western European settlements of North America through the early twentieth century. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 225 European Architecture, 1750-1900. 3 Hours.** The development of European architecture, urbanism, and architectural theory from 1750 to 1900. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 228 History of Landscape Architecture. 3 Hours.** Survey of developments in the history of gardens, parks, and other designed spaces from antiquity to the present.
- 230 History of Photography I: The Nineteenth Century. 3 Hours.** History of photography from the 1820s to the beginning of the twentieth century.
- 231 History of Photography II: The Twentieth Century. 3 Hours.** History of photography from the beginning of the twentieth century to the present.
- 232 History of Film I: 1890 to World War II. 3 Hours.** Same as English 232. History of film from its beginnings in the 1890s up to World War II.
- 233 History of Film II: World War II to the Present. 3 Hours.** Same as English 233. History of film from World War II to contemporary movements in world cinema.
- 235 History of Design I: 1760-1925. 3 Hours.** Survey of industrial and graphic design from the Industrial Revolution to 1925.
- 236 History of Design II: 1925 to the Present. 3 Hours.** Survey of industrial and graphic design from 1925 to the present. Prerequisite: Credit in AH 235 is recommended.
- 242 Medieval Art and Architecture I. 3 Hours.** The art and architecture of Greek and Latin Christendom from the second through the eleventh centuries. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 243 Medieval Art and Architecture II. 3 Hours.** Art and architecture of Western Europe from the twelfth through the fourteenth centuries. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 250 Italian Renaissance Art. 3 Hours.** Painting, sculpture, and architecture in Italy from the fourteenth through the sixteenth centuries. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 251 Northern Renaissance Art and Architecture. 3 Hours.** The art and architecture of the Low Countries, Germany, France, and England during the fifteenth and sixteenth centuries. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 252 Art of the Baroque and Rococo. 3 Hours.** European painting, sculpture, and architecture of the seventeenth and early eighteenth centuries. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 260 European Art from 1750 to 1913. 3 Hours.** Painting and sculpture in Western Europe from Neo-Classicism to the modernist avant-gardes. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 261 European and American Art from 1913 to the Present. 3 Hours.** Painting and sculpture in Western Europe and the United States from 1913 to the present. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 262 American Art to 1945. 3 Hours.** The visual arts in the United States from the colonial period through 1945. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 263 Latin American Colonial Art. 3 Hours.** A survey of Latin American art and architecture from European contact to independence. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 264 African-American Art. 3 Hours.** Same as African-American Studies 264. Interdisciplinary survey of the artistic production of African-American artists from the nineteenth century to the present.
- 269 Art and Archaeology of South America. 3 Hours.** Same as Anthropology 269. Credit is not given for Art History 269 if the student has credit in Anthropology 228 or Art History 273 or Latin American and Latino Studies 239 or Latin American and Latino Studies 259. Survey of Andean prehistory and the development of complex societies from pre-Chavin through Inca as reflected in art, architecture, and other material culture. Prerequisites: Anth 100 or Anth 102 or AH 100 or AH 110 or AH 111 and sophomore standing or above; or consent of the instructor.
- 270 African Art. 3 Hours.** Same as African-American Studies 270. Survey of the arts of the major tribal cultures of sub-Saharan Africa. Prerequisite: 3 hours of art history at the 100-level or consent of the instructor.
- 271 Native American Art. 3 Hours.** Survey of the arts of the indigenous peoples of the United States and Canada. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 272 Pre-Columbian Art and Architecture. 3 Hours.** Same as Latin American and Latino Studies 238. Survey of the art and architecture of the indigenous peoples of Mexico, Central, and South America from 2000 B.C. to the Spanish Conquest in the 1500's. Includes Maya, Aztec, and Inca cultures. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 273 Pre-Columbian Art of South America. 3 Hours.** Same as Latin American and Latino Studies 239. The art and architecture of the Andean, southern Central American, and Caribbean cultures from 3000 B.C. to the sixteenth century, from pre-Chavin thorough Inca. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 274 Pre-Columbian Art of Mesoamerica. 3 Hours.** Same as Latin American and Latino Studies 240. The art and architecture of prehispanic peoples of Mexico and northern Central America, including Olmec, Teotihuacan, Maya, Zapotec, and Aztec cultures. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 275 South Asian Visual Cultures. 3 Hours.** Art and architectural traditions of South Asia, contextualizing their uses and meaning within Hindu, Buddhist, Islamic, and contemporary communities of India, Pakistan, and Bangladesh.
- 320 Asian Architecture. 3 Hours.** Same as Asian Studies 320. Survey of the architecture of India, Southeast Asia and East Asia, with an emphasis on Japan.



- 322 Contemporary Architecture. 3 Hours.** Worldwide trends in recent architecture, urbanism, architectural theory, and criticism.
- 370 Chinese Art. 3 Hours.** Same as Asian Studies 370. Survey of Chinese architecture, sculpture, painting, and related arts from Neolithic times to the eighteenth century.
- 371 Japanese Art. 3 Hours.** Same as Asian Studies 371. Survey of Japanese architecture, sculpture, painting, woodblock prints, and related arts from Neolithic times to the nineteenth century.
- 404 Topics in Architecture, Art and Design. 3 Hours.** May be repeated for a maximum of 9 hours of credit when topics vary. Students may register for more than one section per term. Selected topics in the history of European and North American architecture, art, and design. Prerequisite: 3 hours of art history at the 200 level or consent of the instructor.
- 422 Topics in the Literature of Architecture. 3 Hours.** May be repeated for credit when topics vary. Discussion of selected readings in the theory and criticism of architecture. Prerequisite: 3 hours in the history of architecture or consent of the instructor.
- 424 Topics in Architecture and Urban Form in Chicago. 2 to 4 Hours.** 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.
- 430 Contemporary Photography. 3 Hours.** May be repeated when topics vary. Developments in the history of photography since 1950. Prerequisite: 3 hours in the history of photography or consent of the instructor.
- 432 Topics in Film and Video. 3 Hours.** May be repeated for credit when topics vary. Selected studies in genres, schools, individual artists, critics, and theorists of film and video. Prerequisite: 3 hours in the history of film or consent of the instructor.
- 434 Women and Film. 3 Hours.** Same as English 472 and Gender and Women's Studies 472. Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. Prerequisite: Engl 102, or 232 or 233; or consent of the instructor.
- 435 Topics in Modern and Contemporary Design. 3 Hours.** May be repeated for credit when topics vary. Topics in modern and contemporary design. Prerequisite: 3 hours in the history of design or consent of the instructor.
- 441 Topics in Medieval Art and Architecture. 3 Hours.** May be repeated for credit when topics vary. Selected topics in European art and architecture of the Middle Ages. Prerequisite: 3 hours of medieval art and architecture or consent of the instructor.
- 450 Topics in Renaissance Art. 3 Hours.** Selected topics in Early Renaissance, High Renaissance, or Mannerist Art and Architecture. Prerequisite: Three hours in art history at the 200-level or above, or consent of the instructor.
- 460 Topics in Modern and Contemporary Art. 3 Hours.** May be repeated for credit when topics vary. Selected topics in nineteenth- and twentieth-century modern and contemporary art. Prerequisite: 3 hours of modern art and architecture or consent of the instructor.

- 463 Topics in North American Art and Architecture. 3 Hours.** May be repeated for credit when topics vary. Selected topics in North American art and architecture from colonial times to 1945. Prerequisite: 3 hours of North American art and architecture or consent of the instructor.
- 464 Topics on Art in Chicago. 2 to 4 Hours.** Topics on the survey of art in Chicago, from the nineteenth century to the present, with an emphasis on contemporary Chicago art expressions.
- 465 Arts of the Black Atlantic. 3 Hours.** Interdisciplinary and discursive explorations of the visual and artistic expressions of artists of African descent in the New World.
- 470 Topics in Non-Western Art and Architecture. 3 Hours.** May be repeated for credit when topics vary. Selected topics in the art and architecture of Africa, Asia, Oceania, and the indigenous peoples of the Americas.
- 471 Topics in Asian Art and Architecture. 3 Hours.** Same as Asian Studies 471. May be repeated for credit when topics vary. Selected topics in the art and architecture of Asia. Prerequisite: 3 hours of Asian art and/or architecture or consent of the instructor.
- 480 History of Collecting and Museology. 3 Hours.** The history of collecting and patronage: public and private collections museums, and commercial art galleries, government funding, and the arts. Prerequisites: AH 110 and 111 or consent of the instructor.
- 481 Museum Practices. 3 Hours.** Exhibition planning, research, selection, and catalog preparation. Administration of visual arts organizations, their budgets, staffing, and structures. Prerequisite: AH 480 or consent of the instructor.
- 482 Museology Internship. 6 Hours.** Practical supervised experience in institutions serving the visual arts. Placements in museums, community art centers, college, commercial, or nontraditional galleries, and public agencies. Prerequisite: AH 481 or consent of the instructor.
- 485 Introduction to Historic Preservation. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Preservation planning, historic building restoration, and the political and economic factors affecting the conservation of historic resources. Prerequisite: 3 hours of art history at the 200 level or consent of the instructor.
- 490 Honors Thesis. 3 Hours.** Satisfactory/Unsatisfactory grade only. Individual study on a project selected with approval of the adviser. Prerequisite: Open only to seniors.
- 491 Study Abroad in Art History. 0 to 12 Hours.** May be repeated for credit with the approval of the Department. Study abroad within an approved foreign exchange program or department- sponsored program. Prerequisite: Approval of the Department.
- 492 Readings in Art and Architecture History. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Individually planned readings on selected topics under the supervision of a faculty member. Prerequisites: Junior standing, 3 hours of art history above the 100 level and consent of the instructor.

## Dance (Dnce)

- 264 Instructional Techniques in Dance. 2 Hours.** Same as Kinesiology 264. Introduction to dance education with emphasis on developing teaching methods and skills for the classroom.

## Music (Mus)

- 100 Introduction to Music I. 3 Hours.** May not be taken for credit by music majors or minors. Listening, understanding, and enjoying music.
- 101 Music Theory I. 3 Hours.** Notation of rhythm and pitch; scales, intervals, triads, and seventh chords; principles of voice leading and harmonic progression. Prerequisites: Concurrent registration in Mus 103 and 170.
- 102 Music Theory II. 3 Hours.** Non-chord tones; cadences, phrases, and periods; introduction to Schenkerian analysis; inversions of triads and seventh chords. Prerequisites: Mus 101 and concurrent registration in Mus 104 and 171.
- 103 Ear Training I. 1 Hour.** The development of aural perception and sight-singing ability; material is correlated with Music 101. Prerequisites: Concurrent registration in Mus 101 and 170.
- 104 Ear Training II. 1 Hour.** The development of aural perception and sight-singing ability; material is correlated with Music 102. Prerequisites: Concurrent registration in Mus 102 and 171.
- 107 Fundamentals of Music Theory. 3 Hours.** For the general student. Notation, metrical organization and rhythmic structure, scales and key signatures, intervals, triads, ear training, and sight singing.
- 110 Convocation/Recital. 0 Hours.** Satisfactory/unsatisfactory grade only. A weekly convocation presenting concerts by faculty, visiting artists, or students.
- 114 Jazz. 3 Hours.** A nontechnical survey of the history and development of jazz from its West African roots to contemporary styles.
- 115 Opera. 3 Hours.** Historical survey tracing the growth and development of opera from its beginnings to the present.
- 117 Music for Symphony Orchestra. 3 Hours.** Music for symphony orchestra from Haydn to Bartok: symphony, overture, and tone poem.
- 119 Music for the Piano. 3 Hours.** A survey of three centuries of keyboard music, from the Baroque to the present.
- 151 Concert Band. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Introduction to varied band and wind ensemble literature. Regular band and wind ensemble literature. Regular performances during the school year; occasional field trips. Prerequisite: Audition and/or consent of the instructor.
- 152 Instrumental Ensembles. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Performance of chamber ensemble literature of varied types. Occasional concerts on and off campus. Prerequisite: Audition and/or consent of the instructor.
- 153 University Choir. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Student performance of choral literature of all musical periods. Occasional concerts off-campus. Prerequisite: Audition required.

- 154 Chamber Choir. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Study/performance of choral literature for 16 to 24 voices. Occasional concerts off-campus. Prerequisite: Audition required.
- 155 Women's Choral Ensemble. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Study/performance of choral literature of all musical periods. Occasional concerts off-campus. Prerequisites: Basic music-reading skills and audition required.
- 156 Pep Band. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Performs at home basketball and hockey games. Prerequisites: Concurrent registration in Mus 151 and consent of the instructor.
- 159 Jazz Ensemble. 1 Hour.** May be repeated for a maximum of 8 hours of credit. Practical experience in the preparation and public performance of big band and small ensemble jazz. Field trips may be required. Prerequisite: Consent of the instructor.
- 170 Keyboard Skills I. 2 Hours.** Development of basic keyboard skills including sight reading, transposition, improvisation, and ensemble playing. Prerequisites: Concurrent registration in Mus 101 and 103; or approval of the department.
- 171 Keyboard Skills II. 2 Hours.** Continues Music 170. Prerequisites: Mus 170 and concurrent registration in Mus 102 and 104.
- 180 Private Instrumental Lessons. 2 Hours.** May be repeated for a maximum of 16 hours of credit. Applied music instruction in woodwinds, brass, percussion, piano, guitar or organ. Prerequisites: Audition prior to initial registration and approval of the department.
- 182 Private Voice Lessons. 2 Hours.** May be repeated for a maximum of 16 hours of credit. Applied music instruction in voice. Prerequisites: Approval of the department and admission to the music major and successful completion of an audition. Previous music and vocal study recommended.
- 190 Class Voice. 1 Hour.** May be repeated for a maximum of 8 hours of credit; may not be taken concurrently with private voice lessons (Music 180). Group instruction in singing. Prerequisites: Consent of the instructor and concurrent registration in Mus 153 or 155.
- 201 Theory of Music III. 3 Hours.** Continues Music 102. Chromatic harmony of the eighteenth and nineteenth centuries. Study of two- and three-part forms. Prerequisites: Grade of C or better in Mus 102 and 104 or the equivalents.
- 202 Theory of Music IV. 3 Hours.** Continues Music 201. Harmony in the late nineteenth century; introduction to twentieth-century practices. Prerequisites: Mus 201 and 203 or the equivalents.
- 203 Ear Training III. 1 Hour.** Aural perception and sight singing. Prerequisites: Mus 104 or the equivalent and concurrent registration in Mus 201.
- 204 Ear Training IV. 1 Hour.** Advanced aural perception and sight singing. Prerequisites: Mus 203 and concurrent registration in Mus 202.
- 227 Music Cultures of the World. 3 Hours.** Examination of music throughout the world from an ethnomusicological perspective. Emphasis on classical, tribal, and folk musics; music as a cultural phenomenon.
- 230 Music History I. 3 Hours.** Principal styles and composers from the Middle Ages through the Renaissance. Prerequisites: Mus 102 and 104.
- 231 Music History II. 3 Hours.** Principal styles and composers from the baroque period through the classical period. Prerequisite: Mus 230.
- 232 Music History III. 3 Hours.** 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. Prerequisites: Mus 202, 204 and 231.
- 270 Keyboard Skills III. 2 Hours.** Continues Music 171. Prerequisites: Mus 171 and concurrent registration in Mus 201 and 203 or approval of the department.
- 271 Keyboard Skills IV. 2 Hours.** Advanced keyboard skills, including keyboard harmony, improvisation, accompanying, and score reading. Prerequisites: Mus 270 and concurrent registration in Mus 202 and 204 or approval of the department.
- 280 Advanced Private Instrumental Lessons. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Private instruction at an advanced level in woodwinds, brass, percussion, or piano, culminating in a jury exam. Prerequisites: Four semesters of Mus 180 and approval of the Department.
- 282 Advanced Private Voice Lessons. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Advanced applied music instruction in voice. Prerequisites: Approval of the department and admission to the music major and successful completion of four terms of Mus 182. Performance experience beyond regular UIC studies recommended.
- 298 Selected Topics in Music. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Study in specialized areas of music history, music theory, jazz, and ethnomusicology. Prerequisite: Consent of the instructor.
- 299 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 16 hours of credit. Projects and topics for individual investigation. Course number may be used for student-initiated courses. Prerequisites: Mus 202 and 204 and approval of the department.
- 300 Counterpoint. 3 Hours.** Written exercises and study of contrapuntal techniques in a variety of styles. Prerequisites: Mus 202 and 204; or approval of the department.
- 301 Analytic Techniques. 3 Hours.** Analysis of representative works in a variety of genres from the seventeenth through the twentieth centuries. Prerequisite: Mus 300.
- 302 Composition I. 3 Hours.** Class and individual instruction in the basic techniques of twentieth-century composition. Practice in the use of twentieth-century musical materials. Prerequisites: Mus 202 and 204, and consent of the instructor.
- 303 Composition II. 3 Hours.** Continues instruction in the techniques and materials of twentieth-century composition. Prerequisite: Mus 302.
- 304 Conducting. 3 Hours.** 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. Prerequisites: Mus 202 and 204.
- 306 Orchestration and Arranging I. 3 Hours.** The acoustical properties, musical characteristics, and scoring problems of string, woodwind, and brass instruments. Scoring for string, woodwind, and brass ensembles. Prerequisites: Mus 202 and 204.
- 307 Orchestration and Arranging II. 3 Hours.** 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: Mus 306.
- 320 Music Proseminar. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Selected topics for intensive study in specialized areas of music history or music theory. Prerequisites: Senior standing with major in music and consent of the instructor.
- 391 Study Abroad in Music. 0 to 16 Hours.** May be repeated for credit with the approval of the department. Study abroad within an approved foreign exchange program or department-sponsored program. Prerequisite: Approval of the department.

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## Theatre (Thtr)

- 109 Introduction to Theatre. 3 Hours.** Understanding the theatre experience through production examples and the critical examination of the contributions of playwright, actor, director, designer, and audience. Play attendance required.
- 140 Polish Drama in Translation. 3 Hours.** Same as Polish 140. Elementary aspects of Polish dramatic theory and close reading of representative scripts selected from various periods. Taught in English.
- 150 Technical Theatre. 3 Hours.** Basic techniques of play production. Survey of methods and materials of set construction, painting, stage lighting, backstage organization. Practical work with University Theatre.
- 151 Fundamentals in Costume Construction. 3 Hours.** Fundamentals of costume construction from conception to realization, through the use of sewing machines, pattern making, and historical research with practical projects.
- 161 Fundamentals of Acting. 3 Hours.** Basic vocal and physical stage performance techniques including the role of character in relation to the intellectual and emotional landscape of a play.
- 209 Modern Theatre. 3 Hours.** Theatre theories and techniques developed between 1870 and the present, notably those of Ibsen, Appia, Stanislavsky, Meyerhold, Brecht, Artaud, and Grotowski. Prerequisite: Thtr 109.
- 210 Movement for Stage I. 3 Hours.** Techniques in the physicalization of performance. Focus on the body in space as both primary and integrated theatrical communication. Prerequisite: Credit or concurrent enrollment in Thtr 161.
- 245 East Asian Theatre. 3 Hours.** 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.

**250 Principles of Design. 3 Hours.**

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: Grade of B or better in Thtr 150.

**255 Scene Design. 3 Hours.**

Basic interpretive and practical techniques in creating 3-dimensional performance environments including conceptualization, drafting, rendering and model building. Prerequisite: Grade of B or better in Thtr 150.

**256 Lighting Design. 3 Hours.**

Basic interpretive and practical techniques in creating and enhancing 3-dimensional performance environments through lighting. Prerequisite: Grade of B or better in Thtr 150.

**257 Costume Design I. 3 Hours.**

Basic interpretive and practical techniques in designing stage costumes including conceptualization, rendering and construction techniques. Prerequisite: Grade of B or better in Thtr 151.

**258 Costume Design II. 3 Hours.**

Practical research and rendering techniques in designing stage costumes for use in theatrical productions. Prerequisite: Grade of B or better in Thtr 257.

**259 Makeup Design. 3 Hours.**

Principles of designing and applying makeup for stage performances including prosthetics and wigs. Prerequisite: Grade of B or better in Thtr 150 and 151.

**260 The Actor's Voice. 3 Hours.**

Fundamentals of vocal production, their physical and emotional characteristics and their relationship to body, space, action and emotion. Prerequisite: Grade of B or better in Thtr 161.

**261 Advanced Voice for the Actor. 3 Hours.**

The relationship between speech, sound and dramatic sense. Advanced techniques for the development of voice in conjunction with dramatic texts. Prerequisite: Grade of B or better in Thtr 260.

**262 Acting II: Contemporary. 3 Hours.**

Techniques of interpreting text, character, and dramatic action. Includes attention to alternative dramatic forms and modes of performance. Prerequisite: Grade of B or better in Thtr 161.

**280 Practicum in Performance. 3 Hours.**

May be repeated for a maximum of 18 hours of credit. Students may register for more than one section per term. Rehearsal and performance techniques, including script analysis, characterization, voice, movement, directing, or design. Prerequisites: Approval of the department and completion of a successful audition.

**281 Practicum in Theatre**

**Administration. 1 to 6 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Planning and execution of specific projects in administration and box office; publicity, budget, marketing, house management, and scheduling. Prerequisite: Consent of the instructor.

**282 Practicum in Costuming. 1 to 6**

**Hours.** May be repeated for a maximum of 15 hours of credit. Students may register for more than one section per term. Practical experience in all aspects of construction and maintenance, including millinery, mask making, wig making, pattern drafting, makeup application. Prerequisite: Consent of the instructor.

**283 Practicum in Technical Theatre. 1**

**to 6 Hours.** May be repeated for a maximum of 15 hours of credit. Students may register for more than one section per term. Practical experience in various technical areas: scenery construction, set painting, stage lighting, sound, properties construction. Prerequisite: Consent of the instructor.

**284 Seminar on Play in Production. 3**

**Hours.** May be repeated for a maximum of 6 hours credit. Research and development for play production using the current University production as an example. Special topics. Prerequisite: Consent of the instructor.

**299 Individual Topics. 1 to 3 Hours.**

May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Individual investigation of special problems. Prerequisites: Junior standing, a 3.50 grade point average, and consent of the instructor.

**310 Movement for Stage II. 3 Hours.**

Advanced techniques in the physicalization of performance and the correlation of body text as communicators of dramatic action. Prerequisites: Grade of B or better in Thtr 210 and junior standing or above.

**362 Acting: Ensemble Project. 3 Hours.**

May be repeated for a maximum of 6 hours of credit. Process and scoring of character development in a full-length 20th century play. Prerequisites: Grade of B or better in Thtr 210, 260 and 262; and sophomore standing or above.

**410 Movement for Stage III. 3 Hours.**

Specialized topics in movement-based performance skills, such as stage combat, circus techniques, and mask work. Prerequisites: Grade of B or better in Thtr 310 and advanced physical performance experience; or graduate standing in Theatre.

**423 Playwriting. 3 Hours.**

Same as English 495. The development of scripts for stage performance. Prerequisite: Junior standing or above; and approval of the department and submission and approval of a playwriting sample or dialog-centered fiction prior to registration.

**444 Drama in Its Cultural Context I. 3**

**Hours.** Drama in its social and cultural context, through the seventeenth century.

**445 Drama in Its Cultural Context II. 3**

**Hours.** Drama in its social and cultural context, eighteenth to twentieth centuries.

**452 Acting: Greeks and Shakespeare. 3**

**Hours.** Techniques of performing Greek and Shakespearean drama. Prerequisite: Grade of B or better in Thtr 261 and 262 or graduate standing in Theatre.

**458 Performing the Classics II. 3 Hours.**

May be repeated for a maximum of 6 hours of credit. Techniques of performing Restoration through nineteenth-century styles of drama. Topics vary. Prerequisite: Grade of B or better in Thtr 262.

**462 Voice for Stage. 3 Hours.**

Advanced techniques in the integration of voice, speech, dialects, and other text-related vocal performance skills. Prerequisite: Grade of B or better in Thtr 261 or graduate standing in Theatre.

**464 Special Projects in Theatrical**

**Design. 3 Hours.** May be repeated for a maximum of 9 hours credit. Twentieth-century styles: design for the contemporary stage. Problems in conceptualization, realization, and execution. Prerequisites: Thtr 250 or Thtr 256; or Thtr 257 and Thtr 259; or graduate standing in Theatre.

**465 Stage Direction. 3 Hours.**

Exploration of conceptual planning and implementation skills for the stage director ranging from script interpretation to rehearsal and performance. Performance projects required. Prerequisites: Thtr 210, 250, 262; and Thtr 256 or 257; or graduate standing in Theatre.

**466 Special Projects in Performance**

**Training. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Training in varying advanced techniques of performance. Prerequisite: Thtr 262; or for graduate students, consent of the instructor.

**470 Contemporary Performance**

**Techniques. 3 Hours.** May be repeated for a maximum of 6 hours of credit. The relationship of contemporary theory and performance techniques with attention to both text and non-text based forms. Topics vary. Performance projects required. Prerequisite: Grade of B or better in Thtr 262 or graduate standing in theatre.

**472 Investigative Collaboration. 3**

**Hours.** May be repeated for a maximum of 6 hours of credit. Collaboration as the primary means of theatrical creation. Production teams assigned to joint production projects. Topics vary. Prerequisite: Grade of B or better in Thtr 262 or graduate standing in theatre.

**474 Internship. 3 to 8 Hours.**

May be repeated for credit. Only 3 hours may be counted toward theatre major requirements. Students work in an approved professional setting. Individual projects developed through conferences with a faculty member and a field supervisor. Prerequisites: 12 hours of upper-division courses in theatre, with a 4.00 grade point average in those courses; recommendation of two faculty members and approval of department obtained in semester prior to internship.

**475 Audition Technique. 3 Hours.**

Selection and staging of audition pieces from both classical and modern drama. Prerequisites: Grade of B or better in Thtr 210, 261 and 452; or graduate standing in theatre.

**491 Study Abroad in Theatre. 0 to 16**

**Hours.** May be repeated for credit with the approval of the department. Study abroad within an approved foreign exchange program or department-sponsored program. Prerequisite: Approval of the department.

**498 Independent Study. 1 to 4 Hours.**

May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. 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. Prerequisites: Senior or graduate standing and approval of the department.



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# College of Business Administration

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## 1118 University Hall

**Dean:** Wim Wiewel.

**(312) 996-2700**

**Senior Associate Dean for Academic Affairs and Research:** John F. McDonald.

**Assistant Dean, Student Services:** Robin Brierton.

**Director, Academic Services:** Donna Nowacki.

**Director, Business Career Center:** John Anderson.

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The College of Business Administration at UIC is a market leader in undergraduate business and management education among Chicago universities. Over 2,500 undergraduate students annually pursue majors in six areas: accounting, economics, finance, information and decision sciences, management, and marketing. The college's graduates go on to pursue management and leadership careers in business and non-business settings. Many of the graduates choose to become entrepreneurs who start and own their own businesses. The Institute for Entrepreneurial Studies is nationally ranked as a premier provider of educational services for the entrepreneur. In addition, 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 the breadth and depth of the faculty and the diversity of the students. The research interests of the faculty and the quality of their scholarly work is evidenced by publications in the leading journals in their fields. In addition, the college has established excellence in teaching as a primary objective. Students will be joined by a group of peers whose diversity of backgrounds significantly enhances the learning experience and exchange of ideas.

In addition to course work in the major area, the curriculum includes core courses in all functional areas of business, and supporting course work in mathematics, communications, statistics, and information systems. The undergraduate program prepares students for a career in business and management, but it is also an excellent preparation for graduate training in business, law, or any of the business-related disciplines.

The College of Business Administration strives to be the best provider of high quality, affordable business education in the Chicago area, and one of the top ten comprehensive urban public business schools in the country. The CBA provides leadership in the creation and transmission of knowledge as one of the largest and best undergraduate business programs in the Chicago area, offering an affordable education to a diverse student body; through high quality graduate programs creating the business leaders and scholars of tomorrow; through rigorous and innovative theoretical and applied research; by linkages with Chicago's business and financial community, through active professional development programs, and an array of research and outreach centers; and by actively pursuing new opportunities to respond to market needs.

The College of Business Administration offers a bachelor of science degree in each of six areas: *Accounting*, *Economics*, *Finance*, *Information and Decision Sciences*, *Management*, and *Marketing*. Completion of the degree requires a minimum of 120 semester hours.

The college also offers a Concentration in *International Business*, available to all undergraduate business majors.

The CBA website is located at [www.ugrad.cba.uic.edu/uindex.html](http://www.ugrad.cba.uic.edu/uindex.html)

## Accreditation

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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.

## Special Programs and Opportunities

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### Student Services

- Individual academic advising is available and encouraged each term for all CBA students;
- The college provides professional career and academic guidance throughout a student's years at UIC;
- ON-LINE, the CBA newsletter, is published monthly to inform students about policies, events, scholarships, and other CBA-related news;
- A Tutoring Program is available to business students in the areas of accounting, economics, finance, math, and statistics;
- Student organizations in each of the business majors provide opportunities for students to interact with faculty, alumni and corporate professionals.

### Career Services

Career planning is a discovery process. The CBA Business Career Center encourages students to participate in many activities that are designed to inform them of career options.

- Internship Preparation Seminars improve students' understanding of their skills, values and interests.
- Resumé 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, non-profit, 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 organized job fairs.

### Academic Options

- A dual major may be earned by fulfilling the degree requirements in two CBA departments, as well as those for the University and college. The extra credits required for such a degree depend upon the departments involved. The designation of the dual major does not appear on the diploma but is noted on the student's official record.

- A *Concentration in International Business* is offered through the college. The concentration 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 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. Although not a major, this is an excellent opportunity for students to choose their major electives with an academic objective.

## Honor Code

As an academic community, the College of Business Administration at the University of Illinois at Chicago (UIC) 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 during their entire matriculation 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 Procedure, and all allegations of Honor Code violations shall be handled pursuant to that Procedure.

## Admission Requirements

The following guidelines list the minimum requirements to be considered for admission to the College of Business Administration. The College reserves the right to adjust admission criteria based on the space available in the college.

### Beginning Freshman Requirements

Beginning freshmen are defined as students who have earned less than 36 semester hours (54 quarter hours) of credit at another collegiate institution. Students must meet the requirements specified for beginning freshmen in the current literature published by the UIC Office of Admissions. It is recommended that students complete four years of high school mathematics and two years of a foreign language (with minimum grades of C). High school ranking and ACT composite scores are used to determine UIC admissions eligibility. Typically a student in the top 20 percent of their high school class with an ACT composite

score in the 20s will be considered for admission to the College of Business Administration.

### Transfer Requirements

Transfer students must earn a minimum of 36 semester hours and have a cumulative grade point average of 4.00 (5.00 scale) or a 3.00 (4.00 scale) at the time of application. It is recommended that applicants successfully complete a college-level calculus course with a minimum grade of "C." Those applicants who have earned less than 36 hours of college credit must also meet the freshman admission guidelines.

### Intercollege Transfer to the College of Business Administration

UIC students from other colleges may apply for transfer to the College of Business Administration. Admission is based on space availability. 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 3.75 and a cumulative grade point average (UIC and transfer) of 3.75 in 36 or more semester hours of course work to have their records reviewed by the college.
- Students on academic probation or drop status will not be considered for admission.
- Students with the necessary grade point averages must also have completed Math 160 and Math 165 with minimum grades of "C."

Admission is based on space availability.

The College of Business Administration holds information sessions for students who wish to transfer into the college. Information on application deadlines and procedures is available in 1118 University Hall.

### Placement Tests

The Pre-enrollment Evaluation Program (PEP) consists of a series of diagnostic tests administered to admitted UIC students prior to their enrollment in courses. The goal of PEP is to increase the retention of new UIC students by evaluating their abilities and providing course placements which most closely match their skills. The tests include (1) mathematics and (2) English Languages Skills Assessment - ELSA (including college composition skills, college textbook reading, college study skills and college vocabulary).

All beginning freshmen are required to take the mathematics and English language skills exams prior to enrollment in courses. New UIC transfer students and readmitted UIC students are required to take the mathematics exam if they do not have credit in calculus with a minimum grade of "C." The English exam must be taken if credit equivalent to UIC's English 160 has not been earned.

## Academic Advising

The CBA Student Services Office provides academic advising regarding course selection and registration; transfer credit; academic probation; and progress made toward the degree. It will be the student's responsibility to make certain that the student is fulfilling the degree requirements. Therefore, the college strongly recommends that all continuing students meet with an adviser for a credit evaluation each semester.

## Required Advising

Students will need to see an adviser for any of the situations listed below:

- Each semester, 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;
- Students on academic probation must meet with an adviser at least once each semester until the probationary status has been cleared;
- All graduating seniors are required to meet with an adviser for a graduation check appointment no later than the semester in which they plan to graduate. It is highly recommended that students complete a graduation check the semester before they plan to graduate.

Individual academic advising is by appointment. General questions can be answered by phone. Use of email is encouraged to contact advisers with quick questions. If students are faced with an emergency situation, they should contact the Director of Academic Services.

## Graduation Requirements

*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

Students will be required to complete a minimum of 120 semester hours for the Bachelor of Science degree offered by the College of Business Administration. These hours must be distributed as indicated below.

### General Requirements (60 hours)

#### Basic Education Requirements

	Hours
<b>Business Administration Orientation</b>	
BA 100 — Business Administration Orientation	0
<i>Required of new freshmen only. BA 100 carries one equivalent hour; does not carry credit towards graduation.</i>	
<b>English</b>	
Engl 160 — English Composition I	3
Engl 161 — English Composition II	3
BA 200 — Managerial Communication	3
<b>Mathematics</b>	
Math 160 — Finite Mathematics for Business	5
Math 165 — Calculus for Business	5
<i>Math 180 may be taken in place of Math 165.</i>	
<b>Economics</b>	
Econ 130 — Principles of Economics for Business	5
Econ 218 — Microeconomics: Theory and Business Applications	4
<b>Total Hours</b>	<b>28</b>

#### Other General Requirements

	Hours
Social Sciences	6
Modern History and Philosophy	6
Literature	3
Advanced Quantitative Skills	3
Natural Sciences	5
<b>Total Hours</b> to be chosen from the CBA Course Selection Chart	<b>23</b>

## Hours

### Nonbusiness Electives

9 hours of electives outside the College of Business

Administration must raise the general requirements hours to a total of at least 60.

9

**Total Hours - General Requirements**

**60**

### Business Courses (60-61 Hours)

#### Business Core

	Hours
<b>Accounting</b>	
Actg 110 — Introduction to Financial Accounting	3
Actg 111 — Introduction to Managerial Accounting	3
<b>Finance</b>	
Fin 300 — Introduction to Managerial Finance	3
<b>Information and Decision Sciences</b>	
IDS 100 — Management Information Systems I	4
IDS 270 — Business Statistics I	4
IDS 355 — Operations Management I	3
<b>Management</b>	
Mgmt 340 — Introduction to Organizations	3
Mgmt 350 — Business and Its External Environment	3
<b>Marketing</b>	
Mktg 360 — Introduction to Marketing	3
<b>Integrative Course - Competitive Strategy</b>	
All students must also take a 4-hour integrative course. This requirement may be satisfied by taking one of the following courses: Actg 495, Econ 495, Fin 495, IDS 495, or Mgmt 495. Note that all of these courses have the same prerequisites (senior standing and completion of all the other CBA core courses). Students may take the integrative course in any department, not necessarily in their major.	
<b>Total Hours</b>	<b>33</b>

## Hours

### The Major and Business Electives

Students choose a major from the following areas: *Accounting*, *Economics*, *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 - Business Courses**

**60 - 61**

### Curriculum Notes and Other Graduation Requirements

#### Business Administration Orientation

All entering freshmen students in the college are required to complete BA 100 (Business Administration Orientation) during their first semester.

#### Cultural Diversity Requirement

All students at UIC are expected to study a culture different from the dominant American culture. To fulfill this requirement, students must choose at least one course from UIC's *Cultural Diversity List*. A complete list of the courses that fulfill this requirement can be found in the Liberal Arts and Sciences section of the *UIC Undergraduate Catalog*. Refer to the CBA Course Distribution List for cultural diversity courses that fulfill CBA General Education requirements.



## Basic Education

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.

## English

A minimum grade of “C” in English 160 and 161 is a graduation requirement. Transfer students who have taken the equivalent of English 160 and/or 161 at other institutions may only receive transfer credit for these courses if they earned minimum grades of “C.”

## Mathematics

Business students must register for a mathematics course each semester until the required courses are completed. After completing the required mathematics sequence, 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). The credit earned is included in the total hours earned, which determines class standing. Students required to take the prerequisite math courses may place anywhere in this sequence: Math 070, 090, 160, and 165. Grades of “C” or better are required to progress in this sequence. Please note that Math 160 is not a prerequisite for Math 165. Students placed in Math 160 may register for Math 165.

Student 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 towards the required Math 165 course. Other useful courses are Math 210 and Math 310. 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.

## Other General Requirements

Courses for the social sciences, modern history and philosophy, literature, advanced quantitative skills, and natural sciences requirements must be chosen from the list of courses included in the *Course Selection Chart for College of Business Administration Students*. This chart may be found in this chapter, following the list of graduation requirements.

## Foreign Language

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 with a deficiency in this area must take, after admission to UIC, two semesters of a single foreign language at the college level, with minimum grades of “C.”

## Nonbusiness Electives

Nonbusiness electives must be taken outside the College of Business Administration. Dance, health, kinesiology, military science, and music skills courses will not apply to this category.

## Course Level Requirement

At least 9 of the 32 hours in *Other General Requirements and Nonbusiness Electives* must be taken at the 200 level or above.

## Courses that Do Not Count Toward the Bachelor of Science Degree

Courses that duplicate previous course work do not count toward graduation, nor does course work in which failing grades

were received. Furthermore, credit earned in the following courses will not count toward graduation: Business Administration 100; English as a Second Language courses; English 150 and 152; Mathematics 070, 090, 118, 121, 140, and 141; kinesiology, dance, 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 English Department. ESL courses, Math 070, 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.

## Course Selection Chart for College of Business Administration Students

Business Administration students must complete course work in social sciences, modern history and philosophy, literature, advanced quantitative skills, and natural sciences. The options for satisfying these requirements are indicated below. *Some of these courses have prerequisites*, and students should make sure that they have satisfied them before enrolling. It is also important to note that many 200-level courses have no prerequisites.

Sections of Hon 107 (Interdisciplinary Honors Core in the Humanities) and Hon 108 (Interdisciplinary Honors Core in the Social Sciences) that are approved by the College of Business Administration may be used by Honors College students toward their general education requirements (in the areas of social sciences, modern history and philosophy, and literature). To determine the applicability of such credit, students should check with CBA Student Services.

### Social Sciences

Six hours to be chosen from the following list.

#### Anthropology (Anth)

100 —The Human Adventure	3
101 —World Cultures: Introduction to Social Anthropology	3
102 —Introduction to Archaeology	3
110 —Cybernetic Systems	3
214 —Sex and Gender in World Cultures	3

*Same as GWS 214*

#### Gender and Women's Studies (GWS)

214 —Sex and Gender in World Cultures	3
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*Same as Anth 214*

224 —Gender and Society	3
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*Same as Soc 224*

#### Latin American and Latino Studies (LALS)

130 —Introduction to Comparative Politics	3
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*Same as PolS 130*

225 —Racial and Ethnic Groups	3
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*Same as Soc 225*

#### Political Science (PolS)

101 —Introduction to American Government and Politics	3
103 —Who Rules? Introduction to the Study of Politics	3
120 —Introduction to Political Theory	3
130 —Introduction to Comparative Politics	3

*Same as LALS 130*

184 —Introduction to International Relations	3
190 —The Scope of Political Science	3



## Psychology (Psch)

100 —Introduction to Psychology	4
210 —Theories of Personality	3
231 —Community Psychology	3

## Sociology (Soc)

100 —Introduction to Sociology	3
104 —Honors Introduction to Sociology	3
105 —Social Problems	3
110 —Introduction to Social Psychology	3
216 —Social Movements	3
223 —Youth and Society	3
224 —Gender and Society	3
<i>Same as GWS 224</i>	
225 —Racial and Ethnic Groups	3
<i>Same as LALS 225</i>	
241 —Social Inequalities	3
244 —Work in a Changing Society	3
245 —Marriage and Family	3
246 —Sociology of Religion	3
251 —Health and Society	3
265 —Sociology of Politics	3
268 —Introduction to Comparative Sociology	3
276 —Urban Sociology	3

## Modern History and Philosophy

Six hours to be chosen from the following list; at least one must be from List A.

### List A.

#### African-American Studies (AASt)

141 —African Civilization	3
<i>Same as Hist 141</i>	
242 —Modern Africa	3
<i>Same as Hist 242</i>	

#### History (Hist)

101 —Western Civilization Since 1648	3
109 —East Asian Civilization: China	3
<i>Same as AsSt 109</i>	
110 —East Asian Civilization: Japan	3
<i>Same as AsSt 110</i>	
114 —World History	3
117 —Understanding the Holocaust	3
<i>Same as JSt 117</i>	
141 —African Civilization	3
<i>Same as AASt 141</i>	
161 —Introduction to Latin American History	3
<i>Same as LALS 161</i>	
214 —Europe: 1914 to 1945	3
220 —Modern Germany since 1848	3
223 —Modern Britain since 1689	3
226 —France since 1848	3
228 —Spain since 1808	3
<i>Same as LALS 228</i>	
233 —History of East Central Europe and the Balkans	3
234 —History of Poland	3
<i>Same as Pol 234</i>	
237 —Russia since 1812	3
242 —Modern Africa	3
<i>Same as AASt 242</i>	
266 —Mexico since 1850	3
<i>Same as LALS 266</i>	
272 —China since 1911	3
<i>Same as AsSt 272</i>	
274 —Japan since 1600	3
<i>Same as AsSt 274</i>	
278 —The Middle East since 1258	3

## Jewish Studies (JSt)

117 —Understanding the Holocaust	3
<i>Same as Hist 117</i>	

## Latin American and Latino Studies (LALS)

161 —Introduction to Latin American History	3
<i>Same as Hist 161</i>	
228 —Spain since 1808	3
<i>Same as Hist 228</i>	
266 —Mexico since 1850	3
<i>Same as Hist 266</i>	

## Philosophy (Phil)

100 —Introduction to Philosophy	3
101 —Reasoning	3
103 —Introduction to Ethics	3
104 —Introduction to Social/Political Philosophy	3
105 —Science and Philosophy	3
112 —Morality and the Law	3
115 —Death	3

## Polish (Pol)

234 —History of Poland	3
<i>Same as Hist 234</i>	

### List B.

#### African-American Studies (AASt)

248 —African-American History since 1877	3
<i>Same as Hist 248</i>	

#### History (Hist)

104 —American Civilization since the Late 19th Century	3
248 —African-American History since 1877	3
<i>Same as AASt 248</i>	
262 —Latin America since 1850	3
<i>Same as LALS 262</i>	

#### 291 —American Business History

3

## Latin American and Latino Studies (LALS)

262 —Latin America since 1850	3
<i>Same as Hist 262</i>	

## Literature

Three hours to be chosen from the following list.

#### African-American Studies (AASt)

110 —Introduction to African-American Literature 1760-1910	3
<i>Same as Engl 118</i>	
111 —Introduction to African-American Literature since 1910	3
<i>Same as Engl 119</i>	
191 —African and Caribbean Francophone Literature in Translation	3
<i>Same as Fr 191</i>	

#### Classics (Cl)

102 —Introduction to Classical Literature	3
208 —Greek Mythology	3
250 —Greek and Roman Epic Poetry	3
251 —Greek Tragedy	3
252 —Greek and Roman Comedy	3
253 —Roman Satire and Rhetoric	3

#### English (Engl)

101 —Understanding Literature	3
102 —Introduction to Film Narrative	3
103 —English and American Poetry	3
104 —English and American Drama	3
105 —English and American Fiction	3
106 —English and American Prose	3
107 —Introduction to Shakespeare	3
108 —British Literature and British Culture	3
109 —American Literature and American Culture	3
110 —English and American Popular Genres	3

111 —Women and Literature <i>Same as GWS 111</i>	3	261 —South American Literature and Culture	3
112 —Introduction to Native American Literature <i>Same as NAsI 112</i>	3	<b>Theatre (Thtr)</b>	
113 —Introduction to Multi-Ethnic Literature in the United States	3	140 —Polish Drama in Translation <i>Same as Pol 140</i>	3
114 —Introduction to Colonial and Post-Colonial Literature	3	<b>Advanced Quantitative Skills</b>	
117 —Introduction to Gender, Sexuality, and Literature <i>Same as GWS 117</i>	3	At least 3 hours to 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).	
118 —Introduction to African-American Literature, 1760-1910 <i>Same as AASi 110</i>	3	<b>Economics (Econ)</b>	
119 —Introduction to African-American Literature since 1910 <i>Same as AASi 111</i>	3	346 —Econometrics	3
170 —Freshman Colloquium I	3	<b>Information and Decision Sciences (IDS)</b>	
171 —Freshman Colloquium II	3	371 —Business Statistics II	3
<b>French (Fr)</b>		<b>Mathematics (Math)</b>	
191 —African and Caribbean Francophone Literature in Translation <i>Same as AASi 191</i>	3	205 —Advanced Mathematics for Business	5
<b>Gender and Women's Studies (GWS)</b>		<b>Philosophy (Phil)</b>	
111 —Women and Literature <i>Same as Engl 111</i>	3	102 —Introductory Logic	3
117 —Introduction to Gender, Sexuality, and Literature <i>Same as Engl 117</i>	3	210 —Symbolic Logic	3
120 —Study of Gender, Class, and Political Issues in German Texts <i>Same as Ger 120</i>	3	211 —Inductive Logic and Decision Making	3
244 —Women in Russian Literature <i>Same as Russ 244</i>	3	<b>Natural Sciences</b>	
<b>Germanic Studies (Ger)</b>		At least 5 hours must be chosen from the following list.	
100 —Introduction to Germanic Cultures and Literatures	3	<b>Anthropology (Anth)</b>	
120 —Study of Gender, Class, and Political Issues in German Texts <i>Same as GWS 120</i>	3	105 —Human Evolution	5
<b>Italian (Ital)</b>		<b>Biological Sciences (BioS)</b>	
210 —Introduction to Reading and Analysis of Italian Literary Texts	3	100 —Biology of Cells and Organisms	5
<b>Native American Studies (NASi)</b>		101 —Biology of Populations and Communities	5
112 —Introduction to Native American Literature <i>Same as Engl 112</i>	3	103 —Human Development and Reproduction	5
<b>Polish (Pol)</b>		104 —Life Evolving	5
120 —The Polish Short Story in Translation	3	<b>Chemistry (Chem)</b>	
130 —Masterworks of Polish Literature in Translation	3	100 —Chemistry and Life	5
140 —Polish Drama in Translation <i>Same as Thtr 140</i>	3	112 —General College Chemistry I	5
241 —Mickiewicz and Sienkiewicz: Polish Romanticism and Realism	3	116 —Honors General Chemistry I	5
<b>Russian (Russ)</b>		<b>Earth and Environmental Sciences (EaES)</b>	
120 —The Russian Short Story in Translation	3	101 —Introduction to Earth and Environmental Systems I	5
130 —Masterpieces of Russian Literature in Translation	3	102 —Introduction to Earth and Environmental Systems II	5
241 —Dostoevsky	3	107 —The Changing Earth	5
242 —Tolstoy	3	109 —The Restless Earth	4
244 —Women in Russian Literature <i>Same as GWS 244</i>	3	<b>Mathematical Computer Science (MCS)</b>	
<b>Slavic (Slav)</b>		260 —Introduction to Computer Science	4
116 —Old Slavic and Ukrainian Folklore and Mythology	3	<b>Mathematics (Math)</b>	
219 —Serbian Folklore and Folk Mythology	3	181 —Calculus II	5
222 —Modern Serbian Literature	3	<b>Physics (Phys)</b>	
<b>Spanish (Span)</b>		105 —Introductory Physics I - Lecture <i>To be taken concurrently with Phys 106.</i>	4
190 —Contemporary Latin American Literature in Translation	3	106 —Introductory Physics I - Laboratory <i>To be taken concurrently with Phys 105.</i>	1
210 —Introduction to the Reading of Hispanic Texts	3	112 —Astronomy and the Universe	4
211 —Introduction to the Analysis of Hispanic Texts	3	121 —Natural Sciences—the Physical Universe	4
260 —Meso-American Literature and Culture	3	122 —Problem-Solving Workshop for Natural Sciences - The Physical Universe	1
		123 —Physics of the Environment	5
		141 —General Physics I (Mechanics)	4
		<b>Policies to Ensure Academic Progress</b>	
		• It is recommended that students enroll in a manageable course load of 12–13 hours per semester. However, 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 *Timetable*.
- To meet prerequisites for core and major courses, students must enroll in a math or statistics course each semester until the sequence is completed.
- English 160 and 161 should be completed by the end of the freshman year.
- Economics 130 should be completed during the semester in which a student is enrolled for Math 160 or Math 165.
- IDS 100 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 100 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

### 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 4.50 or higher. Although the grade point average is exclusive of courses taken Pass/Fail, a student who fails a course taken under this option is ineligible for the Dean's List.

### College Honors

To qualify for college honors the students must:

1. Meet the college and University requirements for graduation.
2. Earn a minimum of 60 semester hours credit at UIC.
3. Achieve a minimum cumulative grade point average of 4.50 in UIC courses.

### Department Honors

Department honors may be awarded if the student meets the grade point average criteria listed below:

Distinction:	4.25 overall	4.25 major
High Distinction:	4.50 overall	4.50 major
Highest Distinction:	4.75 overall	4.75 major

### 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.

## Scholarships, Prizes, and Recognition

Students in the College of Business Administration may be eligible for special awards and scholarships in addition to those available through the Office of Student Financial Aid. For more detailed information consult *Scholarships, Prizes, and Awards of Recognition in the Financial Aid* chapter of this catalog. Information is also available in the College of Business Administration monthly publication *On-Line*, which can be found in Room 1118 University Hall.

## Degree Programs Offered with Other Colleges

The College provides courses for degree programs offered by other UIC colleges. The College of Engineering offers a bachelor of science degree in engineering management and the College of Liberal Arts and Sciences offers a bachelor of science degree in statistics and operations research, a major in German with business minor, and a bachelor of arts degree in Spanish-Economics.

## Additional Graduation Requirements

### College Residence Requirements

The following college 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 residence requirements must also be fulfilled.
- The last 30 hours of course work must be taken in residence at UIC. Furthermore, at least 30 of the 60 semester hours in the Business Section of the curriculum must be taken in residence at UIC.
- At least two-thirds of the credit required for a departmental major must be completed at UIC.

### Declaration of Major

Students should declare their major before enrolling in major level courses offered by the College of Business Administration. The College offers six majors: *Accounting*, *Economics*, *Finance*, *Information and Decision Sciences*, *Management* and *Marketing*. Students should verify that an approved major has been declared by the time they reach junior standing.

### Declaration of Intent to Graduate

Students are required to declare their intent to graduate and schedule a graduation check appointment with an adviser within two semesters of graduation. All graduation checks must be completed no later than the last day of instruction for the term in which the student plans to graduate. It is recommended that students complete the graduation check process the term before the one in which they plan to graduate. Earlier deadlines for completion of the graduation check apply to students wishing to participate in the graduation ceremonies.

## Minimum Grade Point Average

A minimum grade point average of 3.00 must be earned in all UIC and transfer course work used towards the degree and the major.

## College Policies, Rules, and Regulations

### Academic Course Load

To complete a CBA degree within four years, a student must take an average course load of 15-16 hours per semester. Depending on the math placement test results, a student may have to take additional courses during the summer terms. Students should expect to complete two hours of homework, studying, and reading for each hour spent in the classroom. In addition, students need to consider how many hours they are working and/or commuting to campus in determining how many hours can be successfully handled each term. A *maximum* of 18 semester hours may be taken in a semester (9 hours during the summer session).

### Class Attendance

The University allows each instructor to establish attendance requirements. Each instructor is responsible for making the attendance policy clear to the students. Regular class attendance is necessary for achieving academic success. A student should not make the assumption that she or he will be automatically dropped by an instructor for non-attendance. It is the individual student's responsibility to make certain that all courses are added and dropped properly by the published deadlines.

### Course Schedule Changes

Once the semester begins, students are able to make course schedule changes by using the Student Access System on the UIC website or the UIC Express telephone registration system. The Office of Records and Registration sets a schedule, which is listed in the current *Timetable*, for students to make registration changes during the first few days of the semester. Course schedule changes can be made through the tenth day of classes (fifth day of the summer session) without penalty. The College of Liberal Arts and Sciences restricts adding courses after the first week of classes.

The drop deadline for all courses is the end of the sixth week of instruction (fifth week of summer). During the first two weeks of classes, students may use the Student Access System or the UIC Express to drop courses and the courses will not appear on their grade history. During the third through the sixth week of classes, CBA students must petition the Student Services Office in 1118 UH to drop classes. If approved, a grade of W will be assigned for the course and the student will be responsible for the tuition and fees assessed on the tenth day of classes. During a student's entire academic career in the CBA, a total of four courses may be dropped between the third and sixth week of the semester (between the second and fifth week during the summer term). CBA students may not drop courses after the sixth week of classes (fifth week of the summer term).

To avoid difficulty, we suggest you:

- seek the assistance of the CBA academic advisors to plan a manageable course schedule
- get feedback from your instructors before the drop deadline to determine if you are succeeding in your classes

- give careful consideration before using this option early in your academic career.

### Academic Standing

Students' academic standing will be based on their semester and/or cumulative grade point average. Students are either in "good standing," "on probation," or "dropped." Students who meet the requirements for the Dean's List will be notified at the end of each eligible semester. Students who are on academic probation or who have been dropped are informed of their status by a letter from the college following the end of the semester.

### Probation

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 3.00. They will then be expected to earn at least a 3.00 semester grade point average and to raise their cumulative grade point average to a 3.00 to achieve good academic standing. The probation rules apply to all students. Academic probation at UIC cannot be removed by course work from other colleges or universities. Probation is broken down as follows:

#### Levels of Probation

<b>Semester Probation</b>	Semester GPA is below a 3.00	Warning Status
<b>Academic Probation</b>	UIC Cumulative GPA is below a 3.00	Academic restrictions enforced until required GPA level is obtained
<b>Drop Status</b>	UIC Cumulative GPA is considerably below a 3.00	Student is dismissed from the University

### Probation Rules

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 term probation in any semester in which less than a 3.00 grade point average is earned (Warning Status).
2. A student in good academic standing is placed on academic probation in any semester in which the cumulative UIC grade point average falls below a 3.00.
3. A student presently on academic probation is continued on academic probation (unless dropped from the University) until both the cumulative and the UIC grade point averages are raised to 3.00.

*CBA Student Services determines the conditions of probation. In addition to specifying the grade point average, the college may require the completion of specific courses, may limit the number of hours for which students register, and may exclude students from taking certain courses while on probation.*

### Terms of Probation (Academic Restrictions)

All students on probation are required to adhere to the terms of probation. Failure to do so will result in registration holds and possible academic dismissal.

1. Students cannot register for any more than 12 hours of course work for the semester (6 hours during the summer term).
2. It is recommended that the student complete an Academic Skills Program (ASP) 060 course during the next term.



- Students must schedule an appointment with a CBA academic adviser three times during the semester to discuss their academic progress for the term. A hold will be placed on their registration for the following semester until probation advising has been satisfied.
- 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 Student Services Office during the fall and spring semesters.

### Drop Rules

- If a student is on academic probation, the student *may be dropped* 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 3.00.
- If a student is on academic probation, the student *may be dropped* in any term in which he/she fails to meet the grade point average required by the probation and in which the combined transfer and UIC grade point average is less than 3.00.
- If the student fails to make any significant progress toward a degree, the student *may be dropped*.

### Pass/Fail Option

Students may elect to take courses on the pass/fail option under the following conditions:

- Students must be on clear academic status (not on academic probation or status undetermined);
- Students must be enrolled full-time at UIC;
- Only one course per semester may be taken on the pass/fail option;
- A maximum of 21 semester hours of pass/fail credit can be earned at UIC.

Courses that may not be taken on the pass/fail option include:

- English 160, 161 and Business Administration 200;
- Economics 130, 218;
- Math 160, 165 (Math 180 or 181 may be taken pass/fail if used as an elective);
- 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 major level accounting courses if the student is majoring in accounting.

The pass/fail option for a course must be elected by the tenth day of instruction and cannot be revoked after the tenth day of instruction. To elect the pass/fail option, students must complete a Pass/Fail form. Pass/Fail forms are available in CBA Student Services during the first ten days of each semester. They must be submitted to 1118 University Hall by 4:30 p.m. (the close of business) on the tenth day of instruction.

### 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.

## Credit for Course Work Taken Outside the University

Students must obtain college approval prior to enrolling in courses outside of UIC.

Once College of Business Administration students reach junior standing, they may not be eligible to take courses at community colleges because of the residence requirements of the college. They are listed in the *Graduation Requirements* section.

### Proficiency Examinations

With department approval, a student may earn credit in any course offered by the University through proficiency examinations. This is subject to the University and departmental policy on proficiency examinations described in the catalog. Proficiency credit earned for a foreign language cannot be used towards the degree.

### 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 in each of the areas of social sciences (history) and natural sciences, provided it does not duplicate credit previously earned. CLEP credit will be awarded toward the CBA degree requirements based on the description and content of the exam.

### Advanced Placement (AP) Credit

The College accepts AP (Advanced Placement Program) credit in accordance with the policies stated in the *UIC Undergraduate Catalog*.

## Sample Four-Year Program

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.)

### Freshman Year

First Semester	Hours
BA 100	1
<i>BA 100 awards no graduation credit.</i>	
Engl 160	3
Math 160	5
Econ 130	5
Second Semester	Hours
Engl 161	3
Math 165	5
IDS 100	4
Philosophy/History*	3

### Sophomore Year

First Semester	Hours
Econ 218	4
Actg 110	3
IDS 270	4
Literature*	3

\* These courses can be taken during any semester in any order.

## Sophomore Year

Second Semester	Hours
Actg 111	3
Advanced Quantitative Skills	3
Philosophy/History*	3
Social Sciences*	3
Written Communications	3

## Junior Year

First Semester	Hours
Mgmt 340	3
Mktg 360	3
Fin 300	3
Natural Sciences*	5
Social Sciences*	3

Second Semester	Hours
IDS 355	3
Mgmt 350	3
Major Course	3
Major Course	3
Nonbusiness elective*	3

## Senior Year

First Semester	Hours
Major Course	3
Major Course	3
Major Course	3
Integrative course	4
Business elective or major course	3

Second Semester	Hours
Major course	3
Business elective or major course	3
Business elective or major course	3
Nonbusiness elective*	3
Nonbusiness elective*	3

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\* These courses can be taken during any semester in any order.

# Accounting

**2305 University Hall**

**Head of the Department:** Ram Ramakrishnan.

**(312) 996-2650**

## 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 - Association to Advance Collegiate Schools of Business.

## Curriculum 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: financial accounting, managerial accounting, governmental and nonprofit accounting, international accounting, auditing, information systems, and taxation. Business law courses are also offered by the department.

In addition to the specific course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Accounting. For additional graduation requirements, information on admission, and academic regulations in the college, see *College of Business Administration*.

### Requirements for the Major

	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
<b>Total Hours</b>	<b>19</b>

### Business Electives

	Hours
At least 8 semester hours must be taken from the following list:	8
Actg 355 —Business Law I (3)	
Actg 417 —Advanced Financial Accounting (3)	
Actg 427 —Management Planning and Control (3)	
Actg 446 —Federal Income Tax II (3)	
Actg 456 —Business Law II (3)	
Actg 465 —Governmental and Non-Profit 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 (3)	
<b>Total Hours —</b>	<b>8</b>

It is recommended that students who intend to sit for the CPA exam take Actg 355, 417, 446, and 456. Furthermore, before they take 300-level accounting courses, students should have completed IDS 100 and 270, as well as Econ 130.

# Economics

2103 University Hall

Head of the Department: Barry R. Chiswick.

Director of Undergraduate Studies: Evelyn L. Lehrer.

(312) 996-2683

The Department of Economics offers a Bachelor of Science degree in economics 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.

## Curriculum in Economics

In addition to the specific course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Economics. For additional graduation requirements, information on admission, and academic regulations in the college, see *College of Business Administration*.

### Requirements for the Major

	Hours
Econ 221 —Macroeconomics in the World Economy: Theory and Applications	3
An additional 15 hours of 300- or 400-level economics courses	15
<b>Total Hours</b>	<b>18</b>

Students may choose *any* 300- or 400-level courses for the 15 hours required above. 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:** Managerial Economics, Business Conditions Analysis, Business Forecasting Using Time-Series Methods, International Economics, Industrial Organization, Monetary Theory, Economics of Risk and Insurance

**Human Resources:** Labor Economics, Economic Development, Economic Demography, Health Economics, Economics of Education

**Urban Economics/Real Estate:** Urban Economics, Regional Economics, Introduction to Urban Real Estate, Environmental Economics, Labor Economics, Real Estate Finance, Real Estate Markets and Valuation

**International Studies:** International Economics, Economic Development, Business Conditions Analysis, Monetary Theory, Economic Demography

**Pre-Graduate School in Economics/Business/Public Policy/Public Administration:** Mathematical Economics, Labor Economics, Industrial Organization, International Economics, Public Finance, Economic History of the United States, Economic Development, Urban Economics, History of Economic Thought

**Pre-Law:** Law and Economics, Government and Business, Public Finance, Industrial Organization, Economic History of the United States, Economics of Risk and Insurance, Labor Economics, Health Economics

Economics majors are required to take Econ 346 (Econometrics) in the *Advanced Quantitative Skills* section, and this course does not count as one of the four elective 300- or 400-level courses. Economics majors may take Econ 495 to satisfy the integrative course requirement in the *Business Core*, but this course will not count as one of the four elective 300- or 400-level courses.

### Business Electives

	Hours
Nine hours at the 300- or 400-level chosen from courses in the College of Business Administration.	9
<b>Total Hours</b>	<b>9</b>



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.

Curriculum 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.

In addition to the specific course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Finance. For additional graduation requirements, information on admission, and academic regulations in the college, see *College of Business Administration*.

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.

Requirements for the Major

	Hours
Fin 310 —Investments	3
Students are advised that Fin 310 is a challenging course that introduces the student to advanced theoretical concepts in finance.	
Fin 320 —Managerial Finance	3
An additional 12 hours of 300- or 400-level courses in the Department of Finance. See the lists below for career path suggestions offered by the Department of Finance. Students may take any 12 hours of 300- or 400- level courses in the	

Department of Finance, but they are encouraged to organize these courses around one or two career path groups. 12

Total Hours 18

Finance majors are required to take either Econ 346 (Econometrics) or IDS 371 (Business Statistics II) from the Advanced Quantitative Skills Section.

Business Electives

	Hours
Nine hours of College of Business Administration courses at the 200, 300 or 400-level with a maximum of 3 hours at the 200-level. See the lists below for career path groups offered by the Department of Finance for some recommended business electives.	9
Total Hours	9

Course Suggestions for Finance Careers

Students may select the 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.

Fin 444 —Small Business Finance	3
Fin 495 —Competitive Strategy	4
Core Requirement	
Actg 315 —Intermediate Financial Accounting I	3
Business Elective	
Actg 316 —Intermediate Financial Accounting II	3
Business Elective	

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.

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.

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	3
Business Elective	

## 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.

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 <i>Business Elective</i>	3
Econ 333 —International Economics <i>Business Elective</i>	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.

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 <i>Business Elective</i>	3
Econ 475 —Real Estate Markets and Valuation <i>Business Elective</i>	3

# Information and Decision Sciences

**2402-04 University Hall**

**(312) 996-2676**

**Head of the Department:** Arkalgud Ramaprasad.

The Department of Information and Decision Sciences offers instruction in the application of computer and mathematical techniques to the analysis of problems of business and management. This involves three major interrelated disciplines: (1) computer information systems, (2) operations management and research, and (3) statistics

Majors in Information and Decision Sciences take courses that give a thorough background of 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*.

Students majoring in information and decision sciences are required to take Math 205 in the *Advanced Quantitative Skills Section*.

IDS 476 —Business Forecasting Using Time Series Methods (3)

IDS 478 —Regression Analysis (3)

**Total Hours** **24**

<sup>a</sup> IDS 420 will only count toward one requirement (i.e., toward the Computing requirement or as one of the 400-level courses chosen from the last menu.

## Business Electives

	Hours
Any 400-level IDS course (except IDS 495) or any non-IDS 400-level course with departmental approval.	3

**Total Hours** **3**

## Curriculum in Information and Decision Sciences

In addition to the specific course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Information and Decision Sciences. For additional graduation requirements, information on admission, and academic regulations in the College, see *College of Business Administration*.

### Requirements for the Major

	Hours
IDS 201 —Business Computing I	3
IDS 371 —Business Statistics II	3
IDS 410 —Business Database Design	3
IDS 450 —Operations Management II	3
One of the following computing courses:	3
IDS 400 —Advanced Business Programming Using Visual Tools (3)	
IDS 401 —Business Computing II: Data Structures and Operating Systems (3)	
IDS 420 —Business Systems Simulation <sup>a</sup> (3)	
CS 201 —Data Structures and Discrete Mathematics I (4)	
Three of the following courses:	9
IDS 405 —Business Systems Analysis Design (3)	
IDS 406 —Business Systems Design Project (3)	
IDS 412 —Distributed Business Systems (3)	
IDS 413 —Internet Technologies and Management (3)	
IDS 420 —Business Systems Simulation <sup>a</sup> (3)	
IDS 422 —Decision Support and Expert Systems (3)	
IDS 426 —Computer Performance Evaluation and Modeling (3)	
IDS 435 —Operations Research I (3)	
IDS 437 —Operations Research III (3)	
IDS 446 —Decision Analysis (3)	
IDS 460 —Survey Sampling: Theory and Methods (3)	
IDS 470 —Multivariate Analysis I (3)	
IDS 472 —Statistical Methods for Management Information Systems and Data Mining (3)	
IDS 474 —Quality and Productivity Improvement Using Statistical Methods (3)	

# International Business

The College of Business Administration offers a concentration for undergraduate students that results in a Certificate in International Business. The concentration 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 concentration requires 18 hours as distributed below.

## Concentration in International Business

	Hours
Econ 221 —Macroeconomics in the World Economy: Theory and Applications	3
12 hours selected from the following:	12
Actg 484 —International Accounting (3)	
Econ 333 —International Economics (3)	
Econ 334 —Economic Development (3)	
Fin 442 —International Finance (3)	
Mgmt 460 —Business, Society, and the Global Economy (3)	
Mktg 466 —Comparative Marketing Systems (3)	
Mktg 469 —International Marketing (3)	
<i>Actg 484 and Fin 442 have a prerequisite course that is not included in the business core.</i>	
<i>No more than 6 of the 15 hours in business courses listed above may be counted toward the required major courses. The remaining hours may be counted toward the business electives portion of the major. For example, a student majoring in Marketing may count Mktg 466 and Mktg 469 toward the required courses in marketing; other courses in the above list may be counted as business electives.</i>	
One of the following courses that is included in the Social Sciences section of the curriculum must be chosen (the course will count toward the required 6 hours of social sciences):	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)	
<b>Total Hours</b>	<b>18</b>

Students are encouraged to use their nine non-business elective hours to take courses that would complement the required courses listed above, e.g., additional social science courses in the field of international studies and courses in a foreign language.

Depending on the major, completion of this concentration may bring the total number of semester hours to over 120.



# Managerial Studies

**2202 University Hall**  
**Head of the Department:** Abigail McWilliams.

**(312) 996-2680**

The Department of Managerial Studies offers a *Bachelor of Science in Management* and a *Bachelor of Science in Marketing*.

## Curriculum in Management

The field of management is concerned with the effective organization, development and administration of business and other organizations. Students receive both a 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.

In addition to the specific course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Management. For additional graduation requirements, information on admission, and academic regulations in the college, see *College of Business Administration*.

### Requirements for the Major

	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
<b>Total Hours</b>	<b>18</b>

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.

	Hours
<b>Human Resources Management and Managerial Skills</b>	
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
<b>Organization and Strategic Management</b>	
Mgmt 455 —Entrepreneurship: New Venture Formation	3
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
<b>Cross-Listed Courses</b>	
Mgmt 444 —Industrial Sociology	3
Mgmt 447 —Organizations	3

### Business Electives

	Hours
Nine hours from courses in the College of Business Administration. Students may choose Econ 221 or a CBA course at the 300- or 400- level.	9
<b>Total Hours</b>	<b>9</b>

## Specialized Programs

Within the management major, a student may develop a sequence of courses designed to meet special career objectives. This sequence must include a certain number of management courses but may also include courses drawn from other disciplines. The student must demonstrate that this proposed sequence does in fact support his or her professional objectives and must obtain approval of the department head prior to embarking upon such a program.

### Double Majors

Students majoring in management are encouraged to consider a double major. This entails fulfilling the requirements of a major in management and those of another major in business administration. Careful planning of the student's curriculum will permit this. The advantage in pursuing a double major is that a student may combine a background in management with another specialized area of interest, thereby widening his or her career alternatives and placement possibilities.

## Curriculum 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.

In addition to the specific course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Marketing. For additional graduation requirements, information on admission, and academic regulations in the college, see *College of Business Administration*.

### Requirements for the Major

	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.	9
<b>Total Hours</b>	<b>18</b>

### Business Electives

	Hours
Nine hours from courses in the College of Business Administration. Students may choose Econ 221 or a CBA course at the 300- or 400- level.	9
<b>Total Hours</b>	<b>9</b>

# Business Administration Courses

## Accounting (Actg)

- 110 Introduction to Financial Accounting. 3 Hours.** Extensive computer use required. Concepts and standards underlying the preparation and analysis of external reports; alternative effects and role of accounting in the business environment and capital markets. Prerequisite: Sophomore standing.
- 111 Introduction to Managerial Accounting. 3 Hours.** Extensive computer use required. 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. Prerequisites: Actg 110 and sophomore standing.
- 315 Intermediate Financial Accounting I. 3 Hours.** For satisfactory progress in the accounting major, students must receive a grade of C or better in Accounting 315. Accounting 315 may be repeated only once. Theory and standards related to asset valuation, revenue recognition, gain and loss recognition, and their impact on income measurement and financial position. Prerequisites: A grade of C or better in Actg 110 and Actg 111 and, for accounting majors, a passing grade on the Accounting Qualifying Exam (AQE). A waiver from the AQE will be granted only to students who have an average of B or higher in Actg 110 and Actg 111. Finance majors must have a C or better in Actg 110 and Actg 111.
- 316 Intermediate Financial Accounting II. 3 Hours.** 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. Prerequisites: A grade of C or better in Actg 315.
- 326 Cost Accounting. 3 Hours.** For satisfactory progress in the accounting major, students must receive a grade of C or better in Accounting 326. Accounting 326 may be repeated only once. Design of cost accounting systems, alternate costing methods, costing for decision making, budgeting and performance evaluation. Prerequisites: A grade of C or better in Actg 110 and Actg 111, and, for Accounting majors, a passing grade on the Accounting Qualifying Exam (AQE). A waiver from AQE will be granted only to students who have an average of B or higher in Actg 110 and Actg 111.
- 355 Business Law I. 3 Hours.** Commercial law of contracts, sales, commercial paper, agency, suretyship, insurance law, and CPA liability. Prerequisites: Actg 111 and junior standing.
- 394 Special Topics in Accounting - Undergraduate. 3 Hours.** Investigates selected contemporary accounting topics using readings in both academic and professional journals as well as cases for analysis. Prerequisites: Actg 316 and 326.
- 396 Independent Study in Accounting - Undergraduate. 3 Hours.** Independent study in approved topics; written report prepared under the guidance of a faculty member is required. Prerequisites: Actg 316 and 326, declaration of a major, and approval of the department.

- 417 Advanced Financial Accounting. 3 Hours.** Financial accounting theory for business combinations, consolidated financial statements, international transactions and investments, and partnership accounting. Prerequisite: Actg 316.
- 435 Auditing. 4 Hours.** Previously listed as Accounting 335. Extensive computer use required. No graduation credit for students enrolled in the M.S. in Accounting program. 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. Prerequisite: Actg 316.
- 445 Federal Income Tax I. 3 Hours.** Previously listed as Accounting 345. Credit is not given for Accounting 445 if the student already has credit in Accounting 508. Concepts and provisions of federal income taxation as applicable to individual taxpayers, partnerships, individuals and trusts. Prerequisite: Actg 315.
- 446 Federal Income Tax II. 3 Hours.** Concepts and provisions of federal income taxation on corporations and partnerships; special problems in reorganization, liquidations, and personal holding companies. Prerequisites: Actg 345 or the equivalent, and declaration of a major.
- 456 Business Law II. 3 Hours.** Commercial law for partnerships, corporations, secured transactions, bankruptcy, real and personal property, wills and trusts, SEC regulations, unfair trade activities. Prerequisites: Actg 355 or the equivalent, and declaration of a major.
- 465 Governmental and Non-Profit Accounting. 3 Hours.** Financial transaction analysis and recording system; budget preparation and control; concepts and principles underlying the financial reports of governmental and non-profit organizations. Prerequisite: Actg 316.
- 474 Accounting Information Systems. 3 Hours.** Extensive computer use required. 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. Prerequisites: Actg 110 and IDS 100.
- 475 Database Accounting Systems. 3 Hours.** Same as Information and Decision Sciences 475. Extensive computer use required. Concepts and principles of designing database systems to perform accounting functions, applications of microcomputer accounting software packages systems design tools, and computerized transaction cycles. Prerequisites: Actg 111 and IDS 100.
- 484 International Accounting. 3 Hours.** Financial accounting for international operations, multinational managerial accounting and control, comparative international accounting, international reporting issues, and international taxation. Prerequisite: Actg 316.
- 485 Valuation and Analysis. 3 Hours.** Extensive computer use required. Financial analysis and valuation of firms. Corporate strategies, financial reporting issues and market perceptions. Prerequisites: Actg 315 and Fin 300.

- 494 Special Topics in Accounting. 1 to 4 Hours.** 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: Two courses in accounting or finance beyond Actg 111 and Fin 300 or the equivalent.
- 495 Competitive Strategy. 4 Hours.** 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: Senior standing in the College of Business Administration and completion of all other CBA core courses, or consent of the instructor.

## Business Administration (BA)

- 100 Business Administration Orientation. 1 Equivalent Hour. 0 Academic Hours.** No graduation credit. Satisfactory/Unsatisfactory grade only. Should be taken in the first semester after acceptance into the College of Business Administration. Orientation to resources available at UIC. Introduction to study strategies and techniques. Orientation to majors and careers in business. Prerequisite: Admission to the College of Business Administration.
- 200 Managerial Communication. 3 Hours.** Principles of effective business communication applied to practice in writing and speaking, individual and team work; emphasis on written communication. Prerequisite: Engl 161 or the equivalent.
- 289 Cooperative Business Education Program: Off Campus. 0 Hours.** Satisfactory/unsatisfactory grade only. Cooperative Education provides students an opportunity to gain practical work experience in their field of study and to test their career choice. Prerequisites: Full-time status, admission into the College of Business Administration, good academic standing, 12 semester hours at UIC, and consent of the CBA Career Center coordinator.
- 300 Advanced Managerial Communication. 3 Hours.** Advanced study of business communication, including practice in the writing of proposals and reports; emphasis on oral presentations and use of multimedia techniques. Prerequisite: BA 200.

## Economics (Econ)

- 100 Economic Decisions for Consumers and Families. 3 Hours.** Principles of consumer education. Consumer decision making and consumer responsibility throughout the life cycle.
- 110 Economics of Gender. 3 Hours.** Same as Gender and Women's Studies 110. 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.
- 120 Principles of Microeconomics. 3 Hours.** Credit is not given for Economics 120 if the student has credit for Economics 130. Scarcity and choice, price system, decision making by consumers, individual and market demand, optimal input decisions by firms, perfect and imperfect competition, international trade.

- 121 Principles of Macroeconomics. 3 Hours.** Credit is not given for Economics 121 if the student has credit for Economics 130. Determinants of the level of economic activity, inflation, unemployment, interest rates, the roles of fiscal and monetary policies, exchange rates, international trade.
- 130 Principles of Economics for Business. 5 Hours.** Credit is not given for Economics 130 if the student has credit for Economics 120 or 121. The price system, supply and demand, decision-making by consumers and firms, market structure, the level of economic activity, inflation, unemployment, international trade.
- 201 Honors Seminar in Economics. 1 Hour.** May be repeated for a maximum of 4 hours of credit with approval of the instructor and the Honors College. Satisfactory/unsatisfactory grade only. Selected issues in economics. Topics vary. Prerequisite: Membership in the Honors College and consent of the instructor.
- 211 Topics in Economics Taught in Spanish. 3 Hours.** Applications of economic principles to analysis of selected economic issues, taught in Spanish. Specific topics to vary across semesters. Prerequisite: Econ 120 or 130, and Span 303; or consent of the instructor.
- 218 Microeconomics: Theory and Business Applications. 4 Hours.** Credit is not given for Economics 218 if the student has credit for Economics 220. The price system, efficient resource allocation by consumers, firms, and government; perfect and imperfect competition; government regulation; ethics and the marketplace; business applications. Prerequisites: Econ 130 or both Econ 120 and 121; and either Math 160 or 165 or 180.
- 220 Microeconomics: Theory and Applications. 3 Hours.** Credit is not given for Economics 220 if the student has credit for Economics 218. 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. Prerequisites: Econ 130 or both Econ 120 and 121; and either Math 160 or 165 or 180.
- 221 Macroeconomics in the World Economy: Theory and Applications. 3 Hours.** Determinants of the level of economic activity, inflation, unemployment, international economics, impact of domestic and world economy on business decisions, applications of the theory. Prerequisites: Econ 130 or both Econ 120 and 121; and either Math 160 or 165 or 180.
- 270 Statistics for Economics. 4 Hours.** Descriptive statistics, probability theory, discrete and continuous probability distributions, sampling distributions, estimation, hypothesis testing. Prerequisite: Math 160.
- 298 Internship in Economics. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Satisfactory/Unsatisfactory grade only. Placement in a co-op or internship experience using skills in economics in an approved professional setting. A report must be written on the job experience. Prerequisites: Econ 130; or both Econ 120 and 121; and consent of the LAS or CBA co-op advisor, a faculty member from the Economics Department, and either the Department Head or Director of Undergraduate Studies.
- 320 Law and Economics. 3 Hours.** Economic analysis of law and legal processes; economic theory and applications of property law, contract law, and criminal law. Prerequisites: Econ 218 or 220; or consent of the instructor and either Econ 120 or 130 for pre-law students and criminal justice majors.
- 322 Managerial Economics. 3 Hours.** 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: Econ 218 or 220.
- 323 Business Conditions Analysis. 3 Hours.** 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. Prerequisites: Econ 221; and either Econ 346 or IDS 371.
- 324 Economic History of the United States. 3 Hours.** Growth and structural changes in the American economy from colonial times to the present; special emphasis on contributing forces and factors. Prerequisite: Econ 218 or 220.
- 325 Topics in Economic History. 3 Hours.** Analysis of interaction between historical and economic factors in the evolution of economies. Specific topics to vary. Prerequisite: Econ 218 or 220 or 221.
- 326 History of Economic Thought. 3 Hours.** Selected topics in the evolution of positive and normative economics from the seventeenth century to the present. Prerequisite: Econ 218 or 220 or 221.
- 328 Public Finance. 3 Hours.** 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: Econ 218 or 220.
- 329 Industrial Organization. 3 Hours.** Theory of the structure of markets, measures of industrial concentration, monopoly power, mergers and takeovers, price discrimination, product differentiation, advertising, research and development. Prerequisite: Econ 218 or 220.
- 330 Government and Business. 3 Hours.** Theory and survey of U.S. market structure, antitrust policy and monopoly power, economic regulation including price and quality regulation, social regulation. Prerequisite: Econ 218 or 220.
- 331 Labor Economics. 3 Hours.** Applies economic theory to labor markets and related economic phenomena; earnings, employment, unemployment, worker mobility, migration, discrimination. Prerequisite: Econ 218 or 220.
- 332 Urban Economics. 3 Hours.** Survey of economic problems of cities, demand for and supply of housing and urban land, residential segregation, suburbanization, impact of government programs. Prerequisite: Econ 218 or 220.
- 333 International Economics. 3 Hours.** The balance of payments; fixed, flexible, and multiple exchange rates; capital flows; comparative advantage; tariffs and subsidies; the factor price equalization theorem. Prerequisite: Econ 218 or 220 or 221.
- 334 Economic Development. 3 Hours.** Characteristics of poor countries, past experience and its relevance, analytical approaches, the role of exposure to foreign factors, planning and other policies. Prerequisite: Econ 218 or 220 or 221.
- 339 Monetary Theory. 3 Hours.** Modern money supply and demand theory, the role of money in domestic and international financial markets and in determining economic growth and inflation. Prerequisite: Econ 221 or Fin 300.
- 342 Regional Economics. 3 Hours.** Location of economic activity, systems of cities, economic base theory, regional input-output analysis, neo-classical models of factor mobility, and local area economic development. Prerequisite: Econ 218 or 220 or 221.
- 345 Introduction to Mathematical Microeconomics. 3 Hours.** Mathematical analysis of microeconomic theory: mathematical treatment of price theory and the behavior of consumers and firms. Prerequisites: Math 160 and Econ 220.
- 346 Econometrics. 3 Hours.** Specification of economic models, measurement of variables, estimation of economic relationships and testing of economic hypotheses, ordinary least squares regression and extensions. Prerequisites: Econ 120 or 121 or 130; and either Econ 270 or IDS 270.
- 351 Economics of Education. 3 Hours.** 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. Prerequisites: Econ 218 or 220; or consent of the instructor and either Econ 120 or 130 for students enrolled in the College of Education.
- 353 Economic Demography. 3 Hours.** 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: Econ 218 or Econ 220.
- 354 Health Economics. 3 Hours.** Supply and demand for health services, the role of insurance in the health care industry, public policy issues, cost and quality regulation. Prerequisites: Econ 218 or 220; or consent of the instructor and either Econ 120 or 130 for students enrolled in a health sciences college.
- 365 Economics of Risk and Insurance. 3 Hours.** Uncertainty, risk aversion, risk pooling; moral hazard and adverse selection; the economics of self-insurance, social insurance, and the private insurance industry. Prerequisite: Econ 218 or Econ 220.
- 370 Environmental Economics. 3 Hours.** 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: Econ 218 or 220.
- 371 Introduction to Urban Real Estate. 3 Hours.** Same as Finance 371. Introductory survey of urban real estate; business, legal, economic and financial perspectives. Prerequisite: Econ 218 or 220.
- 390 Special Topics in Economics. 3 Hours.** Exploration of an area not covered in existing course offerings, or study in greater depth of a subject covered in an existing course. Prerequisite: Consent of the instructor.



**395 Research and Writing in Economics. 0 Hours.** Satisfactory/Unsatisfactory grade only. May be repeated. Students may register for more than one section per term. This course is used to identify the “Writing in the Disciplines” requirement. Development of analytical and writing skills in economics. Prerequisite: Concurrent registration in a designated 300- or 400-level economics course.

**399 Independent Study in Economics. 1 to 3 Hours.** May be repeated once for credit. Independent study in an area not covered by existing courses or exploration in greater depth of issues covered in a previously taken course. Prerequisites: 9 hours of economics courses at the 300-level or above and consent of a faculty member and the head of the department.

**436 Mathematical Economics. 3 Hours.** Application of mathematics to theories of consumer and producer behavior, determination of prices in markets, growth and stability features of macroeconomic models. Prerequisites: Econ 218 or 220; and either Econ 345 or Math 165 or 180.

**441 Teaching Methods in Economics. 3 Hours.** Credit earned in Economics 441 may not be used to satisfy economics credit requirements for the BA, BS, MA or PhD degrees given by the Department of Economics. Credit earned in Economics 441 may be applied toward the degree as an elective. 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. Prerequisites: For undergraduate students, two 300- or 400-level electives in economics; for graduate students in economics, one course in graduate-level microeconomics or macroeconomics.

**450 Business Forecasting Using Time Series Methods. 3 Hours.** Same as Information and Decision Sciences 476. Autoregressive, moving average, and seasonal models for time series analysis and business forecasting. Forecasting using multivariable transfer function models is also included. Prerequisites: IDS 371 or Econ 445 or consent of the instructor.

**472 Real Estate Finance. 3 Hours.** Same as Finance 472. 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. Prerequisite: Fin 300.

**475 Real Estate Markets and Valuation. 3 Hours.** Real estate market analysis. Sales comparison, cost and income approaches to estimating residential and commercial property values. Statistical procedures for real estate analysis. Prerequisite: Econ 218 or 220; and IDS 270 or Econ 270; or the equivalent or consent of the instructor.

**495 Competitive Strategy. 4 Hours.** Multidisciplinary analysis of organizational strategy and policy, using case method and/or business simulation. Assignments involve extensive library research and oral and written reports. Prerequisites: Senior standing in the College of Business Administration and completion of all other CBA core courses, or consent of the instructor.

## Finance (Fin)

**200 Personal Finance. 3 Hours.** Principles governing the intelligent management of personal finance: budgeting credit, insurance, housing, stocks and bonds, mutual funds, taxes, and retirement planning.

**300 Introduction to Managerial Finance. 3 Hours.** Description of financial markets; time value of money; risk and return; market valuation of securities; capital budgeting, capital structure, and dividend policy of firms. Prerequisites: Actg 111 and Econ 218 and Engl 161 and IDS 270.

**310 Investments. 3 Hours.** 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. Prerequisites: Math 205 and Fin 300.

**320 Managerial Finance. 3 Hours.** 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: Fin 300.

**371 Introduction to Urban Real Estate. 3 Hours.** Same as Economics 371. Introductory survey of urban real estate; business, legal, economic and financial perspectives. Prerequisite: Econ 218 or 220.

**396 Independent Study. 1 to 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Independent study, under the direction of a faculty member, must be arranged before the start of the semester. Prerequisite: Consent of the department head.

**412 Portfolio Management. 3 Hours.** Development of portfolio theory; establishment of portfolio objectives for individuals, corporations, banks, pension and mutual funds; evaluation of portfolio performance. Prerequisite: Fin 310.

**415 Fixed Income Securities. 3 Hours.** Valuation of fixed income securities, term structure estimation and arbitrage trading with practical application using real data. Prerequisite: Fin 310.

**416 Options and Futures Markets. 3 Hours.** 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 that determine futures and options prices. Prerequisite: Fin 310.

**430 Introduction to Money and Banking. 3 Hours.** Payment and banking systems; credit and market risk management; The Federal Reserve System; globalization of monetary, banking, and regulatory systems. Prerequisite: Fin 300.

**431 Theory and Structure of Financial Markets. 3 Hours.** 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: Fin 300.

**442 International Finance. 3 Hours.** 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. Prerequisites: Fin 300 and 310.

**444 Small Business Finance. 3 Hours.**

Aspects of acquiring funds for small business enterprises. Topics include the trade-off of liquidity and profitability, management of working capital, and capitalization. Prerequisite: Fin 300.

**465 Property and Liability Insurance. 3 Hours.** Using property and liability insurance to manage risk. Topics may include fire, marine, consequential loss, crime, title, automobile, and workers' compensation insurance. Prerequisite: Fin 300 or consent of the instructor.

**466 Life and Health Insurance. 3 Hours.** Types, uses, and evaluation of life and health insurance. Economics of the industry. Regulation and taxation. Prerequisite: Fin 300 or consent of the instructor.

**472 Real Estate Finance. 3 Hours.** Same as Economics 472. 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. Prerequisite: Fin 300.

**494 Special Topics in Finance. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Content, prerequisites, and course of study will vary according to the instructor. Prerequisite: Consent of the instructor.

**495 Competitive Strategy. 4 Hours.** 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. Prerequisites: Senior standing in the College of Business Administration and completion of all other CBA core courses, or consent of the instructor.

## Information and Decision Sciences (IDS)

**100 Management Information Systems I. 4 Hours.** 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.

**201 Introduction to Business Computing. 3 Hours.** Credit is not given for Information and Decision Sciences 201 if the student has credit for Mathematical Computer Science 260. Disciplined computer-assisted problem solving. Structured programming, data types and data structures, modularization. Program design for business information- and decision-support. Prerequisites: IDS 100 and Math 160 or the equivalent courses.

**270 Business Statistics I. 4 Hours.** Survey of concepts and techniques for business applications of statistics. Use of computer software for tabulation and analysis of data. Prerequisites: IDS 100 and Math 160.

**355 Operations Management. 3 Hours.** Application of management sciences to the planning and design of production, distribution, and service systems. Prerequisites: IDS 100 and 270, and Econ 218 and Engl 161.

**371 Business Statistics II. 3 Hours.** Continuation of survey of statistical concepts and techniques for operational and managerial decisions. Use of computer software for analysis of data. Prerequisites: IDS 270 and Math 165.



- 400 Advanced Business Programming Using Visual Tools. 3 Hours.** Visual extended business language capabilities, including creating and using controls, menus and dialogs, objects and instances, mouse events, graphics, file-system controls. Prerequisites: IDS 201 or a programming course in mathematics or electrical engineering and computer science, or consent of the instructor.
- 401 Business Computing II: Data Structures and Operating Systems. 3 Hours.** Data structures; file structures. Searching and sorting; algorithm design and analysis. Operating systems; process management; memory management; processor management; file systems; case studies; programming projects. Prerequisite: IDS 201.
- 405 Business Systems Analysis and Design. 3 Hours.** 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. Prerequisites: IDS 201.
- 406 Business Systems Design Project. 3 Hours.** Selected issues in the design, development, and evaluation of computer-based business information systems: forms design, general software systems, users interfaces, research systems, quality control, and documentation standards. Includes a project at an outside company or University office. Prerequisites: IDS 201 and 405 or the equivalent courses; or consent of the instructor. Business administration students must have declared a major.
- 410 Business Database Technology. 3 Hours.** 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. Prerequisite: IDS 201.
- 412 Distributed Business Systems. 3 Hours.** Organizational aspects and underlying concepts of distributed business systems, decentralization versus centralization issues, costs of distributed computing, and performance evaluation measures. Prerequisites: IDS 400 or 401, and credit or concurrent registration in IDS 410; or consent of the instructor.
- 413 Internet Technology and Management. 3 Hours.** Credit is not given for Information and Decision Sciences 413 if the student has credit for Information and Decision Sciences 424. Extensive computer use required. Covers 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. Prerequisites: IDS 400 and IDS 410.
- 420 Business Systems Simulation. 3 Hours.** Simulation analysis of the operations of a system from the perspective of the entire company; optimal decisions are generated for the controllers of the systems. Prerequisites: IDS 201 and IDS 355 and Math 205 or the equivalent courses.
- 422 Knowledge Management Systems. 3 Hours.** This is a course on 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. Prerequisite: IDS 355 and 410 or consent of the instructor.
- 435 Operations Research I. 3 Hours.** Linear programming, simplex algorithm, duality, sensitivity analysis, convex programming, parametric programming. Transportation and assignment problems, goal programming. Prerequisites: IDS 355; and Math 205 or the equivalent. Business administration students must have declared a major.
- 437 Operations Research III. 3 Hours.** Markov chains, queuing theory, stochastic inventory control theory, dynamic programming. Prerequisites: IDS 355 and Math 205 or the equivalent. Business administration students must have declared a major.
- 446 Decision Analysis. 3 Hours.** Prior and posterior distributions, conjugate priors, value of information, applications to decision making in business. Prerequisite: IDS 371.
- 450 Advanced Operations Management. 3 Hours.** Extensive computer use required. 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. Prerequisite: IDS 355 or the equivalent. Business administration students must have declared a major.
- 454 Introduction to Supply Chain Management. 3 Hours.** Supply chain management is studied as an information-intensive, integrated system for managing material flows, logistics and inter-organizational partnership to deliver products and services. Prerequisite: IDS 450.
- 460 Survey Sampling: Theory and Methods. 3 Hours.** 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 are discussed. Prerequisite: IDS 371.
- 462 Statistical Software for Business Applications. 3 hours.** Statistical software in business applications and data mining. SAS and other packages such as SPSS, MATLAB, Maple, Splus, B34S, SCA. Prerequisite: IDS 371 or consent of the instructor.
- 470 Multivariate Analysis. 3 Hours.** 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. Prerequisites: IDS 371 and Math 205; or Math 310; or Math 320.
- 472 Statistical Methods for Information Systems and Data Mining. 3 Hours.** Updating statistical databases. Cluster analysis, logistic regression, classification and regression trees, neural networks, path analysis. Applications to marketing, quality assurance, operations management, human resources management. Prerequisite: IDS 371 or the equivalent.
- 474 Quality and Productivity Improvement Using Statistical Methods. 3 Hours.** Directed experimentation for quality and productivity improvement, quality surveillance, design and analysis of two-level factorial experiments and multi-level experiments, data transformation. Prerequisite: IDS 371 or consent of the instructor.
- 475 Database Accounting Systems. 3 Hours.** Same as Accounting 475. Extensive computer use required. Concepts and principles of designing database systems to perform accounting functions, applications of microcomputer accounting software packages systems design tools, and computerized transaction cycles. Prerequisites: Actg 111 and IDS 100.
- 476 Business Forecasting Using Time Series Methods. 3 Hours.** Same as Economics 450. Autoregressive, moving average, and seasonal models for time series analysis and business forecasting. Forecasting using multivariable transfer function models is also included. Prerequisite: IDS 371 or Econ 445 or consent of the instructor.
- 478 Regression Analysis. 3 Hours.** Data collection and exploration; model building; variable least squares; residual analysis; variable selection; multicollinearity; ridge regression; nonlinear regression; nonparametric regression. Prerequisite: IDS 371.
- 494 Topics in Information and Decision Sciences. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Topics vary; selected readings; case analysis. Prerequisite: Consent of the instructor.
- 495 Competitive Strategy. 4 Hours.** Multidisciplinary analysis of organizational strategy and policy, using case method and/or business simulation. Assignments involve extensive library research and oral and written reports. Prerequisites: Senior standing in the College of Business Administration and completion of all other CBA core courses, or consent of the instructor.
- 499 Independent Study in Information and Decision Sciences. 1 to 3 Hours.** May be repeated for a maximum of 9 hours of credit. Intensive study of selected topics determined in consultation with the instructor and department head. Prerequisites: Major in information and decision sciences and consent of the instructor.

## Management (Mgmt)

- 340 Introduction to Organizations. 3 Hours.** 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. Prerequisites: Econ 218 and Engl 161, and Math 160 and 165.
- 350 Business and Its External Environment. 3 Hours.** Concerns the political, economic, social, legal, regulatory and international environment of business and the ethics and social responsibility of business actions. Prerequisites: Econ 218 and Engl 161, and Math 160 and 165.
- 430 Family Business Management. 3 Hours.** Competitive strengths/weaknesses of a family business, dynamics of family interactions within the overlapping family, management and ownership systems. Prerequisite: Consent of the instructor. Prior experience in a family business is recommended.

- 444 Industrial Sociology. 3 Hours.** Same as Sociology 444. Analysis of industrial society and industrial institutions; the meaning of work and work relations; technology and economic change. Prerequisite: 6 hours of upper-division sociology or management or consent of the instructor.
- 445 Organizational Analysis and Practice. 3 Hours.** Emphasis on organizational theories and models to analyze and improve functioning and performance of organizations. Structure, technology, environmental adaptation, and managerial control systems are considered. Prerequisites: Junior standing and Mgmt 340.
- 447 Organizations. 3 Hours.** Same as Sociology 447. Characteristics of business, government, and not-for-profit organizations; approaches used to study organizations; theoretical and empirical analysis of organizational processes. Prerequisite: 6 hours of upper-division sociology, management, or political science; or consent of the instructor.
- 452 Organizational Behavior. 3 Hours.** Emphasis on understanding and managing people at work. Analysis of individual, group and organization topics including leadership, motivation, attitudes, group dynamics, and organizational culture. Prerequisites: Junior standing and Mgmt 340.
- 453 Human Resource Management. 3 Hours.** Examination of the activities involved in attracting, retaining, and motivating employees. Topics include planning, selection, compensation, performance appraisal, succession, and legal issues. Prerequisites: Junior standing and Mgmt 340 and 350.
- 454 Labor-Management Relations. 3 Hours.** Labor unions and their impact on business firms and society. Labor-management relationships and collective bargaining practices. Public policy, union structure, and bargaining theory. Prerequisites: Junior standing and Mgmt 340 and 350.
- 455 Entrepreneurship: New Venture Formation. 3 Hours.** Same as Marketing 454. Awareness and realistic understanding of the new venture formations process, role of the entrepreneur in the economy and society, entrepreneurial characteristics overview and self-evaluation. Prerequisites: Fin 300, Mgmt 340, and Mktg 360 or consent of the instructor.
- 460 Business, Society, and the Global Economy. 3 Hours.** Managing in a free enterprise system. Market, regulatory, ethical, and cultural norms. Internationalization of business; urban problems of business; landmark and contemporary case analyses. Prerequisites: Mgmt 340 and 350.
- 463 Negotiation and Conflict Resolution. 3 Hours.** 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: Mgmt 340.
- 465 Compensation and Reward Systems. 3 Hours.** Examination of compensation and reward systems designed to enhance employee motivation and performance. Topics include pay structure design, incentive systems, and benefits. Prerequisites: Mgmt 453 and 454.

- 466 Managerial Effectiveness Through Diversity. 3 Hours.** Management of diverse work forces. Discrimination, affirmative action, career development, socialization and social change policies; historical, psychological, sociological, legal and managerial viewpoints. Prerequisite: Mgmt 340.
- 467 Impact of Technological Change. 3 Hours.** 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. Prerequisites: Mgmt 340 and 350.
- 470 Career Planning and Development. 3 Hours.** Individual and organizational perspectives in career planning. Self-direction, networking, support facilities, and corporate management systems are included. Prerequisites: Junior standing and Mgmt 340 or the equivalent.
- 471 Management and Organizational Development. 3 Hours.** 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. Prerequisites: Mgmt 340 and 452 or consent of the instructor.
- 480 Transportation Systems Management. 3 Hours.** 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. Prerequisites: Mgmt 340 and 350 or consent of the instructor.
- 481 Managerial Logistics. 3 Hours.** 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: IDS 355 or consent of the instructor.
- 485 Business Ethics. 3 Hours.** Leading theories of ethics and moral choice. Analysis of ethical problems in business. Guidelines for ethical decision making. Case studies in business ethics. Prerequisites: Mgmt 340 and 350.
- 494 Special Topics in Management. 3 Hours.** 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. Prerequisites: Senior standing and 9 hours of 400-level management courses; or consent of the instructor.
- 495 Competitive Strategy. 4 Hours.** Multidisciplinary analysis of organizational strategy and policy, using case method and/or business simulation. Assignments involve extensive library research and oral and written reports. Prerequisites: Senior standing in the College of Business Administration and completion of all other CBA core courses, or consent of the instructor.
- 499 Independent Study in Management. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Independent study of an approved topic in management. Student must prepare a written report under the guidance of the instructor. Prerequisite: Consent of the department head.

## Marketing (Mktg)

- 360 Introduction to Marketing. 3 Hours.** Required of all students in the College of Business Administration. The role of marketing in business and society. The marketing decision process in domestic and international settings. Prerequisites: Econ 218 and Engl 161, and Math 160 and 165.
- 452 Principles of Retailing. 3 Hours.** Theory and practice in the making of retailing decisions; merchandising policies, buying policies, and activities; pricing policies and practices, promotional policies, credit policies, and practices. Prerequisite: Mktg 360.
- 454 Entrepreneurship: New Venture Formation. 3 Hours.** Same as Management 455. Awareness and realistic understanding of the new venture formations process, role of the entrepreneur in the economy and society, entrepreneurial characteristics overview and self-evaluation. Prerequisites: Fin 300, Mgmt 340, and Mktg 360 or consent of the instructor.
- 461 Consumer Market Behavior. 3 Hours.** 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: Mktg 360 or consent of the instructor.
- 462 Marketing Research. 3 Hours.** An investigation of the gathering, analysis and interpretation of information used in solving marketing problems. Pertinent modern research techniques from mathematics and the behavioral sciences are employed in developing an analytical framework. Prerequisite: Mktg 360.
- 463 Marketing Channels. 3 Hours.** Principles of developing an integrated distribution system; relationship to firm's marketing structure; evaluation of decisions on sources; evaluation of decisions on raw-material sources, plant and warehouse location, outlets; analysis of products through marketing channels. Prerequisites: Mktg 360. Business administration students must have declared a major, or have received consent of the instructor.
- 464 Small Business Consulting. 3 Hours.** Student teams diagnose and recommend solutions to problems of Chicago-area small businesses with assistance of retired executives and U.S. Small Business Administration personnel. Prerequisites: Econ 218, Fin 300, Mgmt 340, Mgmt 350, Mktg 360, and IDS 355.
- 465 Marketing Management. 3 Hours.** Seminar. Development of marketing plans and programs to achieve the firm's marketing objectives. Emphasis on individual and group research and presentation of plans from the perspective of the marketing manager. Business case analysis. Prerequisites: 15 hours of marketing.
- 466 Comparative Marketing Systems. 3 Hours.** 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. Prerequisites: Mktg 360 or consent of the instructor. Business administration students must have declared a major.

**469 International Marketing. 3 Hours.**

How firms sell across international frontiers; problems of product modification, pricing, intercultural communication, preparation for shipment, documentation. Focuses on small firms and multinational corporations. Prerequisite: Mktg 360 or consent of the instructor.

**473 The Personal Selling Effort in Marketing. 3 Hours.**

Analysis of selling strategies and tactics in different situations, problems of managing sales force. Emphasis will be placed on applications of the behavioral sciences. Prerequisite: Mktg 461 or consent of the instructor.

**474 Advertising and Sales Promotion. 3 Hours.**

The management, planning, creation, evaluation, and use of advertising and sales promotion. Prerequisite: Mktg 461 or consent of the instructor.

**475 Product Management. 3 Hours.**

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. Prerequisites: Mktg 462 or consent of the instructor.

**476 Industrial Marketing. 3 Hours.**

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: Mktg 360 or consent of the instructor.

**494 Special Topics in Marketing. 3**

**Hours.** Intensive study of selected problems. Reading assignments from scholarly and professional journals, emphasis on covering relatively few areas in great depth. Prerequisite: Business administration students must have declared a major.

**499 Independent Study in Marketing. 3**

**Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Topic and research methodology is to be determined by consultation with the instructor. Prerequisites: Major in marketing. Consent of the head of the department and the instructor must be obtained prior to registration.

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# College of Education

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## **3145 Education, Performing Arts, and Social Work Building (312) 996-4532**

**Dean:** Victoria Chou.

**Associate Dean for Academic Affairs:** Celina Sima.

**Associate Dean for Student Affairs:** Joyce Eisen.

**Associate Dean for Administration:** Alex Swenson.

**Executive Director, Council on Teacher Education:** Connie Bridge.

**Certification Officer:** Lisa Jones.

**Director of Elementary Education:** William Teale.

**Coordinator of Secondary Education:** Cynthia Hynd.

**Academic Advisers (for Elementary Education only):** Marietta Giovannelli, Jennifer DeLago.

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The College of Education offers a program leading to a 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 is 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; continual opportunities to study multiculturalism, bilingualism and cross-cultural issues, issues related to students with disabilities, fine arts, and technology; and work in multiple sites and communities for learning.

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 Specialization, 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 30 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

The Basic Skills Test must be passed prior to applying for candidacy in the teacher education program. The Content Area Test must be passed before the candidate is allowed to student teach (Effective Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (Effective October 1, 2003). These tests are administered and monitored by the state of Illinois. The candidate is responsible for meeting this requirement. The candidate should check with his or her advisor or the Council on Teacher Education (3015 EPASW) for information concerning the tests. Registration materials and study guides may be picked up from the Council on Teacher Education or may be downloaded from the Illinois State Board of Education website [www.isbe.net/teacher](http://www.isbe.net/teacher).

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 2000-2002. During the academic year 2000-2001, UIC program completers had a 97% pass rate on the Basic Skills Test and the Content Area Tests. During 2001-2002, UIC program completers had a 98% pass rate on the two required exams. For both years, the statewide pass rate on the required exam was 98%.

Teacher education candidates must be citizens of the United States to be eligible for an Illinois teaching certificate or become a citizen within six years of receiving a teaching certificate. Please note that, in some cases, the state of Illinois will not issue a teaching certificate to an individual who has been convicted of a criminal offense. A candidate who has been convicted of an offense, should notify his or her advisor immediately.

## State Teacher Certification

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### **Accreditation**

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. Teacher education students at the university must submit their applications for the Illinois teaching certificate to the Council on Teacher Education at the completion of their preparation programs.

Prior to certification, the candidate must also pass a series of examinations required by the Illinois State Board of Education.

## Bachelor of Arts in Elementary Education

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### **Requirements for Admission**

All students entering the University of Illinois at Chicago as freshmen who wish to pursue a degree in elementary education must first enroll in the pre-elementary education curriculum 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 30 semester hours of specific coursework 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 30 semester hour requirement. Because admission to the elementary education program is highly competitive and space is limited, the College strongly

recommends that students in the pre-elementary education curriculum meet with their advisors in the College of Education, Office of Student Services, on a regular basis.

The College of Education accepts applications for the Elementary Education program for the fall term only, and applications are due in the spring semester. (Please consult the University of Illinois at Chicago Undergraduate Application for deadline dates.) 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, 1040 W. Harrison, MC 147, room 3145 EPASW, Chicago, Illinois 60607-7133. Formal coursework in elementary education begins in the fall semester of the sophomore year.

**Admission requirements include:**

1. A **minimum** cumulative Grade Point Average (GPA) of 3.50 (A= 5.00) at time of application. Courses that receive a grade lower than a "C" will not be applied to the requirements.
2. Completion of a **minimum** of 30 semester hours of course work is required by the College of Education at time of application.
3. Completion of the College of Education Request for Admission Form.
4. 50 Service Learning Hours completed by time of application  
- Acceptable service learning hours will include work with school-aged children.
5. Submission of one (1) Letter of Recommendation written by the supervisor of the service learning hours.

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 entry into the pre-elementary education curriculum in the College of Liberal Arts & Sciences. Students must meet eligibility requirements set by the College of Liberal Arts & Sciences. Please refer to the College of Liberal Arts & Sciences information section.

### **Phase II - Admission to the College of Education**

Sophomore Entry

Factors reviewed for admission:

High school performance

Supplementary materials to be sent to the College of Education

- Request for admission to the College of Education
- Description of service learning hours
- Recommendation letter based on service learning hours

UIC academic performance

- Overall GPA: minimum of 3.50/5.00
- Minimum 30 semester hours of LAS courses

### **Phase III-Admission to Elementary Education Candidacy**

Junior entry

Factors reviewed for admission to candidacy:

UIC academic performance

- Overall GPA: minimum 3.50/5.00
- COE GPA: minimum 4.00/5.00
- Minimum 45 semester hours of LAS courses completed

Fieldwork performance

- Minimum of 40 hours completed with satisfactory progress
- Reflective journals related to fieldwork completed with satisfactory progress
- Writing sample about fieldwork

Sophomore year draft of teaching philosophy completed with satisfactory progress

- Passing Score on Illinois Basic Skills Test.

### **Phase IV-Admission to Student Teaching**

Senior entry

Factors reviewed for admission:

UIC academic performance

- Overall GPA: minimum 3.50/5.00
- COE GPA: minimum 4.00/5.00
- No LAS general education courses remaining to complete

Fieldwork performance

- Minimum of 100 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 of Illinois Elementary Education Subject Matter Test prior to student teaching (ED 450) - (Effective Fall 2004)

Passing of Assessment of Professional Teaching (APT) Test - (Effective October 1, 2003)

### **Phase V- Recommendation to Entitlement to Certification**

Completion of Program

Factors reviewed for entitlement to certification:

- Satisfactory completion of all course work and fieldwork
- Passing Illinois Basic Skills Test
- Passing Elementary Education Subject Matter 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)

## **Academic Advising**

During the first year of the program, students completing the pre-elementary education curriculum should consult advisors in the College of Education. Students admitted to the College of Education

are assigned an advisor, are required to meet with their advisor each semester, and must have approval of their advisor to register for courses. Advisors are located in the College of Education, Office of Students Services, room 3145 EPASW, (312) 996-4532.

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.

## Ongoing Assessment of Professional Growth

In an effort to support professional growth, all students will be assessed throughout the program according to UIC Elementary Education principles. The UIC Elementary Education 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 system of assessments works, are explained at the program orientation and incorporated into all classes and fieldwork requirements.

All students 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 Illinois Professional Teaching Standards.

## Graduation Requirements: Course Work

A minimum of 126 semester hours acceptable to the College of Education, a minimum cumulative grade point average of 3.50/5.00 (see Additional Graduation Requirements in this section) and a minimum cumulative grade point average of 4.00/5.00 in courses in the professional course sequence are required for graduation. A student must complete the basic course 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 re-enrollment. 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.

For the Bachelor of Arts in Elementary Education, at least 126 semester hours are required (see Area of Specialized section for total hours required); distribution between general education course work and professional education course work is required.

## General Education Required Course Work

	Hours
<b>Communications Skills</b>	
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
<b>Humanities Electives</b>	
—Literature	3
—Philosophy	3
<b>Social Sciences</b>	
Psch 100 —Introduction to Psychology	4
One of the following two courses:	3
Hist 103 —American Civilization to the Nineteenth Century	
Hist 104 —American Civilization Since the Late Nineteenth Century	
<b>Natural Sciences</b>	
NatS 101 —Physical World	4
NatS 102 —Chemical World	4
NatS 103 —Biological World	4
NatS 104 —Project-Based seminar in Natural Sciences	1
<b>Mathematics</b>	
Math 140 —Arithmetic and Algebraic Structures	4
Math 141 —Algebraic and Geometric Structures	4
<b>Total Hours - General Education</b>	<b>40</b>

### Area of Specialization (Hours vary)

**15-24**

The total number of semester hours required for the degree will vary from 126 to 135 depending on the Area of Specialization elected by the student. Additional information about the Area of Specialization is available by contacting the College of Education, Office of Students Services, room 3145 EPASW, (312) 996-4532.

The specialization provides students with the opportunity to choose an area in which to gain special and unique strength. Students will choose their specialization from the areas listed below:

- African-American Studies (15 hours)
- Cultural and Social Studies (15 hours)
- English (Language Arts) (15 hours)
- History and Social Studies (15 hours)
- Latin American and Latino Studies (15 hours)
- Mathematics (18 hours)
- Natural Sciences (19 hours)
- Bilingual (20 hours)
- English as a New Language (20 hours)
- Bilingual and ENL (24 hours)
- Special Education (15 hours)

### The following guidelines must be followed:

1. Areas of Specialization require specific courses; and you must follow the guidelines of the area that you elect.
2. The specialization may not include a general studies course.
3. The Specialization must be chosen from an approved list of Specializations (available in the College of Education Office of Student Services) during the freshmen or early

sophomore year. Please consult the College of Education advisor.

4. Every student must seek approval of the chosen Specialization and the intended course work from an academic advisor in the College Office of Student Services before completing more than 3 semester hours in the Specialization

## Foundational Studies in Education Required Course Work

	Hours
ED 256 —Multiculturalism in Teaching and Learning	3
ED 258 —Bilingualism/Cross Cultural Issues in Elementary Schools	3
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
<b>Total Hours - Foundational Studies</b>	<b>18</b>

## Professional Education Required Course Work

	Hours
ED 250 —Teaching and Learning in Schools I	1
ED 251 —Teaching and Learning in Schools II	1
ED 257 —Foundations of Literacy Learning and Teaching	3
ED 340 —Teaching Language and Literacy in Primary Grades	3
ED 341 —Teaching Language and Literacy in Intermediate/ Middle Grades	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 Arts 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
<b>Total Hours - Professional Education</b>	<b>53</b>
<b>Total Hours - Undergraduate Minimum</b>	<b>126-135</b>

## Elementary School Teaching

Student teaching is completed in the first semester of the senior year. Minimum requirements for student teaching include senior standing, 4.00/5.00 grade point average in the foundational education course work and the professional education course work; 3.50/5.00 grade point average 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 grade point

average; 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 250, EPSY 255, ED 256, ED 257, ED 251, ED 258, ED 340, ED 350, ED 341, ED 342, ED 352, SpED 415, SpED 416, ED 351, ED 343, ED 344, ED 353.

## Bilingual/ENL Approval

Students enrolled in the elementary education program may choose Bilingual/ENL as the area of specialization to earn approval as a bilingual and/or English as a New Language teacher. Information about the Bilingual/ENL 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 Bilingual/ENL 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.

## Additional Graduation Requirements

*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

In addition to completing major course requirements, students in the College of Education must also satisfy other graduation requirements listed below.

### Hours Required for Graduation

For the degree of Bachelor of Arts in Elementary Education a minimum of 126 semester hours of credit, exclusive of military science, acceptable to the College of Education is required for graduation.

Course work that duplicates previous credit does not count toward graduation, and no credit is given for a course in which a failing grade is received.

### Residence Requirement

Either the first 90 or the last 30 semester hours of degree work must be completed in continuous, uninterrupted residence at the University of Illinois at Chicago. 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 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.

## Advanced Hour Rule

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.

## Grade Point Average

To be eligible for graduation a student must have earned a cumulative grade point average of 3.50/5.00 in all general education course work and a cumulative grade point average of 4.00/ 5.00 in the education major.

## Declaration of Graduation

A declaration of graduation should be filed in the College of Education Office of Student Services, 3145 EPASW, during the first two weeks of the semester in which the student intends to graduate.

## Academic Honors

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### 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 4.50/5.00 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 pass/fail basis, a grade of "P" must be earned. A cumulative grade point average of 3.50/5.00 for 60 hours and above as well as clear academic status must be maintained for Dean's List eligibility.

### Graduation with 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 this 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 4.50 (A=5.00). 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 4.75 (A=5.00). The cumulative grade point average includes all transfer credit and work completed at UIC.

## Scholarships, Prizes, and Recognition

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Students in the College of Education may be eligible for special awards and scholarships in addition to those available through the Office of Student Financial Aid. For more detailed information, please consult the *Scholarships, Prizes, and Awards of Recognition* in the *Financial Aid* chapter of this catalog.

## College Policies, Rules, and Regulations

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### Study Loads

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 your academic advisor in the Office of Students Services, room 3145 EPASW.

### Change of Program

Program changes may be made during certain periods of registration. In addition, courses may be added and sections changed during the first two weeks of the semester or the first five days of the summer session. Courses may be dropped during the first six weeks of the semester or the first five weeks of the summer session. Courses dropped after the first two weeks of the semester or the first five days of the summer session will be assigned a "W" (withdrawal).

### 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.

### Change of College

Students wishing to transfer from the College of Education to another college should follow the procedures of the other college. Students wishing to transfer from another college must apply for admission. Please consult the section entitled *Admission to the College of Education*. Application information on applying may also be obtained from the Office of Student Services, Room 3145 EPASW.

### Pass/Fail Option

None of the required courses taken in the College of Education may be taken on the pass/fail option.

### Probation and Drop 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 and/or cumulative grade point average is less than 3.50 is placed on probation. The cumulative grade point average includes all transfer credit and work completed at UIC.

## Drop Rules

1. A student whose grade point average in any term is below 2.00/5.00 will be dropped.
2. A student who fails to meet the terms of probation or is on probation for two consecutive terms will be dropped.
3. A student who is dropped 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 dropped. 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 4.00 (A=5.00) grade point average in the education major, or inadequate professional performance as judged by Elementary Education faculty.

## 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.

## Registration

To be eligible to register or change a program, a College of Education student must secure written approval from the College of Education academic advisor in the Office of Student Services, room 3145 EPASW.

## 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. Further information is available in the College of Education Office of Student Services, 3145 EPASW.

## 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.

### Phases in the UIC Secondary Teacher Education Programs

After admission to the university, students who wish to teach at the secondary school level should complete the following phases.

#### Declaration of secondary teacher education major in a program in student's home college:

Students should see the academic advisor in their teaching field to declare their intention to major in teaching in their content field.

- This declaration allows students to enroll in Ed 200 and Ed 210, core education courses required for certification. Admission into a "Teaching of ..." curriculum is required for admission into these courses.

- Students must also pass the *Illinois Basic Skills Test*. Application forms and study guides may be obtained in the Council on Teacher Education in room 3015 of the EPASW building or online at [www.isbe.net/teachers](http://www.isbe.net/teachers).

### Admissions to Candidacy for teacher certification:

After students have completed 45-60 hours of college-level coursework, including specific courses as determined by each department, students may apply for candidacy. Requirements for admission include:

1. a cumulative GPA of 3.50/5.00 or greater and a major GPA of at least 3.50/5.00. Some programs have a higher minimum GPA requirement in the major.
2. a recorded pass on the Illinois Basic Skills Test.
3. a completed application to candidacy form obtained from the Council on Teacher Education.
4. a criminal background check (see the Council on Teacher Education for details).
5. additional materials may be required by individual programs.

### Admission to student teaching:

To be eligible for student teaching, candidates must have

1. completed general education coursework; earned a minimum cumulative GPA of 3.50/5.00 in all course work including transfer credits; completed professional education requirements with a minimum GPA of 4.00/5.00; and completed coursework in their teaching field with a GPA as specified in their program.
2. completed a minimum of 100 clock hours of fieldwork as part of the program and professional education coursework.
3. passed the Illinois Content Area Test in their teaching field if they will student teach after July 1, 2004. Students who complete student teaching prior to July 2004 must pass the Content Test prior to certification but not before student teaching.
4. submitted a student teaching application during the spring term of the academic year preceding the student teaching experience.
5. submitted verification of a negative TB test.
6. 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 during the first two weeks of the semester in which the student intends to graduate.

To be eligible for graduation, candidates must have:

1. completed student teaching with a grade of B or higher.
2. completed all coursework in the teaching area, teaching methods, education methods, and general education to meet requirements for university graduation and for state certification.
3. completed a student teaching portfolio (assessed by each program).

### Certification:

To become certified, candidates must:

1. meet all requirements for graduation in their home college.

2. complete and file a certification application and any related endorsement requests with the Council on Teacher Education.
3. pass the Illinois Assessment of Professional Teaching (applies to applications for certification after July 1, 2003).

## Requirements for Curricula for Teaching in Secondary Schools

### General Education Course Work

Students should pursue the general education coursework required for an undergraduate degree in their chosen program of study. For example those who are pursuing teacher certification in a program within the College of Liberal Arts and Sciences must meet the general education requirements for that college. When there is a choice of classes a student may take to meet a requirement in a given area, some programs may request that students take a particular class that is more applicable to the teaching profession. Students should work with their advisors to determine which classes they should take to meet the general education requirements.

### Professional Education Course Work

	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 Methods course in the major field of study <i>Refer to the appropriate area of specialization in this catalog to determine major requirements.</i>	3
Student Teaching	16

### Coursework in Major Field of Study

Teacher candidates must also complete coursework in their major field of study. Because secondary teacher education majors are working toward fulfilling requirements for both the bachelor's degree and the Illinois teaching certificate (grades 6 through 12), it is critical that the candidates seek advising from the academic advisor in the major field of study. Programs may require students who wish to teach in their major field to take particular major field courses that are more suited to teachers than other choices within the major.

### Secondary School Student Teaching

Note the eligibility requirements listed previously for student teaching (See section entitled *Admission to Student Teaching*). In the semester prior to student teaching, candidates should enroll in Ed 330, Curriculum, Instruction, and Evaluation in Secondary Schools, and a methods of 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 advisors and should plan well in advance for these final two semesters in their program.

Application for secondary school student teaching must be made during the spring term of the academic year preceding the student teaching experience. For more information regarding application procedures, contact the Council on Teacher Education, 3015 EPASW. An orientation meeting is held early in the student teaching term by the Council on Teacher Education, program faculty, and staff. During the teaching term, the student attends a weekly seminar held on campus.

### Middle School Endorsement

Teacher candidates wishing to teach in the middle grades (5 through 8) should take additional coursework, 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 coursework 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 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 (effective Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (effective October 1, 2003). 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.

**Important Note:** The Illinois State Board of Education occasionally changes the requirements for certification. For current information, contact the academic advisor in the major field of study or the Council on Teacher Education.



# Education Courses

## Curriculum, Instruction, and Evaluation (CIE)

- 414 Middle and High School Literacy. 3 Hours.** This course focuses on the teaching of reading and writing strategies appropriate for disciplinary learning and expression. Prerequisites: Junior standing or above and consent of the instructor.
- 415 Urban Youth Fieldwork. 3 Hours.** May be repeated for a maximum of 6 hours of credit. 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. Prerequisites: Junior standing or above and consent of the instructor. Requires interview and placement.
- 416 Programs for Underserved Youth. 3 Hours.** 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. Prerequisites: Junior standing or above and consent of the instructor.
- 464 Bilingualism and Literacy in a Second Language. 4 Hours.** 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: Junior standing and admission to the College of Education or consent of the instructor.
- 472 Language Proficiency Assessment and ESL Instruction. 4 Hours.** 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: Junior standing.
- 480 Technology and Multimedia: Learning Tools in the Classroom. 3 Hours.** Same as Special Education 480. New technologies to support teaching and learning in pre-college classrooms.
- 481 Foundations and Current Issues in Educating English Language Learners. 4 Hours.** Philosophical, theoretical, sociocultural, and educational examination of learning and achievement issues that culturally and linguistically diverse students face in American schools. Field work required. Prerequisite: Junior or graduate standing.
- 482 Assessment and Instruction: A Multilingual/Multicultural Perspective. 4 Hours.** 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: Junior standing.
- 483 Methodology of TESOL. 3 Hours.** Same as Linguistics 483. Methods of teaching listening, speaking, reading, and writing to speakers of English as a second or foreign language. Prerequisite: Junior standing and consent of the instructor.

- 484 Curriculum and Instruction in the Middle School. 3 Hours.** Philosophy, curriculum, and instructional methods for teaching middle grade students (grades five through eight). Content area reading is included. Prerequisites: Approval of the College of Education; and both Ed 200 and 210; or graduate standing and either Ed 402 or 403, and either Ed 421 or 422 or 445, and either Ed 430 or 431.
- 494 Special Topics in Curriculum, Instruction and Evaluation. 1 to 4 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Exploration of an area not covered in existing course offerings. Content varies. Prerequisite: Consent of the instructor.

## Education (Ed)

- 135 Child and Youth Policies in Urban America. 3 Hours.** 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.
- 194 Special Topics in Education. 1 to 4 Hours.** May be repeated for credit if topic is different for each registration. Students may register for more than one section per term. Introductory exploration of a topic not covered in existing course offerings. Prerequisite: Consent of the instructor.
- 200 Education Policy Foundations. 3 Hours.** Social, cultural, political, and intellectual forces that influence and shape educational policy in the learning process. Prerequisites: Sophomore standing and approval of the College of Education.
- 210 The Educative Process. 3 Hours.** Psychological factors in learning and instruction. Applications of behavioral psychology, information processing, humanism, and cognitive developmental theory. Issues in special education. Prerequisite: Approval of the College of Education.
- 211 Special Topics in Education. 1 Hour.** May be repeated for a maximum of 4 hours of credit with approval of the College. Satisfactory/Unsatisfactory grade only. Topics vary. Prerequisite: Membership in the Honors College or approval of the College of Education.
- 250 Teaching and Learning in Schools I. 1 Hour.** 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. Prerequisite: Admission to the College of Education and pre-Elementary Education standing necessary. Concurrent registration in ED 255, ED 256 and ED 257 required.
- 251 Teaching and Learning in Schools II. 1 Hour.** 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. Prerequisite: Admission to the College of Education and pre-Elementary Education standing necessary. Concurrent registration in ED 257 and ED 258 required.
- 256 Multiculturalism in Teaching and Learning. 3 Hours.** This course aims to provide prospective teachers with information and experiences for understanding teaching and learning in culturally diverse settings. Prerequisite: Sophomore or junior standing. Minimum of 30 hours LAS coursework completed. Concurrent registration in ED 255 and ED 257 required.
- 257 Foundations of Literacy Learning and Teaching. 3 Hours.** 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: Sophomore or junior standing. Minimum of 30 hours LAS coursework completed. Admission to the College of Education. Concurrent registration in English Composition, a Humanities course, and ED 255 and ED 257.
- 258 Bilingualism and Cross-Cultural Issues in Elementary Schools. 3 Hours.** Provide prospective teachers with an introduction to the key issues, concepts, and skills related to effective instruction of linguistically and culturally diverse students. Prerequisite: Grade of B or better in ED 255 and ED 256 and ED 257; and completion of the English Composition requirement; and sophomore standing or above; and approval of the department. Pre-Elementary Education standing
- 294 Special Topics in Education. 1 to 4 Hours.** May be repeated for credit if topic is different for each registration. Students may register for more than one section per term. Introductory exploration of a topic not covered in existing course offerings. Prerequisite: Consent of the instructor.
- 301 Literacy and Elementary Education. 3 Hours.** 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. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.
- 305 Introductory Fieldwork in Elementary Education. 3 Hours.** The first field-based course in a sequence, focusing on observing and recording educational environments and children as learners. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.
- 311 Reading and Writing Through the Elementary Grades. 3 Hours.** 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. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.
- 312 Teaching Elementary School Mathematics and Science. 3 Hours.** Issues of curriculum, instruction, and assessment that focus on hands-on science and the integration of science, mathematics, and language arts. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.



- 315 Fieldwork in Elementary Education II. 8 Hours.** The second field-based course is a sequence on curriculum development and teaching in urban schools. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.
- 321 Teaching and Learning for Children of Various Abilities and Cultures. 3 Hours.** 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. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.
- 322 Social Studies and Literature in the Elementary Grades. 3 Hours.** 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. Prerequisites: Admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.
- 325 Student Teaching in the Elementary Grades. 18 Hours.** The final field-based course in a sequence, focusing on improving teaching performance in various classroom settings. Prerequisites: 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.
- 330 Curriculum, Instruction and Evaluation in the Secondary School. 4 Hours.** 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. Prerequisites: Admission to an approved teacher certification program in secondary education, Ed 200, and 210.
- 340 Teaching Language and Literacy in the Primary Grades. 3 Hours.** A detailed description of the knowledge base required for teaching reading and the language arts in kindergarten through grade 3. Prerequisites: Admission to the College of Education and pre-Elementary Education standing required.
- 341 Teaching Language and Literacy in the Intermediate/Middle Grades. 3 Hours.** A detailed description of the knowledge base required for teaching reading and the language arts in grades 4 - 8. Prerequisites: Admission to the College of Education and pre-Elementary Education standing required.
- 342 Teaching and Learning Mathematics in the Elementary School. 3 Hours.** The course is intended to help prospective elementary teachers create a foundation from which they can develop an exemplary mathematics teaching practice. Prerequisites: Math 140 and 141 or equivalents; junior standing or above and a minimum of 45 hours LAS coursework completed.
- 343 Teaching and Learning Science in Elementary School. 3 Hours.** 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. Prerequisites: Junior standing or above.
- 344 Teaching and Learning Social Studies and Arts in Elementary School. 3 Hours.** To examine 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. Prerequisites: Junior standing or above.
- 350 Orchestrating Teaching and Learning I. 4 Hours.** This course provides a 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. Prerequisites: Admission to the College of Education and Elementary Education Candidacy required.
- 351 Orchestrating Teaching and Learning II. 4 Hours.** This course provides a 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. Prerequisites: Admission to the College of Education and Elementary Education Candidacy and concurrent registration in ED 341, ED 342, ED 352, and SPED 415 required.
- 352 Technology Integration in Elementary School I. 2 Hours.** 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: Junior standing or above.
- 353 Technology Integration in Elementary School II. 2 Hours.** 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: Junior standing or above.
- 394 Special Topics in Education. 1 to 4 Hours.** May be repeated for credit if topic is different for each registration. Students may register for more than one section per term. Exploration of a topic not covered in existing course offerings. Prerequisite: Consent of the instructor.
- 396 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. 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. Prerequisites: A written proposal for faculty approval and junior standing.
- 402 Philosophy of Education and Urban School Policy. 3 Hours.** Selected social and education philosophies and their impact on urban school curriculum design, school organization, and control.
- 403 Policy Issues in the History of American Education. 3 Hours.** Political, economic, and cultural influences shaping the development of American education policy; emphasis on issues of education theory and practice in their historical settings.
- 421 Advanced Educational Psychology. 3 Hours.** Examines current theory and research on the teaching-learning process with particular attention to general learning and curriculum-relevant problem-solving skills. Prerequisite: Ed 210 or graduate standing.
- 422 Advanced Developmental Psychology and Educational Processes. 3 Hours.** Same as Psychology 422. Focuses on cognitive and social development from birth to adolescence. Examines relations between development, learning, and educational processes. Prerequisites: Psch 100 and any one from Ed 210, Psch 259, Psch 320; or graduate standing and consent of the instructor.
- 430 Curriculum, Instruction and Evaluation in Education. 3 Hours.** 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: Admission to graduate study in education or consent of the instructor.
- 431 Improving Learning Environments. 3 Hours.** 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: Graduate standing or consent of the instructor.
- 432 Instruction and Evaluation in Secondary Education. 5 Hours.** Instructional planning and curriculum design; strategies for instruction and classroom management; forms of formative and summative evaluation; and professional development issues. Field experience required. Prerequisites: Completion of education core courses in the undergraduate teacher certification program; Ed 200 and 210.
- 445 Adolescence and the Schools. 3 Hours.** Physiological, intellectual, and social development of adolescence. Relations between aspects of adolescent development and the academic and social demands of secondary schools. Prerequisite: Ed 210 or the equivalent, or graduate standing.
- 450 Composing a Teaching Life I. 15 Hours.** This course 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.
- 451 Composing a Teaching Life II/Senior Reflective Seminar. 15 Hours.** This course 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.
- 461 Political and Socio-Cultural Perspectives on Special Education. 3 Hours.** Same as Special Education 461. Students will examine issues of access and equity through legislation, litigation, and socio-cultural perspectives and be introduced to major theoretical frameworks that influence special education programs. Field work required.

**470 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the college. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

**471 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the college. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

**472 Promoting Academic and Prosocial Behavior I. 3 Hours.** Same as Special Education 472. Explores the importance of school-wide and classroom structure and climate in the educational process. Strategies to promote academic success and desired social behavior. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.

**473 Teaching Math and Science with Adaptations. 3 Hours.** Same as Special Education 473. Provides prospective teachers with assessment strategies and a range of adaptations, modifications, and interventions in math and science for students with disabilities. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.

## Educational Psychology (EPsy)

**255 Child Development and Elementary Education. 3 Hours.** The purpose of this course is to assist future teachers in understanding children's academic competence, self-determination, and affiliation needs and learning to help children meet their needs. Prerequisite: Sophomore or junior standing and admission to the College of Education and pre-Elementary Education standing; completion of 30 hours of LAS coursework; and concurrent registration in ED 256 and ED 257.

**360 Learning, Cognition and Student Assessment. 2 Hours.** Research and theory on learning and cognition applied to teaching and assessment of students of diverse cultural backgrounds. Prerequisite: Sophomore standing or above.

**396 Independent Study. 1 to 4 Hours.** Students carry out independent study under the direction of educational psychology faculty member. Prerequisite: Sophomore standing or above and consent of the instructor.

**420 Social Development of Urban Children. 3 Hours.** Same as Psychology 420. General principles of social development and socialization during childhood and the factors common to urban children that illustrate and modify these principles. Prerequisite: Admission to the graduate program in education or psychology, or consent of the instructor.

**429 Constructivist Approaches to Development: Piaget and Vygotsky. 3 Hours.** Same as Psychology 429. Piaget's and Vygotsky's theories of development of knowledge. Empirical and logico-mathematical forms of knowledge. Thought and action. Thought and language. Prerequisites: Graduate standing in education and Ed 422 or the equivalent, or graduate standing in psychology or consent of the instructor.

**446 Characteristics of Early Adolescence. 3 Hours.** Same as Psychology 423. Physiological, social, emotional and cognitive development of early adolescence. The relationship between these developmental characteristics and success in the middle grades. Prerequisites: Admission to the Ph.D. program in psychology; or approval of the College of Education or consent of the instructor, and Ed 210 or 421 or 422 or the equivalent.

**449 History and Philosophy of Early Childhood Education. 3 Hours.** 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: Ed 210 or the equivalent.

**465 Cognitive Development and Disabilities. 3 Hours.** Same as Special Education 465. 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. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.

**466 Language Development, Diversity, and Disabilities. 3 Hours.** Same as Special Education 466. Theory and research on language development in children with disabilities, in the context of typical development. Models for language assessment and intervention. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.

**467 Social and Emotional Development and Disabilities. 3 Hours.** Same as Special Education 467. 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. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.

**482 Forging Collaborations with Family and Community. 3 Hours.** Same as Special Education 482. Develops skills necessary to work in partnership with the families of children with disabilities, and community members. Prerequisite: SPED 461 or the equivalent or consent of the instructor.

**494 Topics in Educational Psychology. 1 to 4 Hours.** May be repeated for a maximum of 12 hours of credit. Seminar on a pre-announced topic focusing on methodology, research and educational implications of recent models of learning, problem solving, and thinking. Prerequisite: Consent of the instructor.

**496 Independent Study Project. 1 to 4 Hours.** Students carry out independent study under the direction of educational psychology faculty member. Prerequisite: Junior standing or above and consent of the instructor.

## Policy Studies (PS)

**361 Social Foundations of Education. 3 Hours.** Cross-disciplinary, critical analysis of relationships between public schools and their urban contexts with attention to implications for teaching and learning. Prerequisite: Admission to the Bachelor of Arts in Elementary Education Certification program.

**453 Topics in Education Policy. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Workshop; emphasis on issues related to school organization, control and community relations. Topics are announced at the time the class is scheduled. Prerequisite: Advanced undergraduate or graduate standing.

## Special Education (SpEd)

**410 Survey of Characteristics of Learners with Disabilities. 3 Hours.** 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: Ed 210 or 421; or graduate standing and consent of the instructor.

**415 Characteristics of Exceptional Learners. 3 Hours.** Extensive computer use and field work required. This course provides a foundation for the understanding of the exceptional learner in an inclusive environment. Prerequisite: Junior standing or above and admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

**416 Methods of Instruction for Exceptional Learners. 2 Hours.** 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: Junior standing or above and admission to the Bachelor of Arts in Elementary Education program and approval of the College of Education.

**424 Assessment of Students with Special Needs. 3 Hours.** Theoretical basis and practical application of standardized and alternative testing of children with learning and behavior difficulties. Prerequisite: SpEd 410.

**426 Curricular and Behavioral Considerations for Learners with Special Needs. 3 Hours.** Instructional practices related to academics, classroom management, individualized and group instruction for students with special needs. Prerequisite: SpEd 424 or the equivalent or consent of the instructor.

**442 Language Development and Disorders. 3 Hours.** Theory and research on the acquisition of phonology, syntax, semantics, and pragmatics in children with and without disabilities. Models for language assessment and intervention. Prerequisite: SpEd 410.

**448 Topics in Special Education. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Course or workshop on preannounced topic on the education of handicapped children, adolescents, or adults. Prerequisites: SpEd 410 and consent of the instructor.

- 461 Political and Socio-Cultural Perspectives on Special Education. 3 Hours.** Same as Education 461. Students will examine issues of access and equity through legislation, litigation, and socio-cultural perspectives and be introduced to major theoretical frameworks that influence special education programs. Field work required.
- 462 Assessment of Individuals with Disabilities. 3 Hours.** To prepare students in the use of formal and informal assessment in making decisions regarding placement, instructional planning, and evaluation of students with disabilities. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 463 Instructional Adaptations in Reading and Writing I. 3 Hours.** Emphasizes the components of designing, implementing, and assessing reading and writing instruction for individuals with disabilities at the elementary level. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 465 Cognitive Development and Disabilities. 3 Hours.** Same as Educational Psychology 465. 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. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 466 Language Development, Diversity, and Disabilities. 3 Hours.** Same as Educational Psychology 466. Theory and research on language development in children with disabilities, in the context of typical development. Models for language assessment and intervention. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 467 Social and Emotional Development and Disabilities. 3 Hours.** Same as Educational Psychology 467. 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. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 471 Curricular Adaptations for Learners with Significant Disabilities. 3 Hours.** This course is designed to address methods of instruction, assessment, planning for instruction, development and evaluation of learning environments, and instructional delivery for students with significant disabilities. Field work required. Prerequisite: SPED 465 and SPED 466 and SPED 467; or consent of the instructor.
- 472 Promoting Academic and Prosocial Behavior I. 3 Hours.** Same as Education 472. Explores the importance of school-wide and classroom structure and climate in the educational process. Strategies to promote academic success and desired social behavior. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 473 Teaching Math and Science with Adaptations. 3 Hours.** Same as Education 473. Provides prospective teachers with assessment strategies and a range of adaptations, modifications, and interventions in math and science for students with disabilities. Field work required. Prerequisite: SPED 461 or the equivalent or consent of the instructor.
- 480 Technology and Multimedia: Learning Tools in the Classroom. 3 Hours.** Same as Curriculum, Instruction, and Evaluation 480. New technologies to support teaching and learning in pre-college classrooms.

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# College of Engineering

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## 123 Science and Engineering Offices

**Dean:** Lawrence Kennedy.

**Executive Associate Dean:** Ishwar Puri.

**Associate Dean:** Krishna C. Gupta.

**Assistant Dean:** Catherine Kozuch-O'Brien.

**Director of Minority Affairs:** Denise R. Hayman.

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**(312) 996-3463**

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

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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

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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

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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 English composition. Beginning in the second year, the student will begin 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

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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.

## Departments and Programs of the College

The College of Engineering comprises the following six departments: *Bioengineering*, *Chemical Engineering*, *Civil and Materials Engineering*, *Computer Science*, *Electrical and Computer Engineering*, and *Mechanical and Industrial Engineering*.

## Degree Curricula

The College of Engineering offers several undergraduate degree curricula, all of which require 128 semester hours of credit for completion. There are ten majors leading to a Bachelor of Science degree. All programs are administered by the department as indicated in the following table:

Department	Major
Bioengineering Department	Bioengineering <sup>a</sup>
Chemical Engineering Department	Chemical Engineering <sup>a</sup>
Civil and Materials Engineering Department	Civil Engineering <sup>a</sup>
Computer Science Department	Computer Science ( <i>includes an Option in Computer Systems</i> ) <sup>b</sup>
Electrical and Computer Engineering Department	Electrical Engineering <sup>a</sup> Computer Engineering <sup>b</sup> Engineering Physics ( <i>offered jointly with the Department of Physics</i> )
Mechanical and Industrial Engineering Department	Mechanical Engineering <sup>a</sup> Industrial Engineering <sup>a</sup> Engineering Management ( <i>offered jointly with the College of Business Administration</i> )

<sup>a</sup> These majors are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (ABET)

<sup>b</sup> Accredited by the Computing Accreditation Commission of ABET.

In addition to the majors above, the college also offers minors in the areas of bioengineering, chemical engineering, civil engineering, computer engineering, computer science, electrical engineering, environmental engineering, industrial engineering, materials engineering, and mechanical engineering, as well as an international studies concentration. See *Engineering Minor Fields of Specialization and Concentration* for additional information.

## Admission to the College

### Admission Requirements

Students seeking admission to the College of Engineering who are recent high school graduates or who have earned less than 24 semester hours (36 quarter hours) of credit at another collegiate institution are classified as new freshmen and must meet the entrance requirements to the college that are specified for new freshmen. (See *Admission Requirements and Application Procedures*.) The College of Engineering recommends that each new freshman complete a strong high school mathematics curriculum that includes algebra, geometry, and trigonometry

(Pattern II). Admission decisions are based upon class rank and ACT scores. The college will give admission priority to residents of the State of Illinois. Applicants who are not residents of the State of Illinois may be admitted only after review by the college.

### Transfer Student Admission Requirements

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 Residence Status for Admission and Assessment of Student Tuition*). A minimum of 60 semester hours (90 quarter hours) of transfer work is required for admission. The college will consider residents of the State of Illinois who have a transfer grade point average (GPA) of at least 3.50 (A=5.00); or 2.50 (A=4.00). Out-of-state residents must have a minimum transfer GPA of 3.50 and international students must have a minimum transfer GPA of 3.75 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 before being considered for admission to the College of Engineering:

1. English composition (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 section *Office of Admissions and Records* for application deadline dates and other procedures for transfer students.

### Advising

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.

### Placement Tests

#### Freshman Students

The College of Engineering requires all new students, classified as freshmen, to participate in the Pre-enrollment Evaluation Program placement tests. This series of tests is designed to help the student make appropriate course and educational choices and career plans. The Pre-enrollment Evaluation Program consists of the following tests: academic skills, composition, mathematics, and chemistry. Those students whose mathematics preparation is not adequate are required to take preparatory courses. The preparatory courses cannot be applied for credit toward a degree.

Students may receive credit for college-level courses taken in high school, in which case they are excused from the corresponding placement tests.

## Graduation Requirements

*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

All majors in the college require the completion of at least 128 semester hours for the Bachelor of Science degree. The majors, the hours required for graduation, and the courses required in them are described on subsequent pages of this section; these typically highlight, or are in addition to, the university *Graduation Requirements and Academic Regulations*.

### Common First-Year Program

All of the majors require certain courses for the baccalaureate degree. Listed below is the core curriculum common to all majors. The student should consult an individual major to determine the specific courses required and their recommended placement in the curriculum.

#### First-Year Program

	Hours
Engineering Orientation <sup>a</sup>	0
English Composition	6
Chemistry <sup>b</sup>	5
<i>Computer Science majors may take Biological Sciences or Earth and Environmental Sciences.</i>	
Mathematics <sup>c</sup>	10
Physics	4
<i>Computer Science majors may take Biological Sciences or Earth and Environmental Sciences.</i>	
Engineering/computer course	3
Humanities-social sciences electives	0-6
<b>Total Hours</b>	<b>28-34</b>

<sup>a</sup> Engr 100 carries one equivalent hour, which counts in the calculation of tuition and toward full- or part-time enrollment status and financial aid eligibility. Does not carry credit towards graduation. Must be taken in the first or second term at UIC.

<sup>b</sup> 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.

<sup>c</sup> 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.

Any questions pertaining to course requirements should be directed to the college office, Room 123 SEO.

### Humanities and Social Sciences Requirements

To satisfy the degree requirements of the College of Engineering, students are required to take 6 semester hours of humanities courses selected from two different departments, and 6 semester hours of social sciences courses from two different departments. Courses that fulfill this 12-hour requirement must be selected from the *Course Distribution Requirements Chart under the College of Liberal Arts and Sciences*. In addition, all students (other than Computer Science majors) are required to take 6 semester hours of electives outside their major rubric; Computer Science majors are required to take 18 semester hours of humanities/social science/art electives. The college will also accept as humanities and social sciences credit certain interdisciplinary Honors courses not on this list that have been recommended by the Honors College and approved by the College of Engineering.

Courses treating subjects such as accounting, industrial management, finance, personnel administration, introductory language, and military science cannot be used to satisfy the requirements in humanities and social sciences. However, such courses may be taken as free electives or electives outside of the major rubric. Students should also note that English 160 and 161 (required for graduation) are not accepted for humanities credit. Independent study courses are not accepted as humanities or social science credits.

### Cultural Diversity Requirement

All students are required to successfully complete an approved course in cultural diversity for graduation. This course may also partially satisfy one of the general education requirements in the humanities or social sciences. A list of approved cultural diversity courses can be found in the *College of Liberal Arts and Sciences* section of this catalog.

### Free Electives

Each student must complete a certain number of free elective courses, depending on the particular major. These courses may be technical or nontechnical. A maximum of 2 semester hours of free elective credit in kinesiology is allowed.

### Additional Graduation Requirements

In addition to completing a core curriculum, the humanities and social sciences requirements, the free electives, and the major, a student in the College of Engineering must also satisfy the additional graduation requirements listed below.

### Hours Required for Graduation

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, and no credit is given for a course in which a failing grade is received.

Credit earned in English 150, 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 non-major 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 0-level courses); and in determining probation, drop, and Dean's List statuses.

### Residence Requirement

Either the first 90 or the last 30 semester hours of degree work must be completed in continuous, uninterrupted 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. 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 residence requirement.

### **Limitation on Transfer Credit from a Junior College**

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 *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.

### **Grade Point Average**

In order to receive a degree from the College of Engineering, a student must present a minimum grade point average of 3.00 (A=5.00) in all work in the major. In addition, the student must satisfy the University requirement of a 3.00 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**

A request for a graduation check should be filed in the college office, Room 123 SEO, by the 9th week of the semester prior to the intended semester of graduation (5th week for prior Summer term). A declaration of intent to graduate should be filed by the 10th day of the intended semester of graduation (5th day for intended Summer term).

## **Engineering Minor Fields of Specialization and Concentration**

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Although a minor is not required, a student may elect to complete one or more minor fields of specialization. The College of Engineering will acknowledge, on a student's transcript, the successful completion of a minor field of specialization offered by any Engineering program in the college for which the student is eligible to enroll and which meets the *Requirements for the Minor* listed below. The number of semester hours required for the minor varies by the field of specialization.

### **Requirements for the 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 3.00 (A=5.00) is required.

Minor fields of specialization offered by the College of Engineering include:

- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

See the appropriate engineering program for a detailed description of each minor. Engineering minor fields of specialization 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 field of specialization. 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 Room 123 SEO and obtain approval.

### **Engineering Minors for Non-Engineering Students**

Non-engineering 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 Room 123 SEO and obtain approval. Non-engineering students must also consult their home colleges about the acceptability and applicability of engineering course credit toward their degrees. Most engineering classes are closed to non-engineering students.

### **Minor Areas of Specialization Outside of Engineering for Engineering Students**

Engineering majors may complete one or more minor areas of specialization offered by other UIC colleges. Successful completion of a minor area of specialization outside the College of Engineering will be acknowledged on the Engineering student's transcript. Engineering students must submit a request form in Room 123 SEO and obtain approval before petitioning to another college.

### **Area of Concentration**

The College of Engineering offers an International Studies Concentration. Interested students should consult the separate section for the concentration listed in the College of Engineering area of this catalog.

## **Special Programs and Opportunities**

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### **Cooperative Engineering Education Program**

The College of Engineering offers a cooperative engineering education program that 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 from the college office.

### **Pre-Medicine Studies**

Students who want to apply for admission to the College of Medicine at the University of Illinois at Chicago must have a bachelor's degree which may be from the College of Engineering. A premedical program should include the following minimum science preparation.



	Hours
<b>Requirements</b>	
BioS 100, 101	10
(Chem 112 and 114) <i>or</i> (Chem 116 and 118)	10
Chem 232, 233, 234	9
Math 121 <i>or</i> 180	5
Phys 141 <i>and</i> 142	8

The UIC College of Medicine also expects that candidates will have completed the following, in addition to the courses listed above:

1. Three semesters of social science courses with an emphasis in the behavioral sciences. A minimum of two semesters must be a sequence within the same department, and one additional semester within the social sciences.
2. At least one of the following courses: *advanced level biology, biochemistry, physiology, mammalian histology, comparative vertebrate anatomy, or molecular genetics.*

In addition to the course work listed above, applicants to the College of Medicine must take the Medical College Admissions Test (MCAT) and apply for centralized application service (AMCAS) sponsored by the American Association of Medical Colleges. The MCAT should be taken after completion of the minimum premedical course requirements.

The premedical program described above includes the minimum courses recommended 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.

### Degree Programs Affiliated with Other Colleges

The College of Engineering offers two degree programs that are affiliated with other colleges on the campus: the Bachelor of Science in Engineering Management (offered jointly with the College of Business Administration), and the Bachelor of Science in Engineering Physics (offered jointly with the College of Liberal Arts and Sciences). A description of these programs is included elsewhere in the College of Engineering portion of this catalog. These two programs are not accredited by ABET.

### Professional and Honor Societies

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 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.

### The Minority Engineering Recruitment and Retention Program

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 under represented 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 University's College of Engineering. Further information may be obtained by calling (312) 996-2201.

### Study Abroad

Through the UIC Study Abroad Office, students in the College of Engineering can select from one of more than 60 programs in over 30 countries. Eligible students may participate in a summer, semester, or year-long academic experience. Many programs also offer internship opportunities. Programs are available at all language levels, and science and engineering courses are available in English. Study abroad may help fulfill requirements for humanities, social sciences and the International Studies Concentration. Students planning to apply Study Abroad credits to their engineering degrees must get prior approval from the College for their proposed course work. Due to accreditation considerations, Study Abroad credits are typically not accepted for courses within the engineering majors. For more information, students may visit the Study Abroad Office, 502 UH, or call (312) 413-7662.

## Academic 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 4.50 (A=5.00) in all UIC course work and in all work offered for the degree. Any student who achieves a grade point average of 4.50 with 12 or more graded hours in any semester is also placed on the Dean's List.

Honors are awarded to a student who earns at least a 4.50 cumulative grade point average; High Honors are awarded to a student who earns at least a 4.75 cumulative grade point average; Highest Honors are awarded to a student who earns at least a 4.85 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 kinesiology 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.

## College Policies, Rules, and Regulations

### Admission to the Major

All students entering the College of Engineering must declare a major in order to be assigned a departmental adviser.

## Full-Time Program

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 Room 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 Room 123 SEO.

## Pass/Fail Option

Certain types of courses may be taken on the Pass/Fail 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 Pass (P) or Fail (F) instead of a letter grade. For information on the college's policy on Pass/Fail, the student should inquire in Room 123 SEO.

## Change of Program

Specific deadlines to add or drop courses are listed in the *Timetable* for each term. In general, students have the first 10 days of each semester (the first 5 days of instruction during the summer term) to add or drop courses. Students can make changes by using the UIC telephone registration system known as UIC Express (312-413-8429) or they may do so online. After the tenth day of instruction, a student may petition to drop a maximum of four courses in their career as late as the sixth week by filing a petition in Room 123 SEO. A student who wishes to drop all courses must withdraw from the University. Information on university withdrawal is available in the *Timetable* and in Room 123 SEO.

Changes to the degree programs are handled through petitions. A General Petition is required for changes in the non-major part of a degree program, and a Petition for Modification of Major is required for changes within the major component of the program. These 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.

## 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, Room 123 SEO.

## Change of College

Since procedures for changing colleges differ among the undergraduate colleges, a student should inquire in Room 123 SEO for proper instructions. 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 *Transfer Student Admission Requirements* described earlier.

## Probation and Drop Rules

### Probation Rules

1. Any student whose University of Illinois cumulative grade point average falls below 3.00 (A=5.00) is placed on 3.25 academic probation. A student on 3.25 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 3.00.
2. Any student whose average for any term falls below 3.00 but whose UIC cumulative grade point average is above 3.00 will be placed on 3.00 academic probation for the following term. The student will return to clear status if a grade point average of at least 3.00 is earned without any grade less than "C" in the following term.

### Drop Rules

1. A student on academic probation who does not meet the probationary requirements will be dropped from the University.
2. A student who fails to make progress toward a degree may be dropped. Examples of failure to make progress include excessive term deficit-points<sup>1</sup>, failure to complete required courses, the accumulation of an excessive number of Incomplete (IN) grades, failure to earn credit in any semester, and failure to maintain a 3.00 average in the major discipline.
3. A student may be readmitted after the first drop 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 drop.

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<sup>1</sup> Credit-hour weighted sum of following values: A= +2, B= +1, C= 0, D= -1, E= -2.

## Scholarships, Prizes, and Recognition

Students in the College of Engineering may be eligible for special awards and scholarships in addition to those available through the Office of Student Financial Aid. For more detailed information consult *Scholarships, Prizes, and Awards of Recognition in the Financial Aid* chapter of this catalog.

# Bioengineering

## 218 Science and Engineering Offices

**Director and Advising Coordinator:** Richard L. Magin.

**Director of Undergraduate Studies:** Bin He

**(312) 996-2335**

## Curriculum in Bioengineering

### *Bachelor of Science in Bioengineering*

The department of Bioengineering offers a program of study leading to the degree of Bachelor of Science in Bioengineering that is accredited by the Engineering Accreditation Board for Engineering and Technology (<http://www.abet.org/>). The department mission statement and the educational objectives for the Bachelor of Science in Bioengineering can be found at the departmental web site (<http://www.uic.edu/depts/bioe/>)

Bioengineering is a rapidly expanding interdisciplinary field that combines tools and methodologies from engineering with the health sciences. Bioengineers strive to understand biological systems, from molecules to whole organisms, from a quantitative and analytical perspective. In doing so, bioengineers enhance our ability to measure, image, repair or replace physiological substances or processes, and can uniquely address challenges at the interface of biology and medicine. Training in this field prepares students for either graduate school, professional programs, or for positions in industry. Exciting career opportunities exist for bioengineers at the B.S. level in the biotechnology, pharmaceutical, and medical device industry as well as in hospitals, federal labs, and environmental agencies. In order to prepare students for careers in bioengineering, the department faculty does research in emerging areas of bioengineering (such as neural engineering, cell and tissue engineering, and bioinformatics), and maintains strong interactions with faculty in the Colleges of Medicine and Pharmacy, the Department of Biological Sciences, and other engineering disciplines. The Bioengineering curriculum includes rigorous training in physiology and engineering fundamentals while building the trademark interdisciplinary repertoire of bioengineering with courses such as artificial organs and bio-optics. Each student must complete a program of required courses in one or more specialized areas (medical imaging, biosensors, rehabilitation engineering) best suited to the student's interest.

Bioengineering at the University of Illinois at Chicago distinguishes itself by offering a curriculum that reflects the contemporary convergence of intensive computation and molecular biology. From this pedagogical premise, the student will encounter educational opportunities that are quantitatively rigorous and yet recognize the significant contributions made by the biological and medical sciences.

### **Required for Bachelor of Science in Bioengineering**

(128 semester hours)

#### **Required Outside of the College of Engineering**

	Hours
Chem 112 —General College Chemistry I	5
Chem 114 —General College Chemistry II	5
Phys 141 —General Physics I (Mechanics)	4
Phys 142 —General Physics II (Electricity and Magnetism)	4
<i>Choose one from the following:</i>	
Phys 244 —General Physics III (Modern Physics) (3)	
Phys 245 —General Physics IV (Heat, Fluids, and Wave Phenomena) (4)	
Math 180 —Calculus I	5
Math 181 —Calculus II	5

Math 210 —Calculus III	3
Math 220 —Introduction to Differential Equations	3
Math 310 —Applied Linear Algebra	3
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
BioS 100 —Biology of Cells and Organisms	5

*Choose one from the following:*

BioS 220 —Mendelian and Molecular Genetics (3)	
BioS 240 —Homeostasis: The Physiology of Plants and Animals (3)	
BioS 352 —Introductory Biochemistry (3)	
BioS 222 —Cell Biology (3)	

*Choose one from the following:*

BioS 430 —Evolution (4)	
BioS 442 —Nerve and Muscle Physiology (4)	
BioS 443 —Animal Physiological Systems (4)	

Humanities electives	6
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*Selected from the Course Distribution Chart in the College of Liberal Arts and Sciences from two different departments.*

Social sciences electives	6
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*Selected from the Course Distribution Chart in the College of Liberal Arts and Sciences from two different departments.*

*One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.*

<b>Total Hours</b>	<b>70</b>
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### **Required in the College of Engineering Outside the Major**

	Hours
Engr 100 —Orientation	0
<i>Engr 100 carries one equivalent hour; does not carry credit towards graduation.</i>	
CEMM 201 —Statics	3
ChE 201/ME 205 —Thermodynamics	3
<i>Choose one from the following:</i>	
CS 107 —Introduction to Programming (4)	
CS 108 —Fortran Programming for Engineers (3)	
<i>Choose one from the following:</i>	
ECE 210 —Electrical Circuit Analysis (3)	
ECE 225 —Circuit Analysis (4)	
<i>Choose two courses from the following:</i>	
CEMM 203 —Strength of Materials (3)	
CEMM 260 —Properties of Materials (3)	
ECE 310 —Discrete and Continuous Signals and Systems (3)	
ECE 347 —Integrated Circuit Engineering (3)	
ME 211 —Fluid Mechanics (3)	

<b>Total Hours</b>	<b>18</b>
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### **Major Course Requirements**

	Hours
BioE 200 —Introduction to Bioengineering	1
BioE 240 —Modeling Physiological Data and Systems	1
BioE 396 —Senior Design I	3
BioE 397 —Senior Design II	3
BioE 430 —Bioinstrumentation & Measurements I	3
BioE 431 —Bioinstrumentation & Measurements I Lab	1
BioE 432 —Bioinstrumentation & Measurements II	3
BioE 433 —Bioinstrumentation & Measurements II Lab	1
BioE 439 —Biostatistics	3
BioE 460 —Materials in Bioengineering	3
<i>Choose one from the following:</i>	
BioE 415 —Biomechanics	3
BioE 421 —Biomedical Imaging	3

BioE 455 —Introduction to Cell and Tissue Engineering	3
BioE 475 —Neural Engineering I	3
BioE 480 —Introduction to Bioinformatics	3
<b>Total Hours</b>	<b>25</b>

### Bioengineering Concentration Area Electives

(12 semester hours)

These latter engineering courses are to be selected in consultation with the adviser, subject to the following restrictions:

1. A minimum of 5 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, and may not exceed 7 total hours.
3. The courses shall relate to each other in such a way as to define an area of concentration, which must be approved by the student adviser.

### Electives Outside Major Rubric

	Hours
Students must complete electives outside the <i>Bioengineering</i> rubric.	3
<b>Total Hours</b>	<b>3</b>

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Course Schedule for the Bioengineering Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
BioS 100 —Biology of Cells and Organisms	5
Engr 100 —Orientation	0
<i>Engr 100 awards no credit towards graduation.</i>	

**Total Hours** **18**

Second Semester	Hours
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Engl 161 —English Composition II	3
Chem 114 —General College Chemistry II	5

**Total Hours** **17**

### SECOND 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
BioE 200 —Introduction to Bioengineering	1
BioS 286 —Biology of the Brain	3

**Total Hours** **14**

Second Semester	Hours
Math 220 —Introduction to Differential Equations	3
Phys 244 —General Physics III (Modern Physics)	3
ECE 210 —Electrical Circuit Analysis	3
CEMM 260 —Properties of Materials	3
BioE 240 —Modeling Physiological Data	1
Humanities or social sciences elective	3

**Total Hours** **16**

### THIRD YEAR

First Semester	Hours
CEMM 201 —Statics	3
Math 310 —Applied Linear Algebra	3
BioS 442 —Nerve and Muscle Physiology	4
Bioengineering/technical electives	6

**Total Hours** **16**

Second Semester	Hours
ChE 201/ME 205 —Thermodynamics	3
ECE 310 —Discrete and Continuous Signals and Systems	3
BioE 460 —Materials in Bioengineering	3
BioE 439 —Biostatistics	3
Humanities or social sciences elective	3

**Total Hours** **15**

### FOURTH YEAR

First Semester	Hours
BioE 430 —Bioinstrumentation and Measurement I	3
BioE 431 —Bioinstrumentation and Measurement Laboratory	1
BioE 396 —Senior Design I	3
Bioengineering/technical electives	6
Humanities or social sciences elective	3

**Total Hours** **16**

Second Semester	Hours
BioE 397 —Senior Design II	3
BioE 432 —Bioinstrumentation & Measurement II	3
BioE 433 —Bioinstrumentation & Measurement II Laboratory	1
BioE 475 —Neural Engineering I	3
Humanities or social sciences elective	3
Elective outside of the major rubric	3

**Total Hours** **16**

## Minor in Bioengineering

For the minor, 12 semester hours excluding prerequisite courses. Students outside the Bioengineering Department who wish to minor in Bioengineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
BioS 100	5
Chem 112, 130	10
CS 101	3
ECE 210	3
Math 180, 181, 210, 220	16
Phys 141, 142	8

**Total Hours** **45**

### Required Courses

BioE 200, 430, 431	5
BioS 442 <i>or</i> 443	4
ECE 310	3

**Total Hours** **12**



# Chemical Engineering

**216 Chemical Engineering Building**

**(312) 996-3424**

**Interim Head of the Department and Advising Coordinator:** Piergiorgio Uslenghi.

## Curriculum in Chemical Engineering

### *Bachelor of Science 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 B.S. 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.

### **Required for the Bachelor of Science in Chemical Engineering**

(128 semester hours)

#### **Required Outside the College of Engineering**

	Hours
Engr 100 —Engineering Orientation	0
<i>Engr 100 carries one equivalent hour; does not carry credit towards graduation.</i>	
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Humanities electives	6
Social sciences electives	6
<i>One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.</i>	
Math 180 —Calculus I	5
Math 181 —Calculus II	5
Math 210 —Calculus III	3
Math 220 —Introduction to Differential Equations I	3
Phys 141 —General Physics I (Mechanics)	4
Phys 142 —General Physics II (Electricity and Magnetism)	4
Chem 112 —General College Chemistry I	5
Chem 114 —General College Chemistry II	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
<b>Total Hours</b>	<b>71</b>

#### **Required in the College of Engineering**

	Hours
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
CEMM 260 —Properties of Materials	3
CS 108 —Fortran Programming for Engineers	3
ECE 210 —Electrical Circuit Analysis	3

**Total Hours** **45**

### **Technical Elective**

**Hours**

One technical elective must be chosen from the following design-oriented courses.

ChE 392 —Undergraduate Research (3)	
<i>An appropriate design-related research project may be selected with the approval of the Department of Chemical Engineering.</i>	
ChE 411 —Fluidization Engineering (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 441 —Computer Applications in Chemical Engineering (3)	
ChE 445 —Mathematical Methods in Chemical Engineering (3)	
ChE 494 —Selected Topics in Chemical Engineering (3)	

**Total Hours** **3**

*Possible technical elective credit for a 400-level ChE course not listed above will require departmental approval by petition to the Undergraduate Committee.*

### **Electives Outside Major Rubric**

**Hours**

Students must complete electives outside the *ChE* rubric. **6**

**Total Hours** **6**

### **Free Elective**

One free elective may be chosen by the student (3 semester hours).

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

### **Typical Course Schedule**

#### **FIRST YEAR**

First Semester	Hours
Engr 100 —Engineering Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	
Engl 160 —English Composition I	3
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Humanities or social sciences elective	3

**Total Hours** **17**

Second Semester	Hours
Engl 161 —English Composition II	3
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Chem 114 —General College Chemistry II	5

**Total Hours** **17**

## SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
Phys 142 —General Physics II (Electricity and Magnetism)	4
Chem 232 —Organic Chemistry I	4
CS 108 —Fortran Programming for Engineers	3
ChE 201 —Introduction to Thermodynamics	3

**Total Hours** **17**

Second Semester	Hours
Math 220 —Introduction to Differential Equations I	3
Chem 233 —Organic Chemistry II	4
Chem 234 —Organic Chemistry Lab I	1
ChE 210 —Material and Energy Balances	4
Humanities or social sciences elective	3

**Total Hours** **15**

## THIRD YEAR

First Semester	Hours
Chem 342 —Physical Chemistry I	3
ECE 210 —Electrical Circuit Analysis	3
ChE 311 —Transport Phenomena I	3
Humanities or social sciences elective	3
CEMM 260 —Properties of Materials	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
Humanities or social sciences elective	3

**Total Hours** **16**

## FOURTH 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 of 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	3

*Elective selected from ChE 411, 413, 421, 422, 423, 431, 441, 445, 494 or 392  
(department approval is required for ChE 392).*

Elective outside of the major rubric 3  
Free elective 3

**Total Hours** **17**

## Minor in Chemical Engineering

For the minor, 16-17 semester hours excluding prerequisite courses. Students outside the Chemical Engineering Department who wish to minor in Chemical Engineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
Chem 112 <i>or</i> 116; 342	8
CS 108	3
Math 180, 181, 210, 220	16
Phys 141, 142	8
<b>Total Hours</b>	<b>35</b>
<b>Required Courses</b>	
ChE 210, 301, 321	10
ChE 311 <i>or</i> ME 211	3
ChE 312 <i>or</i> ME 321 <i>or</i> ChE 313	3-4
<b>Total Hours</b>	<b>16-17</b>

# Civil and Materials Engineering

2095 Engineering Research Facility

(312) 996-3428

Head of Department and Advising Coordinator: Farhad Ansari.

## Curriculum in Civil Engineering

### *Bachelor of Science 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. The program operational goals and outcomes are listed separately in the following statements:

### 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 multi-disciplinary teams and have the leadership potential to become team leaders; appreciate and understand their ethical, professional and community responsibilities to society.

### 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 life-long 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.

### Required for the Bachelor of Science in Civil Engineering

(128 semester hours)

#### Required Outside of the College of Engineering

	Hours
Chem 112 —General College Chemistry I	5
Phys 141 —General Physics I (Mechanics)	4
Phys 142 —General Physics II (Electricity and Magnetism)	4
Phys 244 —General Physics III (Modern Physics)	3
Math 180 —Calculus I	5
Math 181 —Calculus II	5
Math 210 —Calculus III	3
Math 220 —Introduction to Differential Equations	3
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3

Humanities electives	6
Social sciences electives	6

*One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.*

**Total Hours** **50**

### Required in the College of Engineering

	Hours
CEMM 201 —Statics	3
CEMM 203 —Strength of Material	3
CEMM 205 —Structural Analysis I	3
CEMM 215 —Hydraulics and Hydrology	3
CEMM 216 —Introduction to Environmental Engineering	3
CEMM 260 —Properties of Materials	3
CEMM 300 —Composition and Properties of Concrete	2
CEMM 301 —Behavior and Design of Metal Structures	3
CEMM 302 —Introduction to Transportation and Traffic Engineering	3
CEMM 310 —Design of Reinforced Concrete Structures	3
CEMM 315 —Soil Mechanics and Foundation Engineering	5
CEMM 396 —Senior Design I	3
CEMM 397 —Senior Design II	3
CEMM 402 —Geometric Design of Highway Facilities	3
CEMM 405 —Foundation Analysis & Design	3
CEMM 434 —Finite Element Analysis I	3
CS 108 —Fortran Programming for Engineers	3
<i>One of the following courses:</i>	3
ECE 210 —Electrical Circuit Analysis (3)	
ME 205 —Introduction to Thermodynamics (3)	
IE 201 —Engineering Economy	3
ME 210 —Engineering Dynamics	3
ME 211 —Fluid Mechanics I	3
ME 250 —Engineering Graphics and Design	3
Engr 100 —Orientation	0

*Engr 100 carries one equivalent hour; does not carry credit towards graduation.*

**Total Hours** **66**

### Technical Electives

	Hours
At least one course must be selected from the following to strengthen the design content:	
CEMM 400 —Advanced Design of Reinforced Concrete (3)	
CEMM 401 —Advanced Design of Metal Structures (3)	
CEMM 406 —Bridge Design (3)	
CEMM 409 —Structural Analysis II (3)	
CEMM 410 —Design of Prestressed Concrete Structures (3)	
CEMM 415 —Environmental Geotechnology (3)	
CEMM 421 —Water Treatment Design (3)	
CEMM 422 —Biological Wastewater Design (3)	
CEMM 425 —Environmental Remediation Engineering (3)	
CEMM 427 —Engineering Hydrology (3)	
CEMM 428 —Groundwater Hydraulics & Contaminant Transport Modeling (3)	
CEMM 454 —Structural Analysis and Design of Tall Buildings (3)	

The remaining three hours may be satisfied by taking any 400-level CEMM courses, including those listed above.

**Total Hours** **6**

*Students who are interested in taking the Illinois Structural Engineering Licensure Examination must take all three 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 Major Rubric

	Hours
Students must complete electives outside the <i>CEMM</i> rubric.	6
<b>Total Hours</b>	<b>6</b>

## Typical Course Schedule for the Civil Engineering Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Humanities-social sciences elective	3
Engl 160 —English Composition I	3
Engr 100 —Orientation	1

*Engr 100 awards no credit towards graduation.*

<b>Total Hours</b>	<b>17</b>
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Second Semester	Hours
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Engl 161 —English Composition II	3
ME 250 —Engineering Graphics and Design	3
Humanities-social sciences elective	3

<b>Total Hours</b>	<b>18</b>
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### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
Phys 142 —General Physics II (Electricity and Magnetism)	4
CEMM 201 —Statics	3
CS 108 —Fortran Programming for Engineers	3
IE 201 —Engineering Economy	3

<b>Total Hours</b>	<b>16</b>
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Second Semester	Hours
Math 220 —Introduction to Differential Equations	3
Phys 244 —General Physics III (Modern Physics)	3
CEMM 203 —Strength of Materials	3
ME 210 —Engineering Dynamics	3
Humanities-social sciences elective	3

<b>Total Hours</b>	<b>15</b>
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### THIRD YEAR

First Semester	Hours
CEMM 205 —Structural Analysis I	3
CEMM 216 —Environmental Engineering	3
CEMM 302 —Transportation Engineering	3
CEMM 315 —Soil Mechanics and Laboratory	4
ME 211 —Fluid Mechanics I	3

<b>Total Hours</b>	<b>16</b>
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Second Semester	Hours
CEMM 310 —Design of Reinforced Concrete Structures	3
CEMM 215 —Hydraulics and Hydrology	3
ME 205 <i>or</i> ECE 210	3
CEMM 260 —Properties of Materials	3
CEMM 300 —Composition and Properties of Concrete	2
Humanities-social sciences elective	3

<b>Total Hours</b>	<b>17</b>
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### FOURTH YEAR

First Semester	Hours
CEMM 301 —Behavior and Design of Metal Structures	3
CEMM 396 —Senior Design I	3
CEMM 434 —Finite Element Analysis I	3
CEMM 405 —Foundation Analysis & Design	3
Elective outside of the major rubric	3

<b>Total Hours</b>	<b>15</b>
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Second Semester	Hours
CEMM 397 —Senior Design II	3
CEMM 402 —Geometric Design of Highway Facilities	3
Technical electives	6
Elective outside of the major rubric	3

<b>Total Hours</b>	<b>15</b>
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## Minor in Civil Engineering

For the minor, 18-20 semester hours excluding prerequisite courses. Students outside the Civil and Materials Engineering Department who wish to minor in Civil Engineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
Chem 112	5
CEMM 200 <i>or</i> 201	3
CS 108	3
Math 180, 181, 210, 220	16
Phys 141	4

<b>Total Hours</b>	<b>31</b>
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<b>Required Courses</b>	
CEMM 203	3
ME 211	3
Three from CEMM 205, 215, 216, 260, 302, 315	9-11
One from CEMM 301, 310, 402, 403, 405, 494 (when topic is <i>Sanitary Engineering Design</i> )	3

<b>Total Hours</b>	<b>18-20</b>
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# Computer Science

**1120 Science and Engineering Offices**

**Head of the Department:** Peter Nelson.

**Director of Undergraduate Studies:** Patrick Troy.

**(312) 996-3422**

## Curriculum in Computer Science

### *Bachelor of Science 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 a 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 multi disciplinary careers.

There are very few areas in modern society untouched by computer science. Computer science is present in everything from health care, 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 option* within the B.S. program in computer science. Computer systems represents a sub-specialty that provides more emphasis on understanding and designing computer hardware. The student continues to learn the fundamental areas of computer science: 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.

## Required for the Bachelor of Science in Computer Science

(128 semester hours)

### Required Outside of the College of Engineering

	Hours
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Math 180 —Calculus I	5
Math 181 —Calculus II	5
Math 210 —Calculus III	3
Lab science sequence & science electives (described below)	12
Lab Science Sequence (8-10)	
Science electives (2-4)	
Humanities electives	6
Social sciences electives	6
Humanities/social sciences/art electives	18

*Humanities and social sciences electives must be selected from a list of approved courses provided by the College of Engineering. One of the humanities/social sciences/art or free electives (see below) must be approved to meet the Cultural Diversity requirement. Choices for the lab science elective are below. Science and arts electives must be selected from a list of approved courses provided by the CS Department. More explanation of the science requirement is given below.*

**Total Hours** **61**

### Required in the College of Engineering

	Hours
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
Engr 100 —Orientation	0

*Engr 100 carries one equivalent hour; does not carry credit towards graduation.*

**Total Hours** **38**

### Technical Electives

	Hours
Students must complete at least 15 hours from among the following technical elective courses, of which at most one may be from any department outside Computer Science.	
CS 398 —Undergraduate Design/Research (3)	
CS 411 —Artificial Intelligence I (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 —Introduction to Software Engineering (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 469 —Computer Systems Design (3)	

CS 472 —Testing and Verification of Real-Time Software (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 471 —Numerical Analysis (3)  
 MCS 481 —Computational Geometry (3)  
 Stat 471 —Linear and Non-Linear Programming (3)

**Total Hours** **15**

### Required Mathematics Courses

Students must complete at least 9 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).

	Hours
One of the following two courses <i>must</i> be chosen:	3
IE 342 —Probability and Statistics for Engineers (3)	
Stat 381 —Applied Statistical Methods (3)	
Math 215 —Introduction to Advanced Mathematics	3
Math 220 —Introduction to Differential Equations	3
One of the following two courses may be chosen:	3
Math 310 —Applied Linear Algebra (3)	
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
Stat 401 —Introduction to Probability	3
Stat 473 —Game Theory	3

*Students who take IE 342 will not receive credit for either Stat 381 or Stat 401.*

Note that students may choose to use MCS 471, Numerical Analysis, as either a CS technical elective (from outside the Computer Science Department) or as a required mathematics course, but not both.

### Lab Science/Engineering Science Electives

Every student must take one of the two-course lab sequences from Biological Sciences, 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.

	Hours
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

### Free Elective

5 semester hours.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Schedule for the Computer Science Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Humanities/social sciences/arts elective	3
Engl 160 —English Composition I	3
CS 101 —Introduction to Computing	3
Engr 100 —Orientation	1

*Engr 100 awards no credit towards graduation.*

**Total Hours** **15**

Second Semester	Hours
Math 181 —Calculus II	5
Engl 161 —English Composition II	3
Lab Science Sequence I	4
CS 102 —Introduction to Programming	3

**Total Hours** **15**

### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
Humanities/social sciences/arts elective	3
CS 201 —Discrete Mathematics and Data Structures I	4
Lab Science Sequence II	4
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
Humanities/social sciences/arts elective	3

**Total Hours** **17**

### THIRD YEAR

First Semester	Hours
CS 366 —Computer Architecture II	4
CS 340 —Software Design	4
Required mathematics course	3
Humanities/social sciences/arts electives	6

**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/arts elective	3

**Total Hours** **16**

## FOURTH YEAR

First Semester	Hours
CS 335 —Computer Ethics	2
CS 401 —Computer Algorithms	3
Technical electives	6
Humanities/social sciences/arts electives	6

**Total Hours** **17**

Second Semester	Hours
Technical electives	9
Humanities/social sciences/arts electives	6
CS 376 —Practicum in CS Oral Presentations	1

**Total Hours** **16**

### Required for the Bachelor of Science in Computer Science, Computer Systems Option

(128 semester hours)

#### Required Outside of the College of Engineering

	Hours
Engl 160 —English Composition I	3
Engl 161 —English Composition II	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
Humanities electives	6
Social sciences electives	6
Humanities/social sciences/art electives	18

*Humanities and social sciences electives must be selected from a list of approved courses provided by the College of Engineering. One of the humanities/social sciences/art or free electives (see below) must be approved to meet the Cultural Diversity requirement. humanities/social sciences/art electives must be selected from a list of approved courses provided by the CS department.*

**Total Hours** **60**

#### Required in the College of Engineering

	Hours
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 Presentations	1
CS 385 —Operating Systems Concepts and Design	4
CS 469 —Computer Systems Design	3
Engr 100 —Orientation	0

*Engr 100 carries one equivalent hour; does not carry credit towards graduation.*

**Total Hours** **38**

#### Technical Electives

	Hours
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Students must complete at least 18 hours from among the following technical elective courses, of which at most 11 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 Mathematics requirement.

CS 340 —Software Design (4)

CS 398 —Undergraduate Design/Research (3)  
 CS 401 —Computer Algorithms I (3)  
 CS 411 —Artificial Intelligence I (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 —Introduction to Software Engineering (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 472 —Testing & Verification of Real-Time Software (3)  
 CS 473 —Compiler Design (3)  
 CS 474 —Object-Oriented Programming 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 Non-Linear Programming (3)

**Total Hours** **18**

#### Required Mathematics Courses

Students must complete at least 6 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).

	Hours
One of the following two courses <i>must</i> be chosen:	3
IE 342 —Probability and Statistics for Engineers (3)	
Stat 381 —Applied Statistical Methods (3)	
Math 215 —Introduction to Advanced Mathematics	3
One of the following two courses may be chosen:	3
Math 310 —Applied Linear Algebra (3)	
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
Stat 401 —Introduction to Probability	3
Stat 473 —Game Theory	3

*Students who take IE 342 will not receive credit for either Stat 381 or Stat 401.*

Note that students may choose to use MCS 471, Numerical Analysis, toward either the CS technical elective requirement (from outside the CS department) or toward the required mathematics requirement, but not both.

#### Free Elective

6 semester hours.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Schedule for the Computer Science Major, Computer Systems Option

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Humanities/social sciences/arts elective	6
Engl 160 —English Composition I	3
CS 101 —Introduction to Computing	3
Engr 100 —Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	
<b>Total Hours</b>	<b>18</b>
Second Semester	Hours

Math 181 —Calculus II	5
Engl 161 —English Composition II	3
CS 102 —Introduction to Programming	3
Humanities/social sciences/arts electives	6
<b>Total Hours</b>	<b>17</b>

### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
Humanities/social sciences/arts electives	6
CS 201 —Data Structures and Discrete Mathematics I	4
Phys 141 —General Physics I (Mechanics)	4
<b>Total Hours</b>	<b>17</b>
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
Humanities/social sciences/arts electives	6
<b>Total Hours</b>	<b>16</b>

### THIRD 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
<b>Total Hours</b>	<b>17</b>
Second Semester	Hours

CS 366 —Computer Architecture II	4
Technical electives	6
Required mathematics course	3
Humanities/social sciences/arts electives	3
<b>Total Hours</b>	<b>16</b>

### FOURTH YEAR

First Semester	Hours
CS 376 —Practicum in CS Presentations	1
CS 385 —Operating Systems Concepts and Design	4
Technical electives	6
Humanities/social sciences/arts elective	3
<b>Total Hours</b>	<b>14</b>

Second Semester	Hours
Technical electives	6
CS 335 —Computer Ethics	2
CS 469 —Computer Systems Design	3
Free elective	3
<b>Total Hours</b>	<b>14</b>

## Minor in Computer Science

For the minor, 13 semester hours excluding prerequisite courses. This minor is not available to students in very closely related fields, including for example, Computer Systems, Computer Engineering, and Mathematical Computer Science.

	Hours
<b>Prerequisite Courses</b>	
CS 101	3
Math 180	5
<b>Total Hours</b>	<b>8</b>
<b>Required Courses</b>	
CS 102, 201, 202	10
One of:	3
CS 301	3
CS 401	3
<b>Total Hours</b>	<b>13</b>



# Electrical and Computer Engineering

**1020 Science and Engineering Offices**

**Head of the Department:** Mitra Dutta.

**Director of Undergraduate Studies:** Roland Priemer.

**(312) 996-3423**

## Curriculum in Electrical Engineering

### *Bachelor of Science 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, and 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 also to provide laboratory experience in electrical and electronic circuits, electromagnetics, communication and signal processing, controls, computers and digital systems. The curriculum also 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.

### **Required for the Bachelor of Science in Electrical Engineering**

(128 semester hours)

### **Required Outside the College of Engineering**

	Hours
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Engl 161 —English Composition II	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 244 —General Physics III (Modern Physics)	3
Humanities electives	6
Social sciences electives	6

*One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.*

**Total Hours** **46**

### **Required in the College of Engineering**

	Hours
<b>Electrical Engineering Core Courses</b>	
ChE 201/ME 205 —Thermodynamics	3
CS 107 —Introduction to Computing and Programming	4
ECE 220 —Electromagnetics	3
<i>Phys 142, General Physics II, Electricity and Magnetism (4 hours) may be used as an alternative to satisfy the ECE 220 requirement.</i>	
ECE 221 —Electromagnetics Laboratory	1
ECE 225 —Circuit Analysis	4
ECE 265 —Introduction to Logic Design	3
ECE 267 —Computer Organization and Programming	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
Engr 100 —Orientation	0

*Engr 100 carries one equivalent hour; and does not carry credit towards graduation.*

**Total Hours** **42**

**Hours**

### **Electrical Engineering Advanced Core Courses**

Students must complete at least three of the following courses.

Each course has a laboratory.

- ECE 311 —Communication Engineering (4)
- ECE 317 —Digital Signal Processing I (4)
- ECE 320 —Transmission Lines (4)
- ECE 342 —Electronics II (4)
- ECE 350 —Principles of Automatic Control (4)
- ECE 367 —Microprocessor-Based Design (4)

**Total Hours** **12**

### **Technical Electives**

**Hours**

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.

- CS 385 —Operating Systems Concepts and Design (4)  
*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.*
- ECE 333 —Computer Communication Networks I (4)
- ECE 347 —Integrated Circuit Engineering (3)
- ECE 366 —Computer Architecture (3)

ECE 368 —CAD-Based Digital Design (3)	
ECE 400 —Introduction to Microelectromechanical Systems (3)	
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 Machine Vision (3)	
ECE 418 —Digital Signal Processing II (3)	
ECE 420 —Introduction to Microwave Engineering (3)	
ECE 421 —Introduction to Antenna Engineering (3)	
ECE 422 —Wave Propagation and Communication Links (3)	
ECE 423 —Electromagnetic Compatibility (3)	
ECE 426 —Microwave Semiconductor Devices (3)	
ECE 427 —Modern Linear Optics (3)	
ECE 429 —Plasma (3)	
ECE 430 —Communications and Signal Processing (3)	
ECE 431 —Analog Communication Circuits (3)	
ECE 432 —Digital Communications (3)	
ECE 434 —Multimedia Communication Networks (3)	
ECE 435 —Wireless Communication Networks (3)	
ECE 436 —Computer Communication Networks II (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 —Advanced 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)	

<b>Total Hours</b>	<b>19</b>
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### Additional Mathematics Requirement

	Hours
Students must also complete at least 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)	

<b>Total Hours</b>	<b>3</b>
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### Electives Outside Major Rubric

	Hours
Students must select courses from outside the Electrical and Computer Engineering (ECE) Department.	6

<b>Total Hours</b>	<b>6</b>
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Students preparing for the Fundamentals of Engineering Examination, which leads to becoming a Licensed Professional Engineer, are advised to use these hours to take CEMM 200, Statics and Dynamics, and one course from the following: CEMM 203, Strength of Materials; CEMM 260, Properties of Materials; ME 211, Fluid Mechanics I.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Course Schedule for the Electrical Engineering Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Humanities-social sciences elective	3
Engr 100 —Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	

<b>Total Hours</b>	<b>17</b>
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Second Semester	Hours
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Engl 161 —English Composition II	3
CS 107 —Introduction to Computing and Programming	4

<b>Total Hours</b>	<b>16</b>
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### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
ECE 220 —Electromagnetics	3
ECE 221 —Electromagnetics Laboratory	1
ChE 201/ME 205 —Thermodynamics	3
Free elective	3
Humanities-social sciences elective	3

<b>Total Hours</b>	<b>16</b>
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Second Semester	Hours
Math 220 —Introduction to Differential Equations	3
ECE 265 —Introduction to Logic Design	3
ECE 267 —Computer Organization and Programming	3
Phys 244 —General Physics III (Modern Physics)	3
Free elective	3

<b>Total Hours</b>	<b>15</b>
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### THIRD YEAR

First Semester	Hours
ECE 225 —Circuit Analysis	4
ECE 310 —Continuous and Discrete Signals and Systems	3
ECE 346 —Solid State Device Theory	4
Humanities-social sciences elective	3
Additional mathematics course	3

<b>Total Hours</b>	<b>17</b>
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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 electives	8

<b>Total Hours</b>	<b>18</b>
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### FOURTH YEAR

First Semester	Hours
ECE 396 —Senior Design I	2
Advanced EE core elective	4
Humanities-social sciences elective	3
Technical electives	6

<b>Total Hours</b>	<b>15</b>
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Second Semester	Hours
ECE 397 —Senior Design II	2
Technical electives	13
<b>Total Hours</b>	<b>15</b>

## Minor in Electrical Engineering

For the minor, 13 semester hours excluding prerequisite courses. Students not majoring in Electrical Engineering or Computer Engineering who wish to minor in Electrical Engineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
ECE 220, 221, 225	8
<i>Phys 142, General Physics II: Electricity and Magnetism (4 hours) may be used as an alternative to satisfy the ECE 220 requirement.</i>	
Math 180, 181, 210, 220	16
Phys 141 —General Physics I (Mechanics)	4
<b>Total Hours</b>	<b>28</b>
<b>Required Courses</b>	
ECE 265, 310, 322, 340	13
<b>Total Hours</b>	<b>13</b>

## Curriculum in Computer Engineering

### Bachelor of Science 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.

### Required for the Bachelor of Science in Computer Engineering

(128 semester hours)

#### Required Outside of the College of Engineering

	Hours
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Engl 161 —English Composition II	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
Humanities electives	6
Social sciences electives	6
<i>One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.</i>	

**Total Hours** **43**

#### Required in the College of Engineering

	Hours
<b>Computer Engineering Core Courses</b>	
ChE 201/ME 205 —Thermodynamics	3
CS 107 —Introduction to Computing and Programming	4
CS 201 —Data Structures and Discrete Mathematics I	4
ECE 220 —Electromagnetics	3
<i>(Phys 142, General Physics II: Electricity and Magnetism (4 hours), may be used as an alternative to satisfy the ECE 220 requirement.)</i>	
ECE 221 —Electromagnetics Laboratory	1
ECE 225 —Circuit Analysis	4
ECE 265 —Introduction to Logic Design	3
ECE 267 —Computer Organization and Programming	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 Architecture	3
ECE 367 —Microprocessor-Based Design	4
ECE 396 —Senior Design I	2
ECE 397 —Senior Design II	2
ECE 465 —Digital Systems Design	3
Engr 100 —Orientation	0
<i>Engr 100 carries one equivalent hour; does not carry credit towards graduation.</i>	

**Total Hours** **49**

#### Computer Engineering Advanced Core Courses

Students must complete at least three of the following courses. Each ECE course has a laboratory.

- ECE 311 —Communication Engineering (4)
- ECE 317 —Digital Signal Processing I (4)
- ECE 333 —Computer Communication Networks I (4)
- ECE 342 —Electronics II (4)
- ECE 346 —Solid State Device Theory (4)
- ECE 368 —CAD-Based Digital Design (4)
- CS 385 —Operating Systems Concepts and Design (4)

**Total Hours** **12**

## Technical Electives

	Hours
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 electives requirement.	

CS 202 —Data Structures and Discrete Mathematics II (3)	
CS 473 —Compiler Design (3)	
CS 485 —Networked Operating Systems Programming (4)	
ECE 320 —Transmission Lines (4)	
ECE 322 —Communication Electromagnetics (3)	
ECE 347 —Integrated Circuit Engineering (3)	
ECE 350 —Principles of Automatic Control (4)	
ECE 407 —Pattern Recognition I (3)	
ECE 410 —Network Analysis (3)	
ECE 412 —Introduction to Filter Synthesis (3)	
ECE 415 —Image Analysis and Machine Vision (3)	
ECE 418 —Digital Signal Processing II (3)	
ECE 420 —Introduction to Microwave Engineering (3)	
ECE 421 —Introduction to Antenna Engineering (3)	
ECE 422 —Wave Propagation and Communication Links (3)	
ECE 426 —Microwave Semiconductor Devices (3)	
ECE 427 —Modern Linear Optics (3)	
ECE 430 —Communication and Signal Processing (3)	
ECE 431 —Analog Communication Circuits (3)	
ECE 432 —Digital Communications (3)	
ECE 434 —Multimedia Communication Networks (3)	
ECE 435 —Wireless Communication Networks (3)	
ECE 436 —Computer Communication Networks II (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 466 —Advanced 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)	
Phys 244 —General Physics III: Modern Physics (3)	

**Total Hours** **15**

## Additional Mathematics Requirement

	Hours
Students must complete at least one of the following courses:	
Math 310 —Applied Linear Algebra I (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** **3**

## Electives Outside Major Rubric

	Hours
Students must select courses from outside the Electrical and Computer Engineering (ECE) Department.	
<b>Total Hours</b>	<b>6</b>

Students preparing for the Fundamentals of Engineering Examination, which leads to becoming a Licensed Professional Engineer, are advised to use these hours to take CEMM 200, Statics and Dynamics, and one course from the following courses: CEMM 203, Strength of Materials; CEMM 260, Properties of Materials; ME 211, Fluid Mechanics.

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Course Schedule for the Computer Engineering Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Humanities-social sciences elective	3
Engr 100 —Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	

**Total Hours** **16**

Second Semester	Hours
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Engl 161 —English Composition II	3
CS 107 —Introduction to Computing and Programming	4

**Total Hours** **16**

### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
ECE 220 —Electromagnetics	3
ECE 221 —Electromagnetics Laboratory	1
CS 201 —Data Structures and Discrete Mathematics I	4
Free elective	3
Humanities-social sciences elective	3

**Total Hours** **17**

Second Semester	Hours
Math 220 —Introduction to Differential Equations	3
ECE 265 —Introduction to Logic Design	3
ECE 267 —Computer Organization and Programming	3
Humanities-social sciences elective	3
Free elective	3

**Total Hours** **15**

### THIRD YEAR

First Semester	Hours
ECE 225 —Circuit Analysis	4
ECE 310 —Discrete and Continuous Signals and Systems	3
ECE 367 —Microprocessor-Based Design	4
Humanities-social sciences elective	3
Additional mathematics course	3

**Total Hours** **17**



<b>Second Semester</b>	<b>Hours</b>
ECE 340 —Electronics I	4
ECE 341 —Probability and Random Processes for Engineers	3
ECE 366 —Computer Architecture	3
Advanced CE core electives	8
<b>Total Hours</b>	<b>18</b>

## FOURTH YEAR

<b>First Semester</b>	<b>Hours</b>
ECE 396 —Senior Design I	2
Advanced CE core elective	4
ECE 465 —Digital Systems Design	3
Technical electives	6
<b>Total Hours</b>	<b>15</b>

<b>Second Semester</b>	<b>Hours</b>
ECE 397 —Senior Design II	2
Technical electives	12
<b>Total Hours</b>	<b>14</b>

## Minor in Computer Engineering

For the minor, 13 semester hours excluding prerequisite courses. Students not majoring in Electrical Engineering or Computer Engineering who wish to minor in Computer Engineering must complete the following:

	<b>Hours</b>
<b><u>Prerequisite Courses</u></b>	
CS 107	4
Phys 141	4
ECE 220, 221, 225	8
<i>(Phys 142 may be used as an alternative to satisfy the ECE 220 requirement.)</i>	
Math 180, 181, 210, 220	16
<b>Total Hours</b>	<b>32</b>
<b><u>Required Courses</u></b>	
ECE 265, 267, 340, 366	
<b>Total Hours</b>	<b>13</b>

# Environmental Engineering

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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 which crosses disciplinary boundaries among engineering specialties and engineering departments.

Students interested in this program should contact Prof. Ishwar Puri, [ikpuri@uic.edu](mailto:ikpuri@uic.edu).

## Minor in Environmental Engineering

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For the minor, 15-19 semester hours, excluding prerequisite courses. Students who wish to minor in Environmental Engineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
Chem 112 <i>or</i> Chem 116 <i>or</i> ChE 201 <i>or</i> ME 205	3-5
CEMM 200 <i>or</i> 201	3
CS 101 <i>or</i> 108	3
Math 180, 181, 210, 220	16
Phys 141	4
<b>Total Hours</b>	<b>29-31</b>
<b>Required Courses</b>	
<i>Three</i> courses from the following:	9-12
ChE 210, 301, 321;	
CEMM 215;	
CS 108;	
ME 325;	
ME 211 <i>or</i> ChE 311;	
ChE 312 <i>or</i> ME 321	
ChE 421 <i>or</i> ME 426 <i>or</i> ME 429 <i>or</i> ME/ChE 450	3-4
ChE 413 <i>or</i> CEMM 428 <i>or</i> CEMM 494 (when topic is <i>Treatment of Wastewater</i> ) <i>or</i> ME 318	3
<b>Total Hours</b>	<b>15-19</b>
<i>At least two courses must be outside of the student's department.</i>	

# International Studies

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## International Studies Concentration

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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 Concentration*, a cluster of courses related to a specific country outside of the United States.

The *International Studies Concentration* 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 non-language courses.
- Minimum grade point average of 3.00 (A=5.00)
- An academic or technical/industrial experience outside the U.S. that is supported by documentation.

Engineering students interested in completing the *International Studies Concentration* should consult the Associate Dean of Undergraduate Administration in the College of Engineering in Room 102 SEO.

# Materials Engineering

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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 is involved with 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.

## Minor in Materials Engineering

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For the minor, 14-19 semester hours, excluding prerequisite courses. Students who wish to minor in Materials Engineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
Chem 112 <i>or</i> Chem 116	5
Math 180, 181	10
Phys 141	4
<b>Total Hours</b>	<b>19</b>
<b>Required Courses</b>	
CEMM 260 <i>or</i> CEMM 261	2-3
Four courses from the following:	12-16
BioE 460;	
ChE 440, 494 (when topic is <i>Design of Microelectronics Processing</i> );	
CEMM 433, 460, 463, 464, 470, 471, 472, 478, 480;	
EaES 424;	
ECE 346, 347, 449;	
ME 380, 403;	
Phys 481	
<i>Some of the courses listed above have prerequisites not included in the minor. Consult the course catalog or Timetable for course prerequisites.</i>	
<b>Total Hours</b>	<b>14-19</b>



# Mechanical and Industrial Engineering

## 2039 Engineering Research Facility

**Head of the Department:** William M. Worek.

**Chief Adviser:** Francis Loth

(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. Two ABET-accredited majors, one in mechanical engineering and the other in industrial engineering, as well as the major in engineering management, constitute the department's degree programs. The former two lead to the degrees of Bachelor of Science in Mechanical Engineering and the Bachelor of Science in Industrial Engineering, while the latter leads to the Bachelor of Science in Engineering Management. All of this is offered in the economically thriving, industrialized, world class, metropolitan city of Chicago with a diverse student body of both commuter and residential students, and in a leading-edge research environment. Students entering the department should consult their assigned adviser in selecting their courses so that they can satisfy the degree requirement of 128 hours in these majors.

## Curriculum in Mechanical Engineering

### *Bachelor of Science 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 by the 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 Department of Mechanical and Industrial Engineering offers a program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21201-4012, telephone: (410) 347-7700, leading to the degree of Bachelor of Science in Mechanical Engineering. The program has been developed to provide students with a broad base on which to build a successful mechanical engineering career. Some of the courses involve mechanical design and as such deal with the fundamentals of kinematics, mechanisms, stress analysis, dynamics and vibration theory, fluid mechanics, material properties, CAD/CAM and robotics. Other courses deal with thermodynamics, heat transfer, and combustion and their applications to all types of power equipment including internal combustion engines, nuclear reactors, heating and refrigeration systems, electronic heating and cooling, and solar energy collectors. The program also emphasizes computer applications, professional ethics, communication skills, ability to work in a multi-disciplinary team and awareness of broad education, life-long learning and contemporary issues.

The objectives of the Bachelor of Science in Mechanical Engineering can be found at [http://www.me.uic.edu/programs/b sme\\_objectives.htm](http://www.me.uic.edu/programs/b sme_objectives.htm).

### **Required for the Bachelor of Science in Mechanical Engineering**

(128 semester hours)

### **Required Outside of the College of Engineering**

	Hours
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Engl 161 —English Composition II	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/Magnetism)	4
Phys 244 —General Physics III (Modern Physics)	3
Humanities electives	6
Selected from the <i>Course Distribution Chart</i> in the <i>College of Liberal Arts and Sciences</i> from two different departments. Social sciences electives	6
Selected from the <i>Course Distribution Chart</i> in the <i>College of Liberal Arts and Sciences</i> from two different departments. <i>One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.</i>	

**Total Hours**

**50**

### **Required in the College of Engineering**

	Hours
CEMM 201 —Statics	3
CEMM 203 —Strength of Materials	3
CEMM/ME 261 —Materials for Manufacturing	2
CS 108 —Fortran Programming for Engineers	3
ECE 210 —Electrical Circuit Analysis	3
Engr 100 —Orientation	0
<i>Engr 100 carries one equivalent hour; does not carry credit towards graduation.</i>	
IE 201 —Engineering Economy	3
ME 205 —Introduction to Thermodynamics	3
ME 210 —Engineering Dynamics	3
ME 211 —Fluid Mechanics I	3
ME 250 —Engineering Graphics and Design	3
ME 308 —Mechanical Vibrations	3
ME 318 —Fluid Mechanics II	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	5
ME 428 —Numerical Methods in Mechanical Engineering	3
ME 447 —Introduction to Computer-Aided Design	3

**Total Hours**

**63**

### **Technical Electives**

	Hours
Students must complete 9 hours from the list below.	
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 (3-9)	

**Total Hours**

**9**

## Electives Outside Major Rubric

	Hours
Students must complete electives outside the <i>ME</i> rubric.	6
<b>Total Hours</b>	<b>6</b>

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Course Schedule for the Mechanical Engineering Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Humanities/social sciences elective	3
Engr 100 —Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	
<b>Total Hours</b>	<b>17</b>
Second Semester	Hours

Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
CS 108 —Fortran Programming for Engineers	3
ME 250 —Engineering Graphics and Design	3
Engl 161 —English Composition II	3
<b>Total Hours</b>	<b>18</b>

### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
Phys 142 —General Physics II (Electricity and Magnetism)	4
IE 201 —Engineering Economy	3
CEMM 201 —Statics	3
CEMM 261 —Materials for Manufacturing	2
<b>Total Hours</b>	<b>15</b>
Second Semester	Hours
Math 220 —Introduction to Differential Equations	3
Phys 244 —General Physics III (Modern Physics)	3
CEMM 203 —Strength of Materials	3
ME 205 —Introduction to Thermodynamics	3
Free elective (outside ME)	3
<b>Total Hours</b>	<b>15</b>

### THIRD YEAR

First Semester	Hours
ECE 210 —Electrical Circuit Analysis	3
ME 210 —Engineering Dynamics	3
ME 211 —Fluid Mechanics I	3
ME 325 —Intermediate Thermodynamics	3
Free elective (outside ME)	3
<b>Total Hours</b>	<b>15</b>
Second Semester	Hours
ME 308 —Mechanical Vibrations	3
ME 318 —Fluid Mechanics II	3
ME 320 —Mechanisms and Dynamics of Machinery	4
ME 321 —Heat Transfer	4
Humanities/social sciences elective	3
<b>Total Hours</b>	<b>17</b>

## FOURTH 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
Humanities/social sciences elective	3
Senior technical elective	3
<b>Total Hours</b>	<b>15</b>
Second Semester	Hours
ME 341 —Experimental Methods in Mechanical Engineering	3
ME 396 —Senior Design	5
Humanities/social sciences elective	3
Senior technical electives (2)	6
<b>Total Hours</b>	<b>17</b>

## Minor in Mechanical Engineering

For the minor, 15-17 semester hours excluding prerequisite courses. Students not majoring in Mechanical Engineering who wish to minor in Mechanical Engineering must complete the following:

	Hours
<b>Prerequisite Courses</b>	
CEMM 200 <i>or</i> 201	3
CS 101 <i>or</i> 108	3
Math 180, 181, 210, 220	16
ME 205 <i>or</i> ChE 201	3
Phys 141	4
<b>Total Hours</b>	<b>29</b>
<b>Required Courses</b>	
CEMM 203	3
ME 210, 211	6
Two from ME 308, 318, 320, 321, 325, 341, 380, 447	6-8
<b>Total Hours</b>	<b>15-17</b>

## Curriculum in Industrial Engineering

### *Bachelor of Science in Industrial Engineering*

The Department of Mechanical and Industrial Engineering offers a program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21201-4012, telephone: (410) 347-7700, leading to the degree of Bachelor of Science in Industrial Engineering.

Industrial engineering is concerned with the design, improvement, and installation of integrated systems of people, material, and equipment. It draws upon specialized knowledge and skills in the mathematical, physical, and social sciences together with the principles and methods of engineering design to specify, predict, and evaluate the results to be obtained from such 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* 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* deals with the problems caused by the interaction of complex man-and-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 multi-disciplinary team and awareness of broad education, life-long learning, and contemporary issues.

The objectives of the Bachelor of Science in Industrial Engineering can be found at [http://www.me.uic.edu/programs/bsie\\_objectives.htm](http://www.me.uic.edu/programs/bsie_objectives.htm).

## Required for the Bachelor of Science in Industrial Engineering

(128 semester hours)

### Required Outside of the College of Engineering

	Hours
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Chem 112 —General College Chemistry I	5
Mgmt 340 —Introduction to Organizations	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
Phys 244 —General Physics III (Modern Physics)	3
Humanities electives	6
<i>Selected from the Course Distribution Chart in the College of Liberal Arts and Sciences from two different departments.</i>	
Social sciences electives	6
<i>Selected from the Course Distribution Chart in the College of Liberal Arts and Sciences from two different departments.</i>	
<i>One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.</i>	
<b>Total Hours</b>	<b>53</b>

## Required in the College of Engineering

	Hours
Engr 100 —Orientation	0
<i>Engr 100 carries one equivalent hour; does not carry credit towards graduation.</i>	
CEMM 200 —Statics and Dynamics	3
CEMM 203 —Strength of Materials	3
CS 108 —Fortran Programming for Engineers	3
ECE 210 —Electrical Circuit Analysis	3
IE 201 —Engineering Economy	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 396 —Senior Design I	5
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
<b>Total Hours</b>	<b>66</b>

## Technical Electives

	Hours
Students <i>must</i> complete one course from the list below:	
IE 392 —Undergraduate Research (3)	
ME 210 —Engineering Dynamics (3)	
ME 211 —Fluid Mechanics I (3)	
ME 325 —Intermediate Thermodynamics (3)	
ME 447 —Introduction to Computer-Aided Design (3)	
Any Industrial Engineering (IE) course at the 400-level <i>not</i> required above (3)	
<b>Total Hours</b>	<b>3</b>

## Electives Outside Major Rubric

	Hours
Students must complete electives outside the <i>IE</i> rubric.	
<b>Total Hours</b>	<b>6</b>

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Course Schedule for the Industrial Engineering Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Humanities/social sciences elective	3
Engr 100 —Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	
<b>Total Hours</b>	<b>17</b>

<b>Second Semester</b>	<b>Hours</b>
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Engl 161 —English Composition II	3
ME 250 —Engineering Graphics and Design	3
<b>Total Hours</b>	<b>15</b>

## SECOND YEAR

<b>First Semester</b>	<b>Hours</b>
Math 210 —Calculus III	3
Phys 142 —General Physics II (Electricity and Magnetism)	4
CS 108 —Fortran Programming for Engineers	3
IE 201 —Engineering Economy	3
CEMM 200 —Statics and Dynamics	3
<b>Total Hours</b>	<b>16</b>

<b>Second Semester</b>	<b>Hours</b>
Math 220 —Introduction to Differential Equations	3
Phys 244 —General Physics III (Modern Physics)	3
CEMM 203 —Strength of Materials	3
ME 205 —Introduction to Thermodynamics	3
Humanities/social sciences elective	3
<b>Total Hours</b>	<b>15</b>

## THIRD YEAR

<b>First Semester</b>	<b>Hours</b>
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
Humanities/social sciences electives	6
<b>Total Hours</b>	<b>19</b>

<b>Second Semester</b>	<b>Hours</b>
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
Elective outside of the major rubric	3
<b>Total Hours</b>	<b>15</b>

## FOURTH YEAR

<b>First Semester</b>	<b>Hours</b>
IE 461 —Safety Engineering	3
IE 464 —Industrial Automation	3
IE 467 —Industrial Systems Simulation	3
IE 471 —Operations Research I	3
Senior technical elective	3
<b>Total Hours</b>	<b>15</b>

<b>Second Semester</b>	<b>Hours</b>
IE 396 —Senior Design	5
IE 463 —Plant Layout and Materials Handling	3
IE 466 —Production Planning and Inventory Control	3
IE 472 —Operations Research II	3
Elective outside of the major rubric	3
<b>Total Hours</b>	<b>17</b>

## Minor in Industrial Engineering

For the minor, 12 semester hours excluding prerequisite courses. Students not majoring in Industrial Engineering who wish to minor in Industrial Engineering must complete the following:

	<b>Hours</b>
<b>Prerequisite Courses</b>	
CS 101 or 108	3
IE 201	3
Math 180, 181, 210, 220	16
<b>Total Hours</b>	<b>22</b>
<b>Required Courses</b>	
IE 342, 446, 463, 471	12
<b>Total Hours</b>	<b>12</b>

## Curriculum in Engineering Management

### *Bachelor of Science 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 (see *Graduation Requirements* in the section *College of Engineering*). No more than 32 hours may be taken in courses offered by the College of Business Administration.

### **Required for a Bachelor of Science in Engineering Management**

(128 semester hours)

### **Required Outside of the College of Engineering**

	<b>Hours</b>
Actg 110 —Introduction to Financial Accounting	3
Actg 111 —Introduction to Managerial Accounting	3
Chem 112 —General College Chemistry I	5
Econ 120 —Principles of Microeconomics	3
Econ 121 —Principles of Macroeconomics	3
Engl 160 —English Composition I	3
Engl 161 —English Composition II	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
Math 180 —Calculus I	5
Math 181 —Calculus II	5
Math 210 —Calculus III	3
Phys 141 —General Physics I (Mechanics)	4
Phys 142 —General Physics II (Electricity and Magnetism)	4
Humanities electives	6

*Selected from the Course Distribution Chart in the College of Liberal Arts and Sciences.*

Social sciences elective	3
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*Selected from the Course Distribution Chart in the College of Liberal Arts and Sciences from two different departments. May not be an Econ course.*

*One of the humanities/social sciences courses or electives outside of the major rubric (see below) must be approved for cultural diversity.*

<b>Total Hours</b>	<b>69</b>
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### Courses Required in the College of Engineering

	Hours
CEMM 200 —Statics and Dynamics	3
CEMM 203 —Strength of Materials	3
CS 108 —Fortran Programming for Engineers	3
ECE 210 —Electrical Circuit Analysis	3
Engr 100 —Engineering Orientation	0

*Engr 100 carries one equivalent hour; does not carry credit towards graduation.*

IE 201 —Engineering Economy	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

<b>Total Hours</b>	<b>55</b>
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### Elective Outside Major Rubric

	Hours
Students must complete an elective outside the IE rubric and the College of Business Administration.	3

<b>Total Hours</b>	<b>3</b>
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### Free Electives

	Hours
One semester hour.	
<b>Total Hours</b>	<b>1</b>

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

## Typical Course Schedule for the Engineering Management Major

### FIRST YEAR

First Semester	Hours
Math 180 —Calculus I	5
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Econ 120 —Principles of Microeconomics	3
Engr 100 —Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	
<b>Total Hours</b>	<b>17</b>

Second Semester	Hours
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics)	4
Engl 161 —English Composition II	3
Econ 121 —Principles of Macroeconomics	3
Free elective	1
<b>Total Hours</b>	<b>16</b>

### SECOND YEAR

First Semester	Hours
Math 210 —Calculus III	3
Phys 142 —General Physics II (Electricity and Magnetism)	4
IE 201 —Engineering Economy	3
Actg 110 —Introduction to Financial Accounting	3
CS 108 —Fortran Programming for Engineers	3
<b>Total Hours</b>	<b>16</b>

Second Semester	Hours
Actg 111 —Introduction to Managerial Accounting	3
CEMM 200 —Statics and Dynamics	3
ECE 210 —Electrical Circuit Analysis	3
Mgmt 340 —Introduction to Organizations	3
Mktg 360 —Principles of Marketing	3
<b>Total Hours</b>	<b>15</b>

### THIRD YEAR

First Semester	Hours
Humanities-social sciences elective	3
CEMM 203 —Strength of Materials	3
IE 341 —Ergonomics I	3
IE 342 —Probability and Statistics for Engineers	3
IE 365 —Methods Analysis and Work Measurement	4
<b>Total Hours</b>	<b>16</b>

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
Humanities-social sciences elective	3
<b>Total Hours</b>	<b>15</b>

## FOURTH 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
Humanities/social sciences elective	3
<b>Total Hours</b>	<b>18</b>
Second Semester	Hours
IE 463 —Plant Layout and Materials Handling	3
IE 466 —Production Planning and Inventory Control	3
IE 472 —Operations Research II	3
Elective outside of the IE rubric and the College of Business Administration	3
Mgmt 495 —Competitive Strategy	4
<b>Total Hours</b>	<b>16</b>

# Major Associated with the College of Liberal Arts and Sciences

## 123 Science and Engineering Offices

(312) 996-3463

**Advisers:** In Engineering: George Uslenghi. In the Department of Physics: Arthur L. Licht.

## Curriculum in Engineering Physics

### *Bachelor of Science in Engineering Physics*

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.

### Required for the Bachelor of Science in Engineering Physics

(128 semester hours)

#### Required Outside of the College of Engineering

	Hours
Chem 112 —General College Chemistry I	5
Phys 141 —General Physics I (Mechanics)	4
Phys 142 —General Physics II (Electricity and Magnetism)	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
Math 180 —Calculus I	5
Math 181 —Calculus II	5
Math 210 —Calculus III	3
Math 220 —Introduction to Differential Equations	3
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Humanities electives	6
Social sciences electives	6

*One of the humanities/social sciences courses or electives outside the major rubrics (see below) must be approved for cultural diversity.*

**Total Hours** **62**

#### Required in the College of Engineering

	Hours
CEMM 200 —Statics and Dynamics <sup>1</sup>	3
CEMM 203 —Strength of Materials	3
CEMM 260 —Properties of Materials	3

Senior Design Course(s), chosen from any department in the College of Engineering	5–7
Choose one of the following two courses:	3
ChE 201 —Introduction to Thermodynamics (3)	
ME 205 —Introduction to Thermodynamics (3)	
Choose one of the following two courses:	3
CS 102 —Introduction to Programming (3)	
CS 108 —Fortran Programming for Engineers (3)	
ECE 210 —Electrical Circuit Analysis	3
ECE 220 —Electromagnetics	3
ECE 310 —Discrete and Continuous Signals and Systems	3
ECE 320 —Transmission Lines	4
ECE 346 —Solid State Device Theory	4
Engr 100 —Orientation	0
<i>Engr 100 carries one equivalent hour; does not carry credit towards graduation.</i>	
IE 201 —Engineering Economy	3
ME 211 —Fluid Mechanics	3
Choose one of the following three courses:	3–4
CEMM/ME 436 —Intermediate Dynamics (3)	
ME 413 —Dynamics of Mechanical Systems (3)	
Phys 441 —Theoretical Mechanics (4)	

*Phys 441 offered by the Department of Physics in the College of Liberal Arts and Sciences.*

**Total Hours** **46-49**

<sup>1</sup> To be discontinued. Students may petition to substitute CEMM 201 or a suitable alternate.

#### Technical Electives

	Hours
Students must complete 11–14 semester hours from a list of technical electives available from the adviser. These courses are to be selected in consultation with the adviser and should be chosen from approved sequences in one or two of the following areas:	
• Bioengineering	
• Civil and Materials Engineering	
• Chemical Engineering Design	
• Chemical Engineering Multiphase Transport Phenomena	
• Chemical Engineering Chemical Process	
• Electrical Engineering and Computer Science Circuits	
• Electrical Engineering and Computer Science Communications, Signals, and Image Processing	
• Electrical Engineering and Computer Science Solid State and Microfabrication	
• Electrical Engineering and Computer Science Electromagnetics and Optics	
• Mechanical Engineering Thermal/Fluid Science	
• Mechanical Engineering Mechanical Systems	
• Modern Physics	11–14

#### Electives Outside Major Rubric

	Hours
Students must complete electives outside the <i>Phys</i> and <i>ECE</i> rubrics.	6
<b>Total Hours</b>	<b>6</b>

For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Engineering*.

# College of Engineering Courses

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## Bioengineering (Bioe)

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- 126 Physics in Medicine. 4 Hours.** Same as Physics 126. Introductory physics course where all the examples are taken from applications in medicine: blood flow, heartbeat, diagnostic and therapy radiations, from ultrasound to MRI. Prerequisite: High school algebra.
- 200 Introduction to Bioengineering. 1 Hour.** Overview of how the principles and techniques of engineering are applied to help solve problems in the medical and biological sciences.
- 240 Modeling Physiological Data and Systems. 1 Hour.** Open only to freshmen and sophomores. A lecture/discussion course introducing the use of mathematical models to describe, interpret and analyze physiological data and systems. Prerequisites: Bios 100.
- 396 Senior Design I. 3 Hours.** Design considerations for biomedical devices emphasizing traditional engineering design concepts. Prerequisites: Bioe 430 and Bioe 431 and Bioe 439.
- 397 Senior Design II. 3 Hours.** Application of principles of engineering and engineering design methodology to the solution of a large scale biomedical engineering design problem. Prerequisite: Bioe 396.
- 398 Undergraduate Research. 1 to 5 Hours.** Students may register for more than one section per term. Research under the close supervision of a faculty member. Prerequisite: Consent of the instructor.
- 407 Pattern Recognition I. 3 Hours.** Same as Electrical and Computer Engineering 407. 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. Prerequisite: Math 220.
- 415 Biomechanics. 3 Hours.** Use of rigid and deformable body statics and rigid body dynamics to analyze various aspects of the human musculoskeletal system. Prerequisites: CEMM 204 and ME 210 and either BioS 442 or 443.
- 420 Introduction to Field and Waves in Biological Tissues. 3 Hours.** Principles of electromagnetic and ultrasonic interaction with biological systems; characterization of biological materials; diagnostic and therapeutic uses; and techniques of dosimetry and measurement. Prerequisite: ECE 310.
- 421 Biomedical Imaging. 3 Hours.** Previously listed as Bioengineering 320. Extensive computer use required. Introduction to engineering and scientific principles associated with x-ray, magnetic resonance, ultrasound, computed tomography and nuclear imaging. Prerequisites: Math 210 and Phys 142.
- 430 Bioinstrumentation and Measurements I. 3 Hours.** Theory and application of instrumentation used for physiological and medical measurements. Characteristics of physiological variables, signal conditioning devices and transducers. Prerequisites: ECE 210 and credit or concurrent registration in either BioS 442 or 443.
- 431 Bioinstrumentation and Measurement Laboratory. 1 Hour.** Practical experience in the use of biomedical instrumentation for physiological measurements. Prerequisite: Credit or concurrent registration in Bioe 430.

- 432 Bioinstrumentation and Measurements II. 3 Hours.** Previously listed as Bioengineering 450. Principles of bioinstrumentation for the assessment of physiological function and therapeutic intervention. Prerequisite: Bioe 430.
- 433 Bioinstrumentation and Measurements II Laboratory. 1 Hour.** Laboratory experiments using instruments to assess physiological function. Prerequisite: Credit or concurrent registration in Bioe 432.
- 435 Introduction to Bioelectric Phenomena. 3 Hours.** Origin of bioelectric signals. Quasi-static formulation. Volume conduction. Bioelectrical imaging. Image processing. Forward and inverse problems. Biomagnetic fields. Medical application. Prerequisites: Senior or graduate standing and ECE 310 or consent of the instructor.
- 439 Biostatistics. 3 Hours.** Extensive computer use required. Recommend knowledge of MATLAB. Statistical treatment of data, model estimation, and inference are treated in a framework of biological experiments and attributes of data from such experiments. Prerequisites: Math 210 and CS 108; and consent of the instructor.
- 440 Biological Signal Analysis. 3 Hours.** Analysis of signals of biological origin. Transient signals. Stability analysis. Control. Probabilities, stochastic processes. Medical applications. Prerequisites: Senior or graduate standing; and ECE 310.
- 452 Biocontrol. 3 Hours.** 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. Prerequisites: ECE 310 and either BioS 442 or 443.
- 455 Introduction to Cell and Tissue Engineering. 3 Hours.** Foundation of cell and tissue engineering covering cell technology, construct technology, and cell-substrate interactions. Emphasis in emerging trends and technologies in tissue engineering. Prerequisites: BIOS 100 and CEMM 260 or the equivalent.
- 456 Cell and Tissue Engineering Laboratory. 2 Hours.** Includes polymer scaffold fabrication, microstamping biomolecules, cellular adhesion and proliferation assays, and immuno/fluorescent tagging. Prerequisite: Bioe 455 or consent of the instructor.
- 460 Materials in Bioengineering. 3 Hours.** Analysis and design considerations of problems associated with prostheses and other implanted biomedical devices. Prerequisites: CEMM 260 and either BioS 442 or 443.
- 470 Bio-Optics. 3 Hours.** Physical principles and instrumentation relevant to the use of light in biomedical research. Several current and developing clinical applications are explored. Prerequisite: Phys 142.
- 472 Models of the Nervous System. 3 Hours.** 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. Prerequisites: ECE 310 and either BioS 442 or 443.

- 475 Neural Engineering I: Introduction to Hybrid Neural Systems. 3 Hours.** Same as Biological Sciences 475. Previously listed as Bioe 474. 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. Prerequisites: Bios 442 and credit or concurrent registration in Bioe 472.
- 476 Neural Engineering I Laboratory. 1 Hour.** Animals used in instruction. Hands-on experience with computational and experimental models of engineered neural systems with emphasis on neuroprostheses and biosensors. Prerequisites: Credit or concurrent registration in Bioe 475.
- 480 Introduction to Bioinformatics. 3 Hours.** Computational analysis of genomic sequences and other high throughput data. Sequence alignment, dynamic programming, database search, protein motifs, cDNA expression array, and structural bioinformatics. Prerequisites: BioS 100 and CS 201, or consent of the instructor.
- 481 Bioinformatics Laboratory. 1 Hour.** This laboratory will teach 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. Prerequisites: Senior standing or above and consent of the instructor; and credit or concurrent registration in Bioe 480.
- 482 Introduction to Optimization Methods in Bioinformatics. 3 Hours.** Extensive computer use required. 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. Prerequisites: Bios 100 and CS 201.
- 494 Special Topics in Bioengineering. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Special topics to be arranged. Prerequisite: Consent of the instructor.

## Chemical Engineering (ChE)

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- 201 Introduction to Thermodynamics. 3 Hours.** 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. Prerequisites: Math 181 and Phys 141.
- 210 Material and Energy Balances. 4 Hours.** Material and energy balances applied to chemical systems. Introduction to chemical and physical properties. Introduction to the use of computers for chemical process calculations. Prerequisites: ChE 201 and CS 108.
- 301 Chemical Engineering Thermodynamics. 3 Hours.** Review of classical engineering thermodynamics. Multicomponent systems and multicomponent phase equilibria. Equilibrium in chemically reacting systems, heterogeneous equilibrium, Gibbs phase rule, and electrochemical processes. Prerequisites: ChE 201 and credit or concurrent registration in Chem 342.
- 311 Transport Phenomena I. 3 Hours.** Momentum transport phenomena in chemical engineering. Fluid statics. Fluid mechanics; laminar and turbulent flow; boundary layers; flow over immersed bodies. Prerequisite: Credit or concurrent registration in ChE 210.



**312 Transport Phenomena II. 3 Hours.**

Heat and mass transport phenomena. Heat conduction, convection, and radiation. Heat exchanger design. Diffusion. Mass transfer coefficients. Prerequisite: ChE 311.

**313 Transport Phenomena III. 3 Hours.**

Mass transfer and phase equilibria. Multistage separations; applications in distillation; extraction; absorption and drying. Prerequisite: ChE 301.

**321 Chemical Reaction Engineering. 3 Hours.**

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. Prerequisites: ChE 210 and 301.

**341 Chemical Process Control. 3 Hours.**

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. Prerequisites: Math 220, ChE 312, ChE 313, and ChE 321.

**381 Chemical Engineering Laboratory I. 2 Hours.**

Heat and momentum transfer operations associated with chemical processes. These include heat exchangers, fluid properties, and fluid flow. Technical report writing, computer calculations. Prerequisite: ChE 312.

**382 Chemical Engineering Laboratory II. 2 Hours.**

Heat momentum and mass transfer operations associated with chemical processes; these include distillation columns, reactors, humidifiers, and evaporators. Prerequisites: ChE 381 and concurrent registration in ChE 313.

**392 Undergraduate Research. 1 to 3 Hours.**

May be repeated for credit. Students may register for more than one section per term. Undergraduate research project in any area of chemical engineering. Projects may be theoretical, experimental, or literature surveys. Prerequisite: Consent of the instructor.

**396 Senior Design I. 4 Hours.**

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. Prerequisites: ChE 312, 313, and 321.

**397 Senior Design II. 3 Hours.**

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: ChE 396.

**410 Transport Phenomena. 3 Hours.**

Continuum theory of momentum, energy, and mass transfer. Viscous behavior of fluids. Laminar and turbulent flow. Thermal conduction and convection, diffusion and coupled operations. Prerequisite: ChE 312 or consent of the instructor.

**413 Introduction to Flow in Porous Media. 3 Hours.**

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. Prerequisite: ChE 312 or consent of the instructor.

**421 Combustion Engineering. 3 Hours.**

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. Prerequisites: ChE 301 and 321.

**422 Biochemical Engineering. 3 Hours.**

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. Prerequisite: Consent of the instructor.

**423 Catalytic Reaction Engineering. 3 Hours.**

Catalytic reactions that occur under conditions for which heat and mass transfer cannot be neglected are considered. Includes porosimetry, surface area measurements and catalyst deactivation. Prerequisite: ChE 321 or consent of the instructor.

**431 Numerical Methods in Chemical Engineering. 3 Hours.**

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. Prerequisite: Graduate or advanced undergraduate standing.

**440 Non-Newtonian Fluids. 3 Hours.**

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. Prerequisite: ChE 410 or consent of the instructor.

**441 Computer Applications in Chemical Engineering. 3 Hours.**

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. Prerequisite: Senior standing in chemical engineering.

**445 Mathematical Methods in Chemical Engineering. 3 Hours.**

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. Prerequisite: Math 220 or the equivalent.

**450 Air Pollution Engineering. 4 Hours.**

Same as Mechanical Engineering 450. Environmental aspects of combustion processes, pollutant formation. Control of pollutants and particulates. Air quality control. Fundamentals of combustion. Prerequisite: ME 321 or consent of the instructor.

**494 Selected Topics in Chemical Engineering. 1 to 4 Hours.**

May be repeated for credit. Students may register for more than one section per term. Systematic study of selected topics in chemical engineering theory and practice. Prerequisite: Consent of the instructor.

**Civil Engineering, Mechanics, and Metallurgy (CEMM)****200 Statics and Dynamics. 3 Hours.**

Equilibrium of particles and rigid bodies. Kinematics and kinetics of particles and plane rigid bodies in general coordinates. Work, energy, momentum principles. Prerequisites: Math 181 and Phys 141.

**201 Statics. 3 Hours.**

Analysis of forces, equilibrium of two- and three-dimensional structures, frames and machines. Friction, centroids, virtual work and energy. Prerequisites: Math 181 and Phys 141.

**203 Strength of Materials. 3 Hours.**

Relationships between the stresses and strains within a deformable body. Axially loaded members, torsion and the bending of bars. Stress transformation equations. Column theory. Prerequisites: CEMM 200 or 201, and Math 210.

**205 Structural Analysis I. 3 Hours.**

Analysis of trusses, beams and frames. Classical methods and analysis with microcomputers. Displacements, shear and bending moments, influence lines. Prerequisite: CEMM 203.

**215 Hydraulics and Hydrology. 3 Hours.**

Hydraulics of pipe flow, open channel flow, and hydraulic machinery. Ground water and surface water hydrology. Prerequisite: ME 211.

**216 Introduction to Environmental Engineering. 3 Hours.**

Environmental engineering and design for air, water, and soil problems. Interactive effects of man-made projects on resources and the environment. Prerequisite: Credit or concurrent registration in ME 211.

**260 Properties of Materials. 3 Hours.**

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. Prerequisites: Chem 112, Math 181, and Phys 141.

**261 Materials for Manufacturing. 2 Hours.**

Same as Mechanical Engineering 261. Credit is not given for CEMM 261 if the student has credit in CEMM 260. Introductory-level course in materials engineering to familiarize students with relationships between processing, structure and properties of materials used to manufacture devices. Prerequisites: Chem 112, Math 181, and Phys 141.

**300 Composition and Properties of Concrete. 2 Hours.**

Properties and types of cements and aggregates, hydration, mix design, properties of fresh and hardened concrete. Prerequisites: CEMM 203.

**301 Behavior and Design of Metal Structures. 3 Hours.**

Design of metal structures, behavior of members and their connections, theoretical, experimental and practical basis for proportioning members. Prerequisite: CEMM 205.

**302 Transportation Engineering. 3 Hours.**

Extensive computer use required. Field trips and computer laboratory required. Fundamentals of transportation engineering. Design, operations and planning of transportation systems of various technologies, emphasizing road and public transit. Prerequisites: ME 210; and CS 107 or CS 108.

- 310 Design of Reinforced Concrete Structures. 3 Hours.** Analysis and design of reinforced concrete structural elements: beams, slabs, columns, and foundations. Use of current building codes. Prerequisites: CEMM 205.
- 315 Soil Mechanics and Laboratory. 4Hours.** 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: CEMM 203 and ME 211, or consent of the instructor.
- 359 Mechanical Vibrations. 3 Hours.** Same as Mechanical Engineering 308. Free and forced vibrations of damped linear single and multiple degree of freedom systems. Approximate methods, instrumentation, and applications. Prerequisites: ME 210 and Math 220.
- 392 Undergraduate Research. 1 to 3 Hours.** Research and in depth study of a subject of interest under the close supervision of a faculty member. A report is required. Prerequisite: Senior standing.
- 394 Undergraduate Seminar. 1 to 3 Hours.** Students conduct an in depth study of areas of engineering of special interest to them that will be presented to the class in a seminar format. Prerequisite: Senior standing.
- 396 Senior Design I. 3 Hours.** Introduction to design process and methodologies. Aspects of deterministic and probabilistic design. Optimization theory and methods in design. Preparation of senior design projects. Prerequisites: Senior standing and 6 hours of design courses in the department.
- 397 Senior Design II. 3 Hours.** 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: CEMM 396.
- 400 Advanced Design of Reinforced Concrete Structures. 3 Hours.** 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. Prerequisite: CEMM 310 or the equivalent.
- 401 Advanced Design of Metal Structures. 3 Hours.** Plate girders; unsymmetrical bending; torsion of thin-walled structures; lateral-torsional instability; composite construction. Prerequisite: CEMM 301.
- 402 Geometric Design of Highway Facilities. 3 Hours.** Elements of geometric design. Driver, vehicle, and roadway system characteristics. Horizontal and vertical alignment design. Intersection design and operation. Capacity and level of service. Prerequisite: CEMM 302.
- 403 Hydraulic Design. 3 Hours.** Selected applications of hydraulics and hydrology: pipe, pipe network and water distribution system design; unsteady pipe flow; open channel design; storm water engineering. Prerequisite: CEMM 215.
- 404 Urban and Regional Transportation Methods. 3 Hours.** Same as Urban Planning and Policy 461. Methods and models for analyzing and forecasting transportation requirements, costs and capacities. Prerequisite: Consent of the instructor.
- 405 Foundation Analysis and Design. 3 Hours.** Site characterization; analysis and design of shallow foundations, deep foundations and earth retaining structures; foundations on difficult soils; effects of construction; instrumentation and monitoring. Prerequisite: CEMM 315.
- 406 Bridge Design. 3 Hours.** 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. Prerequisite: CEMM 301 and 310.
- 407 Soil and Site Improvement Methods. 3 Hours.** 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. Prerequisite: CEMM 315.
- 409 Structural Analysis II. 3 Hours.** Approximate analysis of structures including trusses and multistory frames. Influence lines, cables and arches. Principles of limit analysis for structures and structural elements. Prerequisite: CEMM 205 or consent of the instructor.
- 410 Design of Prestressed Concrete Structures. 3 Hours.** Principles of prestressed concrete. Analysis and design of statically determinate prestressed concrete members. Introduction to design and detailing of connections. Prerequisite: CEMM 310.
- 411 Chemistry for Environmental Professionals. 3 Hours.** Same as Environmental and Occupational Health Sciences 440. Fundamentals of chemistry for environmental health professionals and engineers. Concepts of inorganic, physical, organic and colloid chemistry. Chemistry related to air pollution, water and wastewater treatment. Prerequisite: One year of college chemistry.
- 412 Water Quality Management. 3 Hours.** Same as Environmental and Occupational Health Sciences 411. Water pollution; historical and current developments in problems and solutions: characterization, water purification, waste treatment, modeling, standards and criteria, public health concerns. Prerequisites: EOHS 405 or consent of the instructor.
- 413 Analysis of Water and Wastewater Quality. 2 Hours.** Same as Environmental and Occupational Health Sciences 418. Basic instrumentation and procedures related to measurement and surveillance of various water quality parameters.
- 415 Environmental Geotechnology. 3 Hours.** 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. Prerequisite: CEMM 315.
- 419 Air-Quality Management I. 3 Hours.** Same as Environmental and Occupational Health Sciences 431. Sources, control, dispersion, and effects upon receptors of air pollution; health and other adverse effects, meteorology and dispersion estimation, photochemistry, aerosol characterization. Prerequisite: EOHS 405 or CEMM 216 or consent of the instructor.
- 420 Water and Wastewater Analysis Laboratory. 3 Hours.** Laboratory class for environmental engineering. Analysis of water, wastewater and soil for nutrients, pollutants, physical parameters and biological parameters. Prerequisite: CEMM 216 or graduate standing.
- 421 Water Treatment Design. 3 Hours.** Field trip required at a nominal fee. Water quality control systems. Physical-chemical unit processes applied to systems designed for treatment of municipal and industrial waters. Prerequisite: CEMM 216
- 422 Biological Wastewater Treatment Design. 3 Hours.** Field trip required at a nominal fee. Processes involved in the biological treatment of wastewater. Aerobic and anaerobic treatment, sludge stabilization, and nutrient removal. Prerequisite: CEMM 216 or the equivalent.
- 423 Management of Solid and Hazardous Wastes. 3 Hours.** Same as Environmental and Occupational Health Sciences 472 and Geography 444. 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.
- 425 Environmental Remediation Engineering. 3 Hours.** Sources of contamination, regulations, site characterization, impact assessment, waste disposal and containment options, waste treatment options, case studies. Prerequisite: CEMM 315.
- 430 Theory of Elasticity I. 3 Hours.** 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. Prerequisites: CEMM 204 and Math 481 or the equivalents.
- 431 Introduction to Continuum Mechanics. 3 Hours.** Vectors and tensors, stress, principal stresses and principal axes, deformation, compatibility conditions, constitutive equations, isotropy and mechanical properties of fluids and solids. Prerequisites: CEMM 204 and ME 211.
- 432 Energy Methods in Mechanics. 3 Hours.** Variational theorems of elasticity. Applications to establish approximate systems and their solution. Beams (including shear deformation). Introduction to instability theory. Prerequisite: CEMM 205.
- 433 Fracture Mechanics and Failure Analysis I. 3 Hours.** 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. Prerequisite: CEMM 430.
- 434 Finite Element Analysis I. 3 Hours.** 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. Prerequisites: CEMM 205 or ME 401 and CS 108.
- 435 Theory of Vibrations I. 3 Hours.** Analytical and numerical treatment of linear, discrete systems. Nonlinear discrete systems. Prerequisites: CEMM 200 or the equivalent and Math 220.

- 450 Probability and Reliability in Structural Design. 3 Hours.** 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. Prerequisite: Consent of the instructor.
- 453 Experimental Stress Analysis. 3 Hours.** Structural similitude and dimensional analysis. Strain measurement techniques. Introduction to photoelasticity. Prerequisite: CEMM 430.
- 454 Structural Analysis and Design of Tall Buildings. 3 Hours.** State-of-the-art introduction to structural analysis and design of tall buildings. Load impact on different structural systems. Prerequisite: CEMM 401 or CEMM 409 or the equivalent, or consent of instructor. Major structural analysis and design courses are recommended.
- 460 Crystallography and X-Ray Diffraction. 4 Hours.** Fundamentals of crystallography. Theory of x-ray diffraction, experimental methods and applications. Prerequisite: CEMM 260.
- 470 Physical and Mechanical Properties of Materials. 4 Hours.** Basic metallurgical phenomena; kinetics and phase stability; diffusion and transformation rates. Mechanical properties of materials; creep; fatigue and fracture. Prerequisite: CEMM 260.
- 471 Thermodynamics of Materials. 3 Hours.** Application of chemical and thermodynamic principles to processing and characterization of materials. Prerequisite: CEMM 260.
- 480 Welding Metallurgy. 4 Hours.** Metallurgy of metals joining processes. Selection of processes and design of products manufactured by joining processes. Prerequisite: CEMM 368.
- 493 Seminar. 1 to 3 Hours.** Topics of mutual interest to a faculty and a group of students. Offered as announced in the timetable.
- 494 Special Topics in Civil Engineering, Mechanics, and Materials. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Subject matter varies from section to section and from semester to semester, depending on the specialties of the instructor. Prerequisite: Consent of the instructor.
- 496 Special Problems. 1 to 4 Hours.** Special problems or reading by special arrangement with a faculty member. Prerequisite: Consent of the instructor.

## Computer Science (CS)

*Note: Courses under this rubric were previously listed under Electrical Engineering and Computer Science (EECS).*

- 100 Computer Literacy. 3 Hours.** 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. 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.
- 101 Introduction to Computing. 3 Hours.** Previously listed as EECS 101. 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.
- 102 Introduction to Programming. 3 Hours.** Previously listed as EECS 171. Programming languages and program design; data types and operators, expressions, control structures, procedures and modularity. Language definition and programming laboratory. Prerequisites: CS 101 or consent of the instructor and credit or concurrent registration in Math 180.
- 107 Introduction to Computing and Programming. 4 Hours.** Credit is not given for CS 107 if the student has credit in CS 102 or EECS 171. Access and use of computing resources. Programming and program design. Problem solving. Data types, control structures, modularity, information hiding. Prerequisite: Credit or concurrent registration in Math 180.
- 108 FORTRAN Programming for Engineers. 3 Hours.** Previously listed as EECS 170. Program design using FORTRAN: data types and operators; control structures; subprograms, file I/O; common storage. Engineering applications: matrix representations and operations; equation solutions. Programming assignments. Prerequisite: Credit or concurrent registration in Math 180.
- 201 Data Structures and Discrete Mathematics I. 4 Hours.** Previously listed as EECS 260. Credit is not given for CS 201 if the student has credit in MCS 261. Lists, stacks, queues, sets, hash tables, introduction to trees and graphs. Algorithm correctness and complexity, inductive proofs, logic. Programming projects. Prerequisites: Math 180 and a grade of C or better in CS 102 or in CS 107.
- 202 Data Structures and Discrete Mathematics II. 3 Hours.** Previously listed as EECS 360. Combinatorics; complex data structures: trees, heaps, and graphs. Sorting and searching algorithms. Programming projects. Prerequisite: Grade of C or better in CS 201.
- 266 Computer Architecture I: Logic and Computer Structures. 4 Hours.** Credit is not given for CS 266 if the student has credit in EECS 265 or EECS 365 or EECS 366 or ECE 265 or ECE 267 or ECE 366. 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. Prerequisite: CS 102.
- 301 Languages and Automata. 3 Hours.** Previously listed as EECS 361. Regular sets and finite automata. Context-free languages and push-down automata. Parsing. Computability theory including Turing machines and decidability. Prerequisites: Grade of C or better in CS 201 and credit or concurrent registration in CS 202.
- 335 Computer Ethics. 2 Hours.** Previously listed as EECS 375. Ethical, societal and environmental issues for computer professionals. Professional ethics, software ownership, unreliability, responsibility, privacy, computer crime, veracity, expert systems, workplace and health issues. Prerequisite: CS 202.

- 340 Software Design. 4 Hours.** Previously listed as EECS 370. 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. Prerequisite: CS 202.
- 366 Computer Architecture II: Hardware-Software Interface. 4 Hours.** Credit is not given for CS 366 if the student has credit in EECS 265 or EECS 365 or EECS 366 or ECE 265 or ECE 267 or ECE 366. 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. Prerequisite: CS 266.
- 376 Practicum in Computer Science Presentations. 1 Hour.** Techniques for effective presentation of computer science topics: terminology, organization, visual aides and delivery of technical talks; presentations and presentation evaluation required. Prerequisites: Engl 161 and CS 102.
- 385 Operating Systems Concepts and Design. 4 Hours.** Previously listed as EECS 371. 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. Prerequisites: CS 201 and either CS 366 or ECE 267.
- 398 Undergraduate Design/Research. 3 Hours.** Previously listed as EECS 398. Design and/or research experience for undergraduate computer science majors under close supervision of a computer science faculty member. Prerequisite: Consent of the instructor.
- 401 Computer Algorithms I. 3 Hours.** Previously listed as EECS 460. Same as Mathematical Computer Science 401. 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. Prerequisites: Grades of C or better in Stat 381 and MCS 360; or CS 202.
- 411 Artificial Intelligence I. 3 Hours.** Previously listed as EECS 484. Problem representation; rule-based problem-solving methods; heuristic search techniques. Application to expert systems, theorem proving, language understanding. Individual projects. Prerequisite: CS 202.
- 415 Computer Vision I. 3 Hours.** Previously listed as EECS 487. Computer vision system design. Segmentation and representation of regions and boundaries; image filtering; object recognition; advanced topics (examples: texture, stereo, color); applications. Programming assignments. Prerequisite: CS 202 or MCS 360 or consent of the instructor.
- 421 Natural Language Processing. 3 Hours.** Design of natural language processing systems; part-of speech tagging, statistical and symbolic parsers; semantic interpretation; discourse and dialogue processing; natural language generation; applications. Prerequisite: CS 301 or MCS 441.



**422 User Interface Design and Programming. 3 Hours.** Previously listed as EECS 478. User interface design, implementation, and evaluation; user-centered design methodologies, windowing systems, I/O devices and techniques, event-loop programming, user studies. Programming projects. Prerequisite: CS 340.

**426 Multimedia Computing. 3 Hours.** Processing multimedia information including video, images, audio, text, and specialty data. Multimedia sources, formats, operations, and algorithms. Implementation projects. Prerequisite: CS 202 or MCS 360 or consent of the instructor.

**440 Introduction to Software Engineering. 3 Hours.** Previously listed as EECS 470. Software life-cycle model, requirement specification techniques, large-scale software design techniques and tools, implementation issues, testing and debugging techniques, software maintenance. Prerequisite: CS 340.

**441 Distributed Object Programming Using Middleware. 3 hours.** Extensive computer use required. Design and implementation of distributed object programs using middleware software standards; interface definition languages and programming language mappings; static and dynamic object communication mechanisms. Prerequisites: CS 340 and CS 385.

**450 Introduction to Networking. 3 Hours.** Credit is not given for CS 450 if the student has credit in EECS 433 or ECE 433. Network protocols, algorithms, and software issues. Topics include the open systems interconnect model, data link, network and transport layers, TCP/IP, ATM, mobile networks. Prerequisites: CS 202 and CS 385, and either Stat 381 or Stat 401 or IE 342.

**455 Design and Implementation of Network Protocols. 3 Hours.** 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. Prerequisites: CS 340 and CS 450.

**466 Advanced Computer Architecture. 3 Hours.** Credit is not given for CS 466 if the student has credit in EECS 466 or ECE 466. Design of high performance computer architecture. Cost-performance; instruction sets; pipelining; memory hierarchy; I/O. Prerequisite: CS 366.

**469 Computer Systems Design. 3 Hours.** Credit is not given for CS 469 if the student has credit in EECS 469 or ECE 368 or ECE 469. Analysis and modeling of digital systems; hardware description languages; CAD tools for simulation, synthesis, and verification of computer systems. Project: a simple processor design. Prerequisite: CS 366.

**473 Compiler Design. 3 Hours.** Previously listed as EECS 473. Same as Mathematical Computer Science 411. Language translation: lexical analysis, parsing schemes, symbol table management, syntax and semantic error detection, and code generation. Development of fully-functional compiler. Prerequisites: Grade of C or better in either CS 301 or MCS 441, and in either CS 202 or MCS 360 and CS 266.

**474 Object-Oriented Languages and Environments. 3 Hours.** Previously listed as EECS 474. Data abstraction, classes and objects, messages and methods, polymorphism and dynamic binding, inheritance. Object-oriented design. Pure and hybrid object-oriented languages. Prerequisite: CS 340.

**475 Object-Oriented Programming. 3 Hours.** No credit given if the student has credit in CS 340 or CS 474. OO Paradigm: classes, messages, methods, variables, inheritance, polymorphism; the C + + and Java languages; programming labs required. Extensive computer use required. Prerequisite: CS 202; and consent of the instructor.

**476 Programming Language Design. 3 Hours.** Previously listed as EECS 476. Same as Mathematical Computer Science 415. 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. Prerequisites: MCS 360 or CS 340.

**480 Database Systems. 3 Hours.** Previously listed as EECS 480. Database design, logical design, physical design. Relational databases. Recovery, concurrency control. Normalization. Prerequisite: CS 202.

**485 Networked Operating Systems Programming. 4 Hours.** Previously listed as EECS 471. Concepts, design, and programming of multi-process and distributed systems; inter-process communications; fault tolerance; distributed programming semantics. Programming assignments and project required. Prerequisite: CS 385.

**488 Computer Graphics I. 3 Hours.** Previously listed as EECS 488. Same as Art and Design 488. Principles of interactive computer graphics. Raster and vector display, techniques and hardware considerations. Introduction to two-dimensional and three dimensional rendering. Laboratory. Prerequisite: Credit or concurrent registration in CS 340.

**491 Seminar. 1 to 4 Hours.** Previously listed as EECS 491. May be repeated for credit. Topics of mutual interest to a faculty member and a group of students. Offered as announced by department bulletin or the Timetable. Prerequisite: Consent of the instructor.

**493 Special Problems. 2 to 4 Hours.** Previously listed as EECS 493. No graduate credit for computer science majors. Special problems or reading by special arrangement with the faculty. Prerequisite: Consent of the instructor.

## Electrical and Computer Engineering (ECE)

*Note: Courses under this rubric were previously listed under Electrical Engineering and Computer Science (EECS).*

**100 The Digital Information Age. 3 Hours.** Previously listed as EECS 100. No graduation credit for students enrolled in the Major in Electrical Engineering. 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). Prerequisite: Math 090 or the equivalent.

**200 History of Engineering. 3 Hours.** Previously listed as EECS 200. Open to all students. Survey of the major contributions in technology and engineering from ancient times to the present. The effects of engineering on culture and society. Prerequisite: Sophomore standing.

**210 Electrical Circuit Analysis. 3 Hours.** Previously listed as EECS 210. Credit is not given for ECE 210 if the student has credit in ECE 225. Linear circuit analysis: networks, network theorems, dependent sources, operational amplifiers, energy storage elements, transient analysis, sinusoidal analysis, frequency response, filters. Laboratory. Prerequisites: Phys 142 and credit or concurrent registration in Math 220.

**220 Electromagnetics. 3 Hours.** Credit is not given for ECE 220 if the student has credit in EECS 321 or Phys 142. Vector calculus. Static electric and magnetic fields for engineers. Kirchhoff's and Ohm's Laws. Faraday's Law. Mutual Induction. Maxwell's equations. Plane-waves in wireless communications. Prerequisites: Phys 141 and Math 181 and credit or concurrent registration in ECE 221.

**221 Electromagnetic Laboratory. 1 Hour.** Experiments concerned with engineering applications of electric and magnetic fields related to ECE 220. TV cable transmission measurement. Antenna power measurement. Prerequisite: Credit or concurrent registration in ECE 220.

**225 Circuit Analysis. 4 Hours.** Credit is not given for ECE 225 if the student has credit in ECE 210 or EECS 210. Electric circuit elements; Ohm's Law; Kirchhoff's laws; transient and steady-state analysis of circuits; Laplace transform methods; network theorems; laboratory. Prerequisites: Math 220 and either ECE 220 or Phys 142.

**265 Introduction to Logic Design. 3 Hours.** Previously listed as EECS 265. Credit is not given for ECE 265 if the student has credit in CS 266 or CS 366. Design of digital circuits with digital integrated circuit components. Binary arithmetic and codes. Logic gates, Boolean functions, minimization. Analysis and synthesis of combinational and sequential circuits. Computer organization. Laboratory. Prerequisite: Math 180.

**267 Computer Organization and Programming. 3 Hours.** Previously listed as EECS 365. Credit is not given for ECE 267 if the student has credit in CS 266 or CS 366. Introduction to computer organization and assembly language programming. Memory, CPU, and I/O organization. Programming techniques and tools. Programming laboratory. Prerequisite: CS 102 or CS 107 or CS 108.

**310 Discrete and Continuous Signals and Systems. 3 Hours.** Previously listed as EECS 310. Signals; systems; convolution; discrete and continuous Fourier series and transforms; Z-transforms; Laplace transforms; sampling; frequency response; applications; computer simulations. Prerequisite: Math 220.

**311 Communication Engineering. 4 Hours.** Previously listed as EECS 311. Continuous-time signals and spectra; amplitude and angle modulation, sampling and quantization theory; digital pulse modulation, error probability, commercial broadcasting practices. Prerequisite: ECE 310.



- 317 Digital Signal Processing I. 4 Hours.** Previously listed as EECS 417. Sampling theorem; discrete signals and systems; discrete time Fourier transform; DFT; FFT; IIR and FIR digital filter design; stability; DSP applications; laboratory. Prerequisite: ECE 310.
- 320 Transmission Lines. 4 Hours.** Previously listed as EECS 320. Transmission line parameters and equations. Time harmonic waves. Lossy and lossless lines. Resonance. Transmission Chart. Transient and nonlinear phenomena. Three phase systems. Wide band. Prerequisite: ECE 225.
- 322 Communication Electromagnetics. 3 Hours.** Previously listed as EECS 322. 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. Prerequisites: ECE 221 and either ECE 220 or Phys 142.
- 333 Computer Communication Networks I. 4 Hours.** Previously listed as EECS 433 or ECE 433. Laboratory. Credit is not given for ECE 333 if the student has credit in CS 450. Overview of networks, physical layer, data link protocols, multiple access, local area networks, network layer, Internet, ATM, routing, congestion control, IP protocol, transport layer. Prerequisite: ECE 341 and CS 107.
- 340 Electronics I. 4 Hours.** Previously listed as EECS 340. Operational amplifiers. Semiconductor junctions. Bipolar and field-effect transistors. Simple transistor amplifier and switching applications. Introduction to digital logic circuits. Laboratory experience. Prerequisite: ECE 225.
- 341 Probability and Random Processes for Engineers. 3 Hours.** Credit is not given for ECE 341 if the student has credit in IE 342. Probability, random variables, discrete and continuous distributions, transformation of random variables, expectation, generating functions, statistical inference, hypothesis testing, estimation, random processes, stationarity, applications. Prerequisite: Math 210.
- 342 Electronics II. 4 Hours.** Previously listed as EECS 342. Laboratory. Differential amplifiers. Feedback amplifiers. Frequency response, stability and compensation of amplifiers. Circuit implementation of logic gates in various logic families. Bistable and memory circuits. Prerequisite: ECE 340.
- 346 Solid State Device Theory. 4 Hours.** Previously listed as EECS 346. Electron and hole transport mechanisms in semiconductor devices, recombination and generation, P-N junctions, bipolar junction transistors and metal-oxide-semiconductor field effect transistors. Practical laboratory. Prerequisites: ECE 221 and Math 220.
- 347 Integrated Circuit Engineering. 3 Hours.** Previously listed as EECS 347. Introduction to processing technology of integrated circuits: thin film deposition, doping, oxidation, epitaxy and lithography. Design, layout, assembly, testing and yield. Design project. Prerequisites: Chem 112 and ECE 225.
- 350 Principles of Automatic Control. 4 Hours.** Previously listed as EECS 450. 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. Prerequisite: ECE 310.
- 366 Computer Architecture. 3 Hours.** Previously listed as EECS 366. Credit is not given for ECE 366 if the student has credit in CS 266 or CS 366. 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. Prerequisites: ECE 265 and ECE 267.
- 367 Microprocessor-Based Design. 4 Hours.** Previously listed as EECS 367. Laboratory. 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. Prerequisites: ECE 265 and ECE 267; or CS 366.
- 368 CAD-Based Digital Design. 4 Hours.** Laboratory. Credit is not given for ECE 368 if the student has credit in CS 469. CAD tools and VHDL programming for combinational and sequential circuit design, FPGA implementation of complex circuits, design project using CAD tools, FPGA implementations. Prerequisite: ECE 366.
- 392 Undergraduate Research. 2 to 4 Hours.** Previously listed as EECS 392. Research under close supervision of a faculty member. Prerequisite: Consent of the instructor.
- 396 Senior Design I. 2 Hours.** Previously listed as EECS 396. Introduction to the principles and practice of product design: specifications, evaluation of design alternatives, technical reports, and oral presentations. Independent design projects. Prerequisites: Engl 161. Open only to seniors.
- 397 Senior Design II. 2 Hours.** Previously listed as EECS 397. 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. Prerequisite: ECE 396.
- 400 Introduction to Microelectromechanical Systems. 3 Hours.** Previously listed as EECS 400. Definition, classification and case studies of transducers, sensors and actuators. Microfabrication methods for microelectromechanical systems (MEMS). Design, simulation and modeling of MEMS. Prerequisites: ECE 220 and ECE 346; or the equivalent.
- 401 Quasi-Static Electric and Magnetic Fields. 3 Hours.** Previously listed as EECS 401. 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. Prerequisite: ECE 220 or the equivalent.
- 407 Pattern Recognition I. 3 Hours.** Previously listed as EECS 407. Same as Bioengineering 407. 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. Prerequisite: Math 220.
- 410 Network Analysis. 3 Hours.** Previously listed as EECS 410. Matrix algebra for network analysis. Introductory network topology. Matrix loop, node, and state variable equations. Network functions and theorems. Topics in computer-aided analysis. Prerequisites: ECE 225 and ECE 310.
- 412 Introduction to Filter Synthesis. 3 Hours.** Previously listed as EECS 412. Fundamentals of network synthesis, filter approximations and frequency transformations. Active filter synthesis using bi-linear and bi-quad circuits. Topics in computer-aided design. Prerequisites: ECE 225 and ECE 310.
- 415 Image Analysis and Machine Vision. 3 Hours.** Previously listed as EECS 415. Image formation, geometry and stereo. Two-dimensional image analysis by Fourier and other 2D transforms. Image enhancement, color, image segmentation, compression, feature extraction, object recognition. Prerequisite: ECE 310 or Math 310.
- 418 Digital Signal Processing II. 3 Hours.** Previously listed as EECS 418. Computer-aided design of digital filters; quantization and round-off effects; FFT algorithms; number-theoretic algorithms; Hilbert transform; complex cepstrum; multirate signal processing; linear filtering; system identification; matching. Prerequisite: ECE 317.
- 420 Introduction to Microwave Engineering. 3 Hours.** Previously listed as EECS 420. TEM waves in coaxial and strip lines; TE and TM waves in rectangular and circular wave guides; components; resonators. Laboratory and computer simulation required. Prerequisite: ECE 322.
- 421 Introduction to Antenna Engineering. 3 Hours.** Previously listed as EECS 421. Radiation; antenna parameters; theorems of antenna; radiation from linear wire and loop antennas; impedance; linear arrays; traveling wave wire antennas. Design project and computer simulation required. Prerequisite: ECE 322.
- 422 Wave Propagation and Communication Links. 3 Hours.** Previously listed as EECS 422. Antennas and propagation; wave propagation over ground, through ionosphere and troposphere; diversity principles; propagation effects in microwave systems, satellite, space, and radar links. Prerequisites: ECE 311 and ECE 322.
- 423 Electromagnetic Compatibility. 3 Hours.** Previously listed as EECS 423. EMC requirements for electronic systems. Nonideal behavior of components. Radiated and conducted emissions. Susceptibility. Coupling and shielding. Electrostatic discharge. System design for EMS. Prerequisite: ECE 322.
- 426 Microwave Semiconductor Devices. 3 Hours.** Previously listed as EECS 426. Device and circuit behavior at microwave frequencies. Noise characterization. Detectors and mixers. Parametric electronics. Microwave diodes. Oscillators and amplifiers. Microwave transistors and circuit design. Prerequisites: ECE 320 and ECE 346.
- 427 Modern Linear Optics. 3 Hours.** Previously listed as EECS 427. Two-dimensional Fourier analysis. Scalar diffraction and applications: aperture arrays, gratings and lenses. Imaging. Holography. Optical systems in spatial frequency domain. Optical signal processing. Tomography. Prerequisite: ECE 322.

**429 Plasma. 3 Hours.** Same as Physics 429. Previously listed as EECS 429. Single particle motion, plasma as fluids, waves in plasma, diffusion, resistivity, equilibrium, stability, introduction to kinetic theory. Prerequisite: ECE 322.

**430 Statistical Communication and Signal Processing. 3 Hours.** Previously listed as EECS 430. Random processes, signal to noise ratio, spectral and correlation analysis, filtering of random processes, bandpass noise, noise in communications, statistical signal processing. Prerequisites: ECE 311 and ECE 341.

**431 Analog Communication Circuits. 3 Hours.** Previously listed as EECS 431. Laboratory. Analog communication circuits, oscillators, crystals, mixers, AM generation and detection, FM generators and discriminators. Phase-Locked Loops. Commercial communication circuits. Prerequisites: ECE 311 and ECE 340.

**432 Digital Communications. 3 Hours.** Previously listed as EECS 432. Source coding, quantization, signal representation, channel noise, optimum signal reception, digital modulation: ASK, PSK, FSK, MSK, M-ary modulation. Probability of error. Inter-symbol interference. Prerequisite: ECE 311 and ECE 341.

**434 Multimedia Communication Networks. 3 Hours.** Extensive computer use required. Multimedia systems; compression standards; asynchronous transfer mode; Internet; wireless networks; television; videoconferencing; telephony; applications. Prerequisite: ECE 333.

**435 Wireless Communication Networks. 3 hours.** Previously listed as EECS 435. 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. Prerequisites: ECE 432 and ECE 333.

**436 Computer Communication Networks II. 3 hours.** Extensive computer use required. Explores integrated network architecture of service, control signaling and management, examples of high-speed LAN/WAN, next generation Internet and mobile wireless network. Prerequisite: ECE 333.

**442 Power Semiconductor Devices and Integrated Circuits. 4 Hours.** Previously listed as EECS 442. Breakdown physics; edge termination techniques; P-i-N and Schottky power rectifiers; power MOSFETs; conductivity-modulated high-power devices; wide bandgap semiconductors; emerging material technologies device modeling. Prerequisite: ECE 340.

**445 Analysis and Design of Power Electronic Circuits. 4 Hours.** Previously listed as EECS 445. Power switching components. Analysis of different DC-to-DC converter operations. Output voltage regulation. Practical converter design. Zero-current and zero-voltage soft switching converters. Prerequisites: ECE 310 and ECE 342.

**448 Transistors. 3 Hours.** Previously listed as EECS 448. Bipolar junction transistors, electronic processes in surface-controlled semiconductor and dielectric devices. Properties of MIS field-effect capacitors and transistors, surface and interface effects. Prerequisite: ECE 346.

**449 Microdevices and Micromachining Technology. 4 Hours.** Previously listed as EECS 449. Laboratory. Microfabrication techniques for microsensors, microstructures, and microdevices. Selected examples of physical/chemical sensors and actuators. Simulation experiments. Prerequisite: ECE 347.

**451 Control Engineering. 3 Hours.** Previously listed as EECS 451. State-space representation of systems; realization theory; stability; performance; modern control design techniques, including: fuzzy, learning, adaptive and nonlinear control. Prerequisite: ECE 350.

**452 Robotics: Algorithms and Control. 3 Hours.** Kinematic and dynamic modeling of robots; configuration space; motion planning algorithms; control of robots; sensors and perception; reasoning; mobile robots. Prerequisites: CS 201 and either ECE 210 or ECE 225 or consent of the instructor.

**458 Electromechanical Energy Conversion. 3 Hours.** Previously listed as EECS 458. Electromagnetic forces and torque; magnetic circuits and transformers; DC machines; three-phase AC synchronous and induction machines; laboratory-demonstrations. Projects are required. Prerequisite: ECE 225.

**465 Digital Systems Design. 3 Hours.** Previously listed as EECS 465. Switching algebra, combinational circuits, Mux, ROM, PLA-based designs, minimization techniques, synchronous and asynchronous sequential circuits (minimization, hazards, races, state assignment, retiming), fault analysis, testing. Prerequisite: ECE 265, or CS 366 and either ECE 220 or Phys 142.

**466 Advanced Computer Architecture. 3 Hours.** Previously listed as EECS 466. Credit is not given for ECE 466 if the student has credit in CS 466. 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. Prerequisite: ECE 366.

**467 Introduction to VLSI Design. 4 Hours.** Previously listed as EECS 467. Laboratory. MOS, CMOS circuits VLSI technology, CMOS circuit characterization and evaluation. Static and dynamic MOS circuits, system design, faults, testing, and symbolic layout. Advanced topics. Prerequisite: ECE 340.

**468 Analog and Mixed-Signal VLSI Design. 4 Hours.** Previously listed as EECS 468. 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. Prerequisite: ECE 467.

**469 CAD-Based Computer Design. 3 Hours.** Previously listed as EECS 469. Extensive computer use required. Credit is not given for ECE 469 if the student has credit in CS 469. Use of modern CAD tools for computer system design, hardware, description languages, simulation, design verification, synthesis. Design assignments, projects using CAD. Prerequisites: ECE 368 and ECE 465 and ECE 466.

**491 Seminar. 1 to 4 Hours.** Previously listed as EECS 491. May be repeated for credit. Topics of mutual interest to a faculty member and a group of students. Offered as announced by department bulletin or the Timetable. Prerequisite: Consent of the instructor.

**493 Special Problems. 2 to 4 Hours.** Previously listed as EECS 493. No graduate credit for electrical and computer engineering majors. Special problems or reading by special arrangement with the faculty. Prerequisite: Consent of the instructor.

## Engineering (Engr)

**100 Engineering Orientation. 1 Equivalent Hour. 0 Academic Hours.** No graduation credit. Satisfactory/Unsatisfactory grade only. Required of all engineering students. Should be taken in the first semester after acceptance into the College of Engineering. A general orientation course on careers in the engineering profession. Discussion of college advising procedures. Prerequisite: Admission to the College of Engineering.

**189 Minority Engineering Freshman and Transfer Student Orientation. 1 Equivalent Hour. 0 Academic Hours.** No graduation credit. Satisfactory/Unsatisfactory grade only. Should be taken in the first semester after acceptance into the College of Engineering. Orientation for undergraduate minority engineering students; seminars, lectures, and workshops by faculty, upper-class students, administration, and industry representatives on topics relevant to ethnic minority groups. Prerequisite: Admission to the College of Engineering.

**289 Cooperative Engineering Practice. 0 Hours.** May be repeated. Satisfactory/Unsatisfactory grade only. Off-campus participation in a governmental or industrial training program. Prerequisite: Enrollment in the Cooperative Engineering Program.

**400 Engineering Law. 3 Hours.** 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. Prerequisite: Senior standing or above.

**401 Engineering Management. 3 Hours.** Extensive computer use required. This is an online web-based course. Theory, strategy, and tactics of the use of project management including project planning, matrix management concept, and team meetings. Prerequisite: Senior standing or above.

**402 Intellectual Property Law. 3 Hours.** Extensive computer use required in this online web-based course. Patent, copyright, trade secret, mask work, and cyber-squatting legal and procedural principles; protection for novel software, biotech inventions, and business methods; and trademark protection for domain names. Prerequisite: Senior standing or above.

**403 Reliability Engineering. 3 Hours.** Extensive computer use required. This is an online web-based course. 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. Prerequisite: Senior standing or above.

**420 Engineering for Success. 1 Hour.** Interactive seminars will be given by persons with engineering degrees having shown high achievement in either engineering or non-engineering endeavors. Satisfactory/Unsatisfactory grade only. Prerequisite: Junior standing or above.

**494 Special Topics in Engineering. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Covers multidisciplinary engineering topics that vary from term to term depending on current student and instructor interests. Prerequisite: Junior standing or above; and consent of the instructor.

## Industrial Engineering (IE)

- 198 Special Topics in Engineering Graphics. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: Prerequisite may vary by section according to topic.
- 201 Engineering Economy. 3 Hours.** Principles and techniques of economic analysis in engineering and management science. Basic probability theory and decision problems under risk and uncertainty. Prerequisite: Math 181.
- 312 Dynamic Systems and Control. 3 Hours.** Same as Mechanical Engineering 312. 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. Prerequisites: Math 220 and Phys 142 and sophomore standing or above or approval of the department.
- 341 Ergonomics I. 3 Hours.** 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: Credit or concurrent registration in IE 342.
- 342 Probability and Statistics for Engineers. 3 Hours.** Probability, random variables, mathematical expectation, discrete and continuous distributions, estimation theory, test of hypothesis, and introduction to standard experimental designs. Prerequisite: Math 210.
- 345 Regression Applications and Forecasting in Engineering. 3 Hours.** Single and multiple regression analysis of variance, examination of residuals, introduction to time series analysis, and analytical forecasting techniques; application to engineering system. Prerequisite: IE 342.
- 365 Methods Analysis and Work Measurement. 4 Hours.** 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: Credit or concurrent registration in IE 342.
- 380 Manufacturing Process Principles. 3 Hours.** Same as Mechanical Engineering 380. 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. Prerequisite: CEMM 203.
- 392 Undergraduate Research. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Research under close supervision of a faculty member. Prerequisite: Consent of the head of the Department.

**396 Senior Design I. 5 Hours.** Same as Mechanical Engineering 396. 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. Prerequisites: Senior standing; and completion of all core courses and consent of the instructor.

- 412 Dynamic Systems Analysis I. 3 Hours.** Same as Mechanical Engineering 412. Classical control theory, concept of feedback, Laplace transform, transfer functions, control system characteristics, root locus, frequency response, compensator design. Prerequisite: ME 308.
- 446 Quality Control and Reliability. 3 Hours.** 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. Prerequisite: IE 342.
- 461 Safety Engineering. 3 Hours.** 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. Prerequisite: IE 342.
- 463 Plant Layout and Materials Handling. 3 Hours.** Facilities design functions, computer-aided plant layout, facility location, warehouse layout Minimax location, deterministic and probabilistic conveyor models. Prerequisite: IE 471.
- 464 Virtual Automation. 3 Hours.** Same as Mechanical Engineering 464. 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. Prerequisites: IE 201; and CS 107 or CS 108.
- 465 Manufacturing Information Systems. 3 Hours.** Design and implementation of supervisory control and data acquisition systems; manufacturing systems controller and communication networks. Prerequisites: Senior or graduate standing, or consent of the instructor; and familiarity with computer programming.
- 466 Production Planning and Inventory Control. 3 Hours.** 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. Prerequisites: IE 345 and 471.
- 467 Industrial Systems Simulation. 3 Hours.** 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. Prerequisite: CS 107 or CS 108.
- 468 Virtual Manufacturing. 3 Hours.** Same as Mechanical Engineering 468. Virtual reality applications in manufacturing systems design, manufacturing applications of networked virtual reality, virtual reality modeling of occupational safety engineering. Prerequisite: CS 107 or CS 108.

**471 Operations Research I. 3 Hours.** Introduction to operations research, formulation of linear programming problems, simplex methods, duality theory, sensitivity analysis, network models, and integer linear programming. Prerequisite: Math 210.

**472 Operations Research II. 3 Hours.** Nonlinear programming problems, unconstrained optimization search techniques. Kuhn-Tucker theorems, quadratic programming, separable programming, Markov chain, queuing theory, and dynamic programming. Prerequisite: IE 342 and IE 471 or graduate standing.

**494 Special Topics in Industrial Engineering. 3 Hours.** May be repeated for credit. Particular topics vary from term to term depending on the interests of the students and the specialties of the instructor. Prerequisite: Consent of the instructor.

## Mechanical Engineering (ME)

- 205 Introduction to Thermodynamics. 3 Hours.** 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: Phys 142.
- 210 Engineering Dynamics. 3 Hours.** 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: CEMM 201.
- 211 Fluid Mechanics I. 3 Hours.** 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 theories. Prerequisites: Math 220 and Phys 141.
- 250 Engineering Graphics and Design. 3 Hours.** Principles of multiview projection. Related industrial standards, applications to all engineering disciplines. Computer-aided design. Computer programming, graphics. Prerequisites: Eligibility to register for Engl 160 and credit or concurrent registration in CS 102 or CS 107 or CS 108.
- 261 Materials for Manufacturing. 2 Hours.** Same as Civil Engineering, Mechanics, and Metallurgy 261. Credit is not given for ME 261 if the student has credit in CEMM 260. Introductory-level course in materials engineering to familiarize students with relationships between processing, structure and properties of materials used to manufacture devices. Prerequisites: Chem 112, Math 181, and Phys 141.
- 293 Special Problems. 1 to 4 Hours.** May be repeated for credit. Special problems, readings, or research under close supervision of a faculty member in the area of engineering graphics. Prerequisite: Consent of the instructor.
- 308 Mechanical Vibrations. 3 Hours.** Same as Civil Engineering, Mechanics, and Metallurgy 359. Free and forced vibrations of damped linear single and multiple degree of freedom systems. Approximate methods, instrumentation, and applications. Prerequisites: ME 210 and Math 220.



- 312 Dynamic Systems and Control. 3 Hours.** Same as Industrial Engineering 312. 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. Prerequisites: Math 220 and Phys 142 and sophomore standing or above or approval of the department.
- 318 Fluid Mechanics II. 3 Hours.** 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: ME 211.
- 320 Mechanisms and Dynamics of Machinery. 4 Hours.** Kinematic analysis and synthesis of mechanisms; linkages, cams, spur gears, gear trains. Dynamic forces in machines; bearing reactions, balancing, flywheel design, friction, efficiency. Prerequisite: ME 210.
- 321 Heat Transfer. 4 Hours.** 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. Prerequisites: ME 205 and 211.
- 325 Intermediate Thermodynamics. 3 Hours.** 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. Prerequisites: ME 205 and credit or concurrent registration in ME 211.
- 341 Experimental Methods in Mechanical Engineering. 3 Hours.** 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. Prerequisites: CEMM 203 and ME 211 and credit or concurrent registration in ME 308.
- 370 Design of Machine Components. 3 Hours.** Applications of mathematics, materials science and strength of materials to machine component design; includes fasteners, springs, gears, bearings, chains, clutches, and shafts. Prerequisites: CEMM 203 and ME 320.
- 380 Manufacturing Process Principles. 3 Hours.** Same as Industrial Engineering 380. 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. Prerequisite: CEMM 203.
- 392 Undergraduate Research. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Research under close supervision of a faculty member. Prerequisites: Consent of the head of the department.
- 396 Senior Design I. 5 Hours.** Same as Industrial Engineering 396. 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. Prerequisites: Senior standing; completion of all core courses and consent of the instructor.
- 401 Applied Stress Analysis I. 3 Hours.** Complex bending and torsion, curved flexural members, energy methods in design, theories of failure. Prerequisite: CEMM 203.
- 408 Intermediate Vibration Theory. 3 Hours.** Free and forced vibrations of multi-degree of freedom linear systems. Lagrangian dynamics, normal mode methods, matrix, and approximate and numerical methods. Prerequisite: ME 308.
- 409 Advanced Kinematics I. 3 Hours.** 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. Prerequisite: ME 320.
- 410 Automation and Robotics Applications. 3 Hours.** Basic pneumatic and hydraulic systems. Design of sequential control circuits and ladder diagrams. Robot kinematics and dynamics. Robot design. Trajectory planning. Applications and demonstrations. Prerequisite: ME 210.
- 412 Dynamic Systems Analysis I. 3 Hours.** Same as Industrial Engineering 412. Classical control theory, concept of feedback, Laplace transform, transfer functions, control system characteristics, root locus, frequency response, compensator design. Prerequisite: ME 308.
- 413 Dynamics of Mechanical Systems. 3 Hours.** 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. Prerequisite: ME 320.
- 414 Theory of Gearing and Applications. 3 Hours.** 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. Prerequisite: ME 320.
- 415 Propulsion Theory. 3 Hours.** Thermodynamics and fluid mechanics of air-breathing engines, performance of rockets; chemical and nuclear rockets. Prerequisite: ME 419 or the equivalent.
- 417 Intermediate Fluid Mechanics. 3 Hours.** Development of conservation equations for the Newtonian-fluid; continuity, Navier-Stokes and energy equations. Some exact and approximate solutions of highly viscous, viscous and inviscid flows. Boundary layer flows, jets and wakes. Prerequisite: ME 318.
- 419 Compressible Flow Theory. 3 Hours.** 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. Prerequisite: ME 318.
- 421 Intermediate Heat Transfer. 3 Hours.** 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. Prerequisite: ME 321 or consent of the instructor.
- 422 Heating, Ventilation and Air-Conditioning. 3 Hours.** Refrigeration systems and heat-pump, mass transfer in humidification, solar heat transfer in buildings, heating and cooling loads, air-conditioning computer project. Prerequisite: ME 321.
- 423 Heat Exchangers. 3 Hours.** Classification; heat transfer and pressure drop analysis, flow distribution, transient performance, surface selection and geometrical properties, codes and standards. Prerequisites: ME 321 and 211.
- 425 Second Law Analysis in Energy Engineering. 3 Hours.** 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. Prerequisite: ME 321.
- 426 Applied Combustion. 3 Hours.** 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. Prerequisite: ME 325.
- 427 Solar Engineering. 3 Hours.** Applications; solar geometry and intensities; applied heat transfer topics; flat plate and concentrating collectors; energy storage; analysis of heating and cooling systems. Prerequisite: ME 321 or consent of the instructor.
- 428 Numerical Methods in Mechanical Engineering. 3 Hours.** 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. Prerequisites: CS 108 and senior standing.
- 429 Internal Combustion Engines. 3 Hours.** Introduction to engine types, characteristics, and performance. Combustion processes in spark and compression ignition engines; combustion abnormalities. Analysis of intake, exhaust, and fuel systems. Prerequisite: ME 325.
- 433 Non-Equilibrium Thermal Processes. 3 Hours.** Molecular engineering. Non-equilibrium statistical mechanics. Distribution functions. Molecular excitation and de-excitation. Ionization and dissociation. Laser engineering. Non-equilibrium chemical kinetics. Surface processes. Chemisorption and physisorption. Prerequisite: ME 325 or consent of the instructor.
- 441 Optical Methods in Mechanical Engineering. 3 Hours.** 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. Prerequisite: Senior standing or consent of the instructor.
- 447 Introduction to Computer-Aided Design. 3 Hours.** 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. Prerequisites: Math 220 and ME 250.
- 450 Air Pollution Engineering. 4 Hours.** Same as Chemical Engineering 450. Environmental aspects of combustion processes, pollutant formation. Control of pollutants and particulates. Air quality control. Fundamentals of combustion. Prerequisite: ME 321 or consent of the instructor.



- 464 Virtual Automation. 3 Hours.** Same as Industrial Engineering 464. 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. Prerequisites: IE 201; and CS 107 or CS 108.
- 468 Virtual Manufacturing. 3 Hours.** Same as Industrial Engineering 468. Virtual reality applications in manufacturing systems design, manufacturing applications of networked virtual reality, virtual reality modeling of occupational safety engineering. Prerequisite: CS 107 or CS 108.
- 494 Special Topics in Mechanical Engineering. 3 Hours.** May be repeated for credit. Particular topics vary from term to term depending on the interests of the students and the specialties of the instructor. Prerequisite: Consent of the instructor.

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# Honors College

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## 103 Burnham Hall

**Interim Dean:** Janet Madia.

**Associate Dean for Academic Affairs:** Jeff Lewis.

**Executive Associate Dean for Student and Alumni Affairs:** Janet Madia.

**Assistant Dean for Student Services:** Stacie Williams.

**Assistant Dean for Operations:** Randi Zillmer.

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The Honors College offers academic challenge and support to well-prepared undergraduates through a wide range of honors programs and activities.

All Honors College students complete an honors activity each term in addition to maintaining a minimum 4.25/5.00 grade point average. Freshmen enroll in an interdisciplinary honors core course each semester to complete the honors activity requirement and fulfill university graduation requirements. These courses are taught by faculty from various departments and address significant themes in the humanities and social sciences. In addition, freshmen may opt to take additional honors courses in subjects such as math, English, 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 Assistantships, tutoring in the college peer tutoring program, completion of an honors project in a regular course, academic service learning, and senior theses. All of these activities are monitored through an 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 the Honors House, specially designated honors floors of the Student Residence and Commons. In addition to sharing living space with other Honors College students, students in the program 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-based scholarship opportunities for beginning freshmen through the University Scholar Awards, which cover tuition and fees and are renewable for up to four years. 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.

Honors students appreciate the availability of facilities reserved exclusively for their use, including a computer lab featuring Pentium workstations, social and study lounges, and photocopying facilities. They also enjoy activities such as student-faculty luncheons, monthly socials, the college newsletter (*Ampersand*), and the student literary journal (*Red Shoes Revived*) and the Honors College Ball. Honors College students also receive extended library privileges.

**(312) 413-2260**

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## Admission to the College

Student members of the Honors College are undergraduates representing all UIC colleges and departments. They are invited to apply on the basis of their academic achievement.

Entering freshmen who have a minimum ACT composite score of 28 and who rank in the upper 15 percent of their high school graduating class may apply for membership in the Honors College. Transfer students with a grade point average of 4.50 (A=5.00) and continuing UIC students with a cumulative grade point average of a minimum 4.25 (A=5.00) who have at least three semesters left before graduation are also encouraged to apply. Other entering students who do not meet these criteria may apply directly to the dean of the Honors College for special admission consideration.

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## Requirements of the College

*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

All students in the Honors College are expected to fulfill the following requirements to ensure continued membership:

1. Students must successfully complete an honors activity each term (except summer).
2. Students must enroll in Hon 222, Honors Activity, each term (except summer) in order for honors work to be reflected on their transcripts.
3. Students must maintain a minimum cumulative UIC grade point average of 4.25.

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## Probation and Drop Rules

Any student in the Honors College whose UIC cumulative grade point average falls below 4.00 or who does not fulfill the honors activity requirement is automatically dropped from membership in the College and denied attendant privileges. Students with cumulative averages between 4.00 and 4.25 are placed on probationary status. These students have one semester in which to raise their cumulative average to 4.25. Students on probation are expected to fulfill all other Honors College requirements.

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## Honors Recognition

Honors College membership status will be noted annually on student transcripts and at the Honors Day ceremony held each spring.

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## Honors Societies

### Alpha Phi Sigma

Alpha Phi Sigma, the National Criminal Justice Society, was founded in 1942. The Xi Xi Chapter of Alpha Phi Sigma at the University of Illinois at Chicago (UIC) was established in 1997. Xi Xi invites applications from eligible criminal justice undergraduates holding a 4.20 grade point average in criminal

justice courses and a 4.00 cumulative grade point average. This chapter also invites graduate students with a 4.40 grade point average in criminal justice courses and a 4.40 cumulative grade point average. There is a two-semester minimum membership. Members must have a minimum of 15 semester hours in criminal justice courses. Members must also be willing to attend six meetings each semester. The Xi Xi chapter offers leadership and group organizational experience. The chapter has four elected officer positions (president, vice-president, secretary, and treasurer). The chapter also provides a forum for guest speakers, organizes trips to the Illinois State Police Forensic Laboratory and Stateville Prison, and is involved in community service projects. Members are also eligible for scholarships and internships. The chapter sponsor is Dwayne Alexander, located in room 4078A Behavioral Sciences Building (BSB).

### **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 4.00 grade point average. 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 office located at 3354 Science and Engineering South (SES), call (312) 996-2258, or visit the Omega Zeta web site at [http://www2.uic.edu/stud\\_orgs/hon/tribeta/](http://www2.uic.edu/stud_orgs/hon/tribeta/). The faculty sponsor is Professor Howard E. Buhse, Jr., located in room 4100 Science and Engineering Laboratories (SEL).

### **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 234 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: 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 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 non-members 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 inter-campus 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 and 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 3.75 and a 4.00 average in all Italian courses taken. For information, contact the Department of Spanish, French, Italian, and Portuguese at (312) 996-3236.

### **Golden Key National Honor Society**

The Golden Key National Honor Society was founded in 1977 as a nonprofit organization whose purpose is to recognize and



encourage academic excellence in all fields of endeavor. Membership is by invitation only and is offered to all full- or part-time students who have maintained a cumulative grade point average of 4.30 or higher (A=5.00). For more information, contact the faculty adviser, Dr. Andy Conway, at (312) 413-9407 or [aconway@uic.edu](mailto:aconway@uic.edu).

### **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 you need to have taken 12 hours of Anthropology coursework and maintained a B average. There is a onetime membership fee of \$25 that gives you 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 4.50 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. Faculty members are also elected to a limit of 10 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:

- For juniors (60 semester hours, 30 of which must be graded hours in residence), a cumulative grade point average of 4.75.
- For seniors (90 semester hours, 30 of which must be graded hours in residence), a cumulative grade point average of 4.50.
- 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 4.25 and 4.50 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 4.25 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 undergraduate majors and minors in psychology who have good academic records. Psi Chi sponsors speakers, seminars, and social activities designed to enhance professional growth and to create a sense of fellowship among its members. Membership is open to majors and minors in psychology who have at least 8 semester hours in psychology courses and whose grade point average is 4.00 or higher, both overall and in psychology courses.

For more information about Psi Chi or for a membership application, students should contact the Psi Chi faculty adviser, Dr. Jennifer Wiley, room 1056 BSB, [jwiley@uic.edu](mailto:jwiley@uic.edu).

### **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, post-baccalaureate, and non-traditional) 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 at least a minimum grade point average of 4.00 or higher. For more information, call the College of Pharmacy at (312) 996-7242.

### **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 3.75 and a 4.00 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**

The Engineering Honors Society, for juniors and seniors, is designed to stimulate the interest of all engineers in nontechnical fields, in civic responsibility, and in other broad areas.

Tau Beta Pi is the second oldest national honor society in the U.S., second only to Phi Beta Kappa (which is for students in liberal arts). Students are eligible for membership based on scholastic achievement and exemplary character. Members are recognized at the time of graduation and for life.

To be eligible, a candidate must be a full-time student who is in the top one eighth of the class if a junior, or the top one fifth of the class if a senior. Detailed information can be obtained from the College of Engineering.

# Honors Courses

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## Honors (Hon)

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- 101 Freshman Orientation Seminar. 0 Hours.** Satisfactory/Unsatisfactory grade only. A series of noncredit orientation meetings for incoming students. Prerequisite: Membership in the Honors College.
- 102 Honors Core in the Humanities I. 3 Hours.** May not be repeated for credit. Enrollment limited to Honors College students. The first of a two-course general education credit sequence designed around a central theme. Prerequisite: Membership in the Honors College.
- 103 Honors Core in the Humanities II. 3 Hours.** May not be repeated for credit. Enrollment limited to Honors College students. The second of a two-course general education credit sequence designed around a central theme. Prerequisites: Hon 102 and membership in the Honors College.
- 105 Honors Core in the Social Sciences I. 3 Hours.** May not be repeated for credit. Enrollment limited to Honors College students. The first of a two-course general education sequence designed around a central theme. Prerequisite: Membership in the Honors College.
- 106 Honors Core in the Social Sciences II. 3 Hours.** May not be repeated for credit. Enrollment limited to Honors College students. The second of a two-course general education sequence designed around a central theme. Prerequisites: Hon 105 and membership in the Honors College.

- 107 Interdisciplinary Honors Core in the Humanities. 3 Hours.** May be repeated for a maximum of 6 hours of credit with approval of the Honors College. Enrollment limited to Honors College students. An interdisciplinary humanities general education course designed around a central theme. Prerequisite: Membership in the Honors College.
- 108 Interdisciplinary Honors Core in the Social Sciences. 3 Hours.** May be repeated for a maximum of 6 hours of credit with approval of the Honors College. Enrollment limited to Honors College students. An interdisciplinary social sciences general education course designed around a central theme. Prerequisite: Membership in the Honors College.
- 110 Cross-Disciplinary Honors Core: Social Sciences. 3 Hours.** May not be repeated for credit. Enrollment limited to Honors College students. One of two related cross-disciplinary courses drawn from the humanities and social sciences. Prerequisite: Consent of the instructor.
- 111 Cross-Disciplinary Honors Core: Humanities. 3 Hours.** May not be repeated for credit. Enrollment limited to Honors College students. One of two related cross-disciplinary courses drawn from the humanities and social sciences. Prerequisite: Consent of the instructor.

- 200 Honors Lectures. 0 Hours.** Satisfactory/Unsatisfactory grade only. A series of special non-credit lectures arranged for honors students. Prerequisite: Membership in the Honors College.
- 201 Honors Seminar. 1 Hour.** May be repeated for a maximum of 4 hours of credit with approval of Honors College. Satisfactory/Unsatisfactory grade only. A series of specially arranged seminars in different areas of interest. Prerequisites: Membership in the Honors College. Enrollment eligibility may vary from section to section, depending upon topic.
- 202 Honors Tutoring. 0 Hours.** May be repeated with the approval of the Honors College. Satisfactory/Unsatisfactory grade only. Provides students with the opportunity to tutor students in approved subjects. Prerequisites: Membership and approval of the Honors College.
- 222 Honors Activity. 0 Hours.** Satisfactory/Unsatisfactory grade only. Honors work in an approved course or individual project. 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. Prerequisite: Membership in the Honors College.
- 225 Honors Research. 0 Hours.** May be repeated with the approval of the Honors College. Satisfactory/Unsatisfactory grade only. Individual research not covered by standard courses under close supervision of a faculty member. Prerequisites: Membership and approval of the Honors College.

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# College of Liberal Arts and Sciences

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## 309 University Hall

(312) 996-3366

**Dean:** Stanley Fish.

**Senior Associate Dean:** Christopher M. Comer.

**Visiting Assistant Dean:** Brian S. Bauer.

**Associate Dean:** Bette L. Bottoms.

**Associate Dean:** Susan C. Levine.

**Associate Dean:** Astrida O. Tantillo.

**Assistant Dean:** Albert V. Thompson.

**Senior Associate Dean, Student Academic Affairs:** Emanuel D. Pollack.

**Assistant Deans, Student Academic Affairs:** Lucille V. Braun, Melvin L. Heard, Helen R. Miller.

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The College of Liberal Arts and Sciences 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; *social sciences*, the scientific study of societies; and *natural sciences*, the empirical study of the natural universe. Before embarking on a specialization, or major, a student must complete course work in each 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 in a more generalized program, a liberal arts education can help students develop an understanding of the complexities of the world and themselves. It also fosters the study of foreign language and the ability to think and write critically. This form of education allows students a wide range of choices after graduation and prepares them for continuing education throughout life.

## Admission Requirements

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Individuals seeking admission to the College of Liberal Arts and Sciences must submit an undergraduate application and supporting credentials to the Office of Admissions (M/C 018), The University of Illinois at Chicago, Box 5220, Chicago, Illinois, 60680-5220. The college accepts applications for each of the three terms in the academic year. Submission of applications prior to the announced deadlines is encouraged in order to receive early consideration.

Students applying to the college as beginning freshmen must take either the ACT or SAT test. Admission is based upon the applicant's composite ACT/SAT test score, high school rank, completion of high school subject pattern requirements, space availability and, in some cases, the personal statement. 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 postsecondary institutions. Provided space is available, admission is granted to those transfer applicants with at least a 3.25 (A=5.00) grade point average. Both admission requirements and degree requirements pertaining to transfer students are those described in the *Undergraduate Catalog* pertinent to the term of admission.

More detailed information regarding eligibility for all applicant categories is contained in the section *Office of Admissions and Records*.

## Curricula Offered by the College

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The undergraduate programs of the College of Liberal Arts and Sciences are classified as follows: the *Arts and Sciences Curricula*, the *Specialized Curricula*, the *Secondary Education Curricula*, and the *Preprofessional Curricula*. Students must select a major or curriculum from one of these four areas.

## Arts and Sciences Curricula

Students in the arts and sciences curricula complete their undergraduate studies in either the general, pre-dentistry, pre-law, pre-medicine, pre-occupational therapy, pre-physical therapy, or pre-veterinary medicine curriculum. Regardless of the curriculum selected, the student must also complete a major field of specialization.

Completion of an arts and sciences curriculum leads to either the Bachelor of Arts in Liberal Arts and Sciences or the Bachelor of Science in Liberal Arts and Sciences. The choice of a major field determines the particular degree that will be awarded. A student chooses a major from the following academic disciplines.

- African-American Studies
- Anthropology
- Art History
- Biological Sciences
- Chemistry
- Classical Civilization
- Classical Languages and Literature (Latin and Ancient Greek)
- Communication<sup>1</sup>
- Criminal Justice
- Earth and Environmental Sciences
- Economics
- English
- French
- Germanic Studies
- History
- Italian
- Latin American and Latino Studies
- Mathematics
- Philosophy
- Physics
- Polish
- Political Science
- Psychology
- Russian
- Sociology
- Spanish

## Specialized Curricula

The following curricula require more specialized instruction than similar programs listed under the arts and sciences curricula. Completion of a specialized curriculum leads to either the Bachelor of Arts or the Bachelor of Science in the field of specialization. The choice of curriculum determines the

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1. Students must consult the department for admission to this program.

particular degree that will be awarded. A student may choose a specialized curriculum from the following academic disciplines.

- Biochemistry
- Chemistry
- French Business Studies
- Mathematics and Computer Science
- Physics
- Spanish-Economics
- Statistics and Operations Research

## Secondary Education Curricula

Students who are preparing to teach on the secondary level enroll in curricula supervised by the liberal arts departments offering the various majors. These programs, which have state approval and differ in some respects from those of the arts and sciences curricula, 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 field 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.

- Biological Sciences<sup>1</sup>
- Chemistry
- English
- French
- Germanic Studies
- History
- Mathematics
- Physics
- Spanish

In addition to completing college and major requirements, students in all secondary education curricula must complete a set of courses required to meet state certification requirements. To meet the requirements for secondary education Illinois teaching certification and simultaneously satisfy college requirements, students must choose their courses carefully in consultation with an adviser in their major area. Details of the courses required for students in each academic discipline are given elsewhere in this catalog and in area-specific Program Guides available from the Secondary Education Coordinators in the LAS departments.

Completion of a secondary education curriculum includes a minimum of 100 clock hours of classroom experience with acceptable performance evaluations prior to the term of student teaching. These field experiences are part of the course work requirements for the education courses listed and are also included in certain major field courses.

While in residence at UIC, the secondary education student is required to complete one term of student teaching (Education 470/471) in a secondary school in the Chicagoland area. Because student teaching is considered a full-time assignment and requires attendance at a weekly seminar on campus, no concurrent course work or employment is permitted. In general, students should plan to complete student teaching in the term immediately preceding graduation. Candidates for student teaching must apply to the College of Education in the spring

semester of the academic year preceding that in which assignment is requested. To receive approval for student teaching, the student must have a cumulative grade point average of at least 3.50 (A=5.00) and a 3.50 in the major field course work. (Some departments require a higher average in the cumulative GPA and in major course work; consult the department listings for specific minima.)

A student who completes a teacher education curriculum may be eligible to apply for an Illinois Standard High School Certificate entitling the individual to teach in grades six through twelve. In response to mandated legislative reforms in education, the University has instituted a plan for the continuous assessment of secondary education students seeking certification. The assessment plan has specific requirements that may exceed those of the degree and that must be met at four stages: (1) admission to the University, (2) admission to a secondary education curriculum at junior standing (special application required), (3) admission to student teaching, and (4) recommendation for certification.

The certificate, however, is not automatically awarded upon successful completion of assessment 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 further information on secondary education, consult the *Secondary Education Program in the section College of Education*. Students are also advised to meet with an adviser in the College of Education (Room 3133 EPASW, 996-4533) on a regular basis to keep up to date with changes that may be announced prior to the next publication of this catalog.

## 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.

## Preprofessional Curricula

The preprofessional curricula are designed for students who intend to pursue their undergraduate or graduate education in professional schools of the University of Illinois. 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-Medical Laboratory Sciences
- Pre-Medicine
- Pre-Nursing
- Pre-Occupational Therapy
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Social Work
- Pre-Veterinary Medicine

Advisers for students in these curricula are available in the LAS Academic Advising Center to answer students' questions with regard to 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

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1. Until further notice, no new students will be admitted to the curriculum.



programs. Preprofessional students should consult with an LAS adviser regarding any changes in professional admissions requirements.

Admission to an LAS preprofessional curriculum does not guarantee admission to a professional school; nor does completion of the required course work or attainment of the minimum grade point average. A student who is not admitted to a professional school in advance of receiving an LAS degree may continue to work for a baccalaureate at UIC by meeting all graduation requirements of the College of Liberal Arts and Sciences.

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. Minority students who plan to enter one of the health science fields should also consult the Urban Health Program.

The preprofessional curricula are as follows.

### **Programs in Pre-Elementary Education, Pre-Engineering, and Pre-Social Work**

Liberal arts students in these curricula complete a minimum of two years of preparatory course work in LAS prior to admission to the professional school. (*Note: Preparatory course work for these fields is listed in the section Requirements for Preprofessional Curricula.*) If accepted for admission, students earn the bachelor's degree from the professional school.

#### **Programs in the Health Sciences**

- Pre-Dentistry
- Pre-Medicine
- Pre-Occupational Therapy
- Pre-Physical Therapy

Liberal arts students in these curricula ordinarily complete all requirements for the bachelor's degree at UIC, including a major field, prior to admission to one of the professional schools. (*Note: Preparatory course work for these fields is listed in the section Requirements for Preprofessional Curricula.*) If accepted for admission, students complete the professional degree in the professional school.

- Pre-Health Information Management
- Pre-Human Nutrition
- Pre-Medical Laboratory Sciences<sup>a</sup>
- Pre-Nursing
- Pre-Pharmacy

Liberal arts students in these curricula complete preparatory course work in LAS prior to admission to the professional school. *Note: Preparatory course work for these fields is listed in the section Requirements for Preprofessional Curricula.* If accepted for admission, students earn the degree from the professional school.

<sup>a</sup> Until further notice, no new students will be admitted to the Medical Laboratory Sciences Program.

### **Programs in Pre-Law and Pre-Veterinary Medicine**

Liberal arts students in these curricula ordinarily complete all requirements for the bachelor's degree at UIC, including a major field, prior to admission to one of the professional schools at the Urbana-Champaign campus. *Note: Preparatory course work for these fields is listed in the section Requirements for Preprofessional Curricula.* If accepted for admission, students complete the professional degree from the professional school.

## **Academic Advising**

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The College of Liberal Arts and Sciences encourages the intellectual growth and development of the student as an individual. Newly admitted students will be asked to participate in a small 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, Room 309 University Hall.

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 field 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 at 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 the 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.

## **Placement Tests**

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Enrollment in beginning courses in chemistry, English composition, foreign languages, and mathematics generally requires completion of a placement test. The results of the placement tests are used to determine appropriate course selections. The tests are offered each term by the Testing Service at UIC.

Beginning freshmen take these tests before registration as part of the Pre-enrollment Evaluation Program. Transfer students and those who have previously attended UIC may also be required to take these tests before registration, depending upon the level of prior course work and those courses needed for their majors. Note that in the case of most foreign languages, a placement test is required of all students who have studied a language at the secondary or college level.

## **Graduation Requirements**

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*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

In order to earn a bachelor's degree in the College of Liberal Arts and Sciences, a student must complete basic course requirements as well as requirements in the major field of specialization.

A student is responsible for meeting the graduation requirements of the University and college as well as those of the major or curriculum that are in effect at the time of initial registration in each. It is essential for each student to become familiar with the graduation requirements stated in this catalog and to keep up to date with any

published changes. Students who have transferred into LAS from another UIC college are subject to the requirements in effect at the time of first enrollment in LAS.

Because this catalog is published in alternate years, changes to the graduation requirements also may be announced in a supplement to the catalog.

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.

### Basic Course Requirements

Students are required to complete the following basic course requirements in order to earn a degree in the College of Liberal Arts and Sciences. Proficiency in English Composition and Quantitative Reasoning is essential to success in all curricula. Therefore, all LAS undergraduate students shall, in their first year, register for courses that satisfy the English Composition 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 basic course requirements, with the exception of the Writing-in-the-Discipline requirement, should be completed as early in the college career as feasible.

<i>English Composition</i>	English 160, 161 or English 170, 171
<i>Foreign Language</i>	Four semesters (or the equivalent) in a single foreign language at the college level
<i>Humanities</i>	9 semester hours
<i>Social Sciences</i>	9 semester hours
<i>Natural Sciences</i>	13 semester hours
<i>Quantitative Reasoning</i>	3–5 semester hours (may be specific to the field of specialization)
<i>Cultural Diversity</i>	3 semester hours (may count toward the major or distribution credit)
<i>Writing-in-the-Discipline</i>	0–3 semester hours (specific to the field of specialization)

### English Composition

Each student must demonstrate proficiency in written expression by the successful completion of English 160 and 161 or English 170 and 171. The student's performance on the Composition 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 English composition requirement must be taken at UIC.

A student who must take English 150 or 152 will earn 3 semester hours of credit (regardless of the total number of credit

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.

### Foreign Language

The basic requirement is proficiency in a language that has a recognized literature and/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 satisfied.

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 residence at UIC. (Seniors admitted with foreign language transfer credit must consult a dean for application of this rule.)
3. By completing a full sequence (four terms) 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. Placement tests are required of all students who have studied a language at the secondary or college level. Eligibility for credit in a recommended course is determined by the college.
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 that include the study of deaf culture from an accredited U.S. college or university.

### Quantitative Reasoning

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.
2. Successful completion (grade of "C" or better) of any one of

the following courses: Mathematics 121, 123, 145, 150, 160, 165, 180.

3. Successful completion (grade of “C” or better) of a mathematically oriented course in a department in LAS other than Mathematics. Such courses must require Math 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. Successful completion (grade of “C” or better) of 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.

## Cultural Diversity

All undergraduate students must study a culture different from the dominant American culture. To fulfill this requirement, students must complete one course from a list of cultural diversity courses.

Foreign nationals and students who received a high school education (or its equivalent) in a non-Western country shall be exempt from this requirement. Students may also fulfill the cultural diversity requirement by completing one of the UIC year abroad programs in a non-Western country or the equivalent.

If it fulfills Course Distribution Credit, a cultural diversity course may be counted toward a distribution requirement in humanities or social sciences. Or students may take their cultural diversity course in their majors.

Students should consult the *Cultural Diversity List in this catalog for a list of courses that fulfill the cultural diversity requirement*.

## Writing-in-the-Discipline

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 major and curriculum.

## Course Distribution Credit

The Course Distribution Credit (CDC) program gives students an opportunity to explore the major areas of study - humanities, social sciences, and natural sciences. Each CDC course teaches analytical thinking involving written and oral expression and/or quantitative and symbolic manipulation. Students should learn to understand and evaluate what they have read. They should be able to criticize what they themselves have written, recognize issues of logic and clarity, and make appropriate corrections. They should also be able to draw conclusions from quantitative information to test those conclusions.

Each of the three broad areas of knowledge (humanities, social sciences, and natural sciences) has its own specific subject approach. Humanities courses teach students to interpret, assess, and appreciate ideas and values in literature, the arts, history, and culture. These courses usually require students to write essays and to take essay examinations. Social science courses introduce students to the study of individual and collective human behavior in various past, present, and potential social settings. These courses will emphasize appropriate analytical methods ranging from statistical techniques to case studies. Courses in the natural sciences acquaint students with the major ideas and methods of

investigation in these disciplines. Except for courses in mathematics, these courses include a laboratory that emphasizes experimentation, critical observation, and the collection and interpretation of data.

Normally, Course Distribution Credit courses should be taken by students before they begin to concentrate on their majors in the junior year. A student shall take 9 semester hours of humanities, 9 semester hours of social sciences, and 13 semester hours of natural sciences, with corresponding laboratory work. To fulfill the distribution requirement, students must take courses from at least two departments in each area.

## Limitation on Course Work Applicable Toward the Course Distribution Requirements

The following guidelines apply for the selection of courses that will satisfy the humanities, the social sciences, and the natural sciences requirements.

1. Course work from one department satisfies the requirement in only one of the three disciplines. (For example, a student who applies History 103 toward the social science requirement cannot apply History 100 toward the humanities requirement.)
2. Only the courses listed in the chart that follows are applicable toward requirements. Courses at the 300 level or above and independent study or special topics courses are just a few examples of the types of courses that do not carry distribution credit.
3. Courses listed or cross-listed under the rubric of a student’s major field of study cannot be taken toward fulfillment of course distribution requirements. (For example, a biology major cannot apply biology courses toward the natural science requirement but may apply chemistry courses toward the natural science requirement.)
4. CLEP examination credit in natural sciences is not accepted in partial fulfillment of the natural sciences requirement but is accepted as elective credit.

The *Course Distribution Requirements Chart* on the accompanying pages lists the specific courses from which the student may choose. In selecting courses, a student should always follow the course prerequisites as given in this catalog or in the *Timetable*.

In the areas of the humanities and the social sciences, any combination of courses listed totaling 9 semester hours will fulfill the requirements if the student completes courses from at least two departments in each area.

In the area of the natural sciences, any combination of courses totaling at least 13 semester hours of credit will satisfy the requirement if the student completes courses from at least two departments.



# Course Distribution Requirements Chart

Students must complete course work in the areas of the humanities, the social sciences, and the natural sciences. The options for satisfying these requirements are described below.

## Humanities

**Required: 9 semester hours.** Students must successfully complete at least 9 semester hours from the following list of courses; students must take courses from at least two departments.

*Note: Students should make certain they have satisfied the prerequisites for humanities courses before enrolling in them. Check the course descriptions in this catalog and the Timetable for prerequisites.*

### African-American Studies (AASt)

100 —Introduction to African-American Studies	3
110 —Introduction to African-American Literature, 1760-1910 <i>Same as Engl 118</i>	3
111 —Introduction to African-American Literature since 1910 <i>Same as Engl 119</i>	3
141 —African Civilization <i>Same as Hist 141</i>	3
191 —African and Caribbean Francophone Literature in Translation <i>Same as Fr 191</i>	3
210 —The Art and Archaeology of Ancient Egypt <i>Same as AH 210, ArSt 210</i>	3
241 —Pre-Colonial Africa <i>Same as Hist 241</i>	3
242 —Modern Africa <i>Same as Hist 242</i>	3
264 —African-American Art <i>Same as AH 264</i>	3
270 —African Art <i>Same as AH 270</i>	3

### Archaeological Studies (ArSt)

210 —The Art and Archaeology of Ancient Egypt <i>Same as AASt 210, AH 210</i>	3
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### Art History (AH)

100 —Introduction to Art and Art History	3
110 —Art History I	4
111 —Art History II	4
204 —Greek Art and Archaeology <i>Same as Cl 204, Hist 204</i>	3
205 —Roman Art and Archaeology <i>Same as Cl 205, Hist 205</i>	3
210 —The Art and Archaeology of Ancient Egypt <i>Same as AASt 210, ArSt 210</i>	3
230 —History of Photography I: The Nineteenth Century	3
231 —History of Photography II: The Twentieth Century	3
232 —History of Film I: 1890 to World War II <i>Same as Engl 232</i>	3
233 —History of Film II: World War II to the Present <i>Same as Engl 233</i>	3
242 —Medieval Art and Architecture I	3
243 —Medieval Art and Architecture II	3
250 —Italian Renaissance Art	3
251 —Northern Renaissance Art and Architecture	3
252 —Art of the Baroque and Rococo	3
260 —European Art from 1750 to 1913	3
261 —European and American Art from 1913 to the Present	3
262 —American Art to 1945	3

263 —Latin American Colonial Art	3
264 —African-American Art <i>Same as AASt 264</i>	3
270 —African Art <i>Same as AASt 270</i>	3
272 —Pre-Columbian Art and Architecture <i>Same as LALS 238</i>	3
275 —South Asian Visual Cultures	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
271 —Late Imperial China: 1500-1911 <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

### Catholic Studies (CSt)

120 —Catholic Thought: An Introduction <i>Same as Rels 120</i>	3
150 —Catholicism in U.S. History <i>Same as History 150, RelS 150</i>	3
193 —The Divine Comedy <i>Same as Ital 193, Rels 193</i>	3

### Classics (Cl)

100 —Greek Civilization	3
101 —Roman Civilization	3
102 —Introduction to Classical Literature	3
103 —Introduction to Classical and Mediterranean Archaeology	3
104 —Mediterranean Traditions: Family, Society, and the Divine	3
120 —Introduction to Ancient Philosophy <i>Same as Phil 120</i>	3
202 —The Ancient World: Greece <i>Same as Hist 202</i>	3
203 —The Ancient World: Rome <i>Same as Hist 203</i>	3
204 —Greek Art and Archaeology <i>Same as AH 204, Hist 204</i>	3
205 —Roman Art and Archaeology <i>Same as AH 205, Hist 205</i>	3
208 —Greek Mythology	3
250 —Greek and Roman Epic Poetry	3
251 —Greek Tragedy	3
252 —Greek and Roman Comedy	3
253 —Roman Satire and Rhetoric	3

### English (Engl)

101 —Understanding Literature	3
102 —Introduction to Film Narrative	3
103 —English and American Poetry	3
104 —English and American Drama	3
105 —English and American Fiction	3
106 —English and American Prose	3
107 —Introduction to Shakespeare	3
108 —British Literature and British Culture	3
109 —American Literature and American Culture	3
110 —English and American Popular Genres	3
111 —Women and Literature <i>Same as GWS 111</i>	3



112 —Introduction to Native American Literatures <i>Same as NASt 112</i>	3	109 —East Asian Civilization: China <i>Same as AsSt 109</i>	3
113 —Introduction to Multi-Ethnic Literatures in the United States	3	110 —East Asian Civilization: Japan <i>Same as AsSt 110</i>	3
114 —Introduction to Colonial and Postcolonial Literature	3	114 —Topics in World History	3
115 —Understanding the Bible as Literature <i>Same as JSt 115, RelS 115</i>	3	116 —Freshman Seminar: Special Topics	3
117 —Introduction to Gender, Sexuality and Literature <i>Same as GWS 117</i>	3	117 —Understanding the Holocaust <i>Same as JSt 117</i>	3
118 —Introduction to African-American Literature, 1760-1910 <i>Same as AASt 110</i>	3	141 —African Civilization <i>Same as AASt 141</i>	3
119 —Introduction to African-American Literature since 1910 <i>Same as AASt 111</i>	3	150 —Catholicism in U.S. History <i>Same as CSt 150, RelS 150</i>	3
120 —Film and Culture	3	161 —Introduction to Latin American History <i>Same as LALS 161</i>	3
121 —Introduction to Moving Image Arts	3	177 —Middle Eastern Civilization	3
170 —Freshman Colloquium I	3	202 —The Ancient World: Greece <i>Same as CI 202</i>	3
171 —Freshman Colloquium II	3	203 —The Ancient World: Rome <i>Same as CI 203</i>	3
232 —History of Film I: 1890 to World War II <i>Same as AH 232</i>	3	204 —Greek Art and Archaeology <i>Same as AH 204, CI 204</i>	3
233 —History of Film II: World War II to the Present <i>Same as AH 233</i>	3	205 —Roman Art and Archaeology <i>Same as AH 205, CI 205</i>	3
<b>French (Fr)</b>		206 —The Earlier Middle Ages	3
191 —African and Caribbean Francophone Literature in Translation <i>Same as AASt 191</i>	3	207 —The Later Middle Ages	3
196 —Totalitarianism, Writing and Cinema <i>Same as Ital 196, Span 196</i>	3	211 —Europe: 1500 to 1715	3
198 —French Literature in Translation	3	213 —Europe: 1815 to 1914	3
200 —Introduction to the Study of French Literature and Culture	3	214 —Europe: 1914 to 1945	3
201 —Introduction to French Literature I	3	220 —Modern Germany since 1848	3
202 —Introduction to French Literature II	3	222 —England to 1689	3
<b>Gender and Women's Studies (GWS)</b>		223 —Modern Britain since 1689	3
111 —Women and Literature <i>Same as Engl 111</i>	3	224 —France: 1500 to 1715	3
117 —Introduction to Gender, Sexuality, and Literature <i>Same as Engl 117</i>	3	225 —France: 1715 to 1848	3
120 —Study of Gender, Class, and Political Issues in German Texts <i>Same as Ger 120</i>	3	226 —France since 1848	3
192 —From the Convent to the Streets: Latin American Women Writers in Translation <i>Same as LALS 192, Span 192</i>	3	227 —Spain: 1469 to 1808 <i>Same as LALS 227</i>	3
201 —Women in U.S. History and Culture	3	228 —Spain since 1808 <i>Same as LALS 228</i>	3
244 —Women in Russian Literature <i>Same as Russ 244</i>	3	233 —History of East Central Europe and the Balkans	3
252 —Sexuality in America: Historical Perspectives <i>Same as Hist 252</i>	3	234 —History of Poland <i>Same as Pol 234</i>	3
<b>Germanic Studies (Ger)</b>		237 —Russia since 1812	3
100 —Introduction to Germanic Cultures and Literatures	3	241 —Pre-Colonial Africa <i>Same as AASt 241</i>	3
120 —Study of Gender, Class, and Political Issues in German Texts <i>Same as GWS 120</i>	3	242 —Modern Africa <i>Same as AASt 242</i>	3
122 —Minority Perspectives in the Germanic Context <i>Same as JSt 122</i>	3	252 —Sexuality in America: Historical Perspectives <i>Same as GWS 252</i>	3
123 —Introduction to Yiddish Culture and Literature <i>Same as JSt 123</i>	3	265 —Mexico: 1400 to 1850 <i>Same as LALS 265</i>	3
217 —German Cinema	3	266 —Mexico since 1850 <i>Same as LALS 266</i>	3
218 —Opera in Germanic Cultures: From Mozart to Berg	3	271 —Late Imperial China: 1500 to 1911 <i>Same as AsSt 271</i>	3
219 —Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture	3	272 —China since 1911 <i>Same as AsSt 272</i>	3
<b>History (Hist)</b>		273 —Japan to 1600 <i>Same as AsSt 273</i>	3
100 —Western Civilization to 1648	3	274 —Japan since 1600 <i>Same as AsSt 274</i>	3
101 —Western Civilization since 1648	3	275 —History of South Asia <i>Same as AsSt 275</i>	3
106 —The World since 1400	3	277 —The Middle East to 1258	3
		278 —The Middle East since 1258	3

## Honors (Hon)

102 —Honors Core in the Humanities I	3
103 —Honors Core in the Humanities II	3
107 —Interdisciplinary Honors Core in the Humanities	3
111 —Cross-Disciplinary Honors Core: Humanities	3

## Italian (Ital)

180 —Italian Cinema	3
193 —The Divine Comedy	3
<i>Same as CSt 193, RelS 193</i>	
196 —Totalitarianism, Writing and Cinema	3
<i>Same as Fr 196, Span 196</i>	
210 —Introduction to Reading and Analysis of Italian Literary Texts <sup>a</sup>	3

## Japanese (Jpn)

215 —Japanese Language and Culture	3
<i>Same as Ling 215</i>	

## Jewish Studies (JSt)

101 —Introduction to Jewish Studies: Humanities	3
115 —Understanding the Bible as Literature	3
<i>Same as Engl 115, RelS 115</i>	
117 —Understanding the Holocaust	3
<i>Same as Hist 117</i>	
122 —Minority Perspectives in the Germanic Context	3
<i>Same as Ger 122</i>	
123 —Introduction to Yiddish Culture and Literature	3
<i>Same as Ger 123</i>	

## Latin American and Latino Studies (LALS)

101 —Introduction to Latin America in a World Context	3
102 —Introduction to Latino Cultural Studies	3
105 —Introduction to Mexican Studies	3
161 —Introduction to Latin American History	3
<i>Same as Hist 161</i>	
192 —From the Convent to the Streets: Latin American Women Writers in Translation	3
<i>Same as GWS 192, Span 192</i>	
227 —Spain: 1469 to 1808	3
<i>Same as Hist 227</i>	
228 —Spain since 1808	3
<i>Same as Hist 228</i>	
238 —Pre-Columbian Art and Architecture	3
<i>Same as AH 272</i>	
265 —Mexico: 1400 to 1850	3
<i>Same as Hist 265</i>	
266 —Mexico since 1850	3
<i>Same as Hist 266</i>	

## Linguistics (Ling)

215 —Japanese Language and Culture	3
<i>Same as Jpn 215</i>	

## Lithuanian (Lith)

115 —Lithuanian Culture	3
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## Music (Mus)

100 —Introduction to Music I	3
107 —Fundamentals of Music Theory	3
114 —Jazz	3
115 —Opera	3
117 —Music for Symphony Orchestra	3
119 —Music for the Piano	3

## Native American Studies (NAsT)

112 —Introduction to Native American Literatures	3
<i>Same as Engl 112</i>	

<sup>a</sup> Indicates a foreign literature course taught in the language.

## Philosophy (Phil)

100 —Introduction to Philosophy	3
101 —Reasoning	3
103 —Introduction to Ethics	3
104 —Introduction to Social/Political Philosophy	3
105 —Science and Philosophy	3
112 —Morality and the Law	3
115 —Death	3
120 —Introduction to Ancient Philosophy	3
<i>Same as Cl 120</i>	

## Polish (Pol)

115 —Introduction to Polish Culture	3
120 —The Polish Short Story in Translation	3
130 —Masterworks of Polish Literature in Translation	3
140 —Polish Drama in Translation	3
150 —Introduction to Polish Cinema	3
234 —History of Poland	3
<i>Same as Hist 234</i>	
241 —Mickiewicz and Sienkiewicz: Polish Romanticism and Realism	3

## Religious Studies (RelS)

115 —Understanding the Bible as Literature	3
<i>Same as Engl 115, JSt 115</i>	
120 —Catholic Thought: An Introduction	3
<i>Same as CSt 120</i>	
130 —Introduction to Islam	3
150 —Catholicism in U.S. History	3
<i>Same as CSt 150, Hist 150</i>	
193 —The Divine Comedy	3
<i>Same as CSt 193, Ital 193</i>	

## Russian (Russ)

115 —Russian Culture before the Revolution	3
116 —Russian Culture: The Soviet Period	3
120 —The Russian Short Story in Translation	3
130 —Masterpieces of Russian Literature in Translation	3
150 —Introduction to Russian Cinema	3
241 —Dostoevsky	3
242 —Tolstoy	3
244 —Women in Russian Literature	3
<i>Same as GWS 244</i>	

## Slavic (Slav)

115 —Serbian Culture	3
116 —Old Slavic and Ukrainian Folklore and Mythology	3
219 —Serbian Folklore and Folk Mythology	3
222 —Modern Serbian Literature	3

## Spanish (Span)

190 —Contemporary Latin American Literature in Translation	3
192 —From the Convent to the Streets: Latin American Women Writers in Translation	3
<i>Same as GWS 192, LALS 192</i>	
193 —Spanish Literature in Translation	3
196 —Totalitarianism, Writing and Cinema	3
<i>Same as Fr 196, Ital 196</i>	
210 —Introduction to the Reading of Hispanic Texts	3
211 —Introduction to the Analysis of Hispanic Texts <sup>a</sup>	3
260 —Meso-American Literature and Culture <sup>a</sup>	3
261 —South American Literature and Culture <sup>a</sup>	3

## Theater (Thtr)

109 —Introduction to Theater	3
140 —Polish Drama in Translation	3
<i>Same as Pol 140</i>	
209 —Modern Theater	3

<sup>a</sup> Indicates a foreign literature course taught in the language.

## Social Sciences

**Required: 9 semester hours.** Students must successfully complete at least 9 semester hours from the following list of courses; students must take courses from at least two departments.

*Note: Students should make certain that they have satisfied the prerequisites for social sciences courses before enrolling in them.. Check the course descriptions in this catalog and the Timetable for prerequisites.*

### African-American Studies (AASt)

201 —The Psychology of African-Americans	3
<i>Same as Psch 201</i>	
202 —African-American Behavioral Patterns	3
<i>Same as Psch 202</i>	
203 —The African-American Family in the United States	3
247 —African-American History to 1877	3
<i>Same as Hist 247</i>	
248 —African-American History since 1877	3
<i>Same as Hist 248</i>	

### Anthropology (Anth)

100 —The Human Adventure	3
101 —World Cultures: Introduction to Social Anthropology	3
102 —Introduction to Archaeology	3
110 —Cybernetic Systems	3
214 —Sex and Gender in World Cultures	3
<i>Same as GWS 214</i>	
270 —The First Americans	3
271 —American Indian Religion and Philosophy	3
278 —Brazil: A Multi-Ethnic Society	3
<i>Same as LALS 272</i>	
280 —China and Japan: Society and Culture	3
<i>Same as AsSt 280</i>	

### Asian Studies (AsSt)

228 —Sociology of Asia and Asian Americans	3
<i>Same as Soc 228</i>	
280 —China and Japan: Society and Culture	3
<i>Same as Anth 280</i>	

### Communication (Comm)

100 —Fundamentals of Human Communication	3
101 —Introduction to Communication	3
102 —Introduction to Interpersonal Communication	3
103 —Introduction to Media	3

### Criminal Justice (CrJ)

101 —Introduction to the Justice System	3
102 —Foundations of Criminal Justice	3
110 —Legal Rights and Responsibilities	3
114 —Race, Class, Gender and the Law	3
120 —Crime and Society	3
121 —Violence in America	3
200 —Law in Society	3

### Economics (Econ)

120 —Principles of Microeconomics	3
121 —Principles of Macroeconomics	3
130 —Principles of Economics for Business	5

### Education (Ed)

135 —Child and Youth Policies in Urban America	3
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### Gender and Women's Studies (GWS)

101 —American Women's Experience	3
102 —Women in International Perspective	3
214 —Sex and Gender in World Cultures	3
<i>Same as Anth 214</i>	

224 —Gender and Society	3
<i>Same as Soc 224</i>	
256 —Language and Sex	3
<i>Same as Ling 256</i>	

### Geography (Geog)

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

### History (Hist)

103 —American Civilization to the Late Nineteenth Century	3
104 —American Civilization since the Late Nineteenth Century	3
247 —African-American History to 1877	3
<i>Same as AASt 247</i>	
248 —African-American History since 1877	3
<i>Same as AASt 248</i>	
255 —History of Chicago	3
261 —Latin America to 1850	3
<i>Same as LALS 261</i>	
262 —Latin America since 1850	3
<i>Same as LALS 262</i>	

### Honors (Hon)

105 —Honors Core in the Social Sciences I	3
106 —Honors Core in the Social Sciences II	3
108 —Interdisciplinary Honors Core in the Social Sciences	3
110 —Cross-Disciplinary Honors Core: Social Sciences	3

### Jewish Studies (JSt)

102 —Introduction to Jewish Studies: Social Science	3
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### Latin American and Latino Studies (LALS)

103 —Introduction to the Barrio	3
104 —Introduction to Puerto Rican Culture and Society	3
106 —Introduction to Contemporary Latin America	3
107 —Introduction to Andean Studies	3
130 —Introduction to Comparative Politics	3
<i>Same as PolS 130</i>	
217 —Human Geography of Latin America including the Caribbean Region	3
<i>Same as Geog 203</i>	
225 —Racial and Ethnic Groups	3
<i>Same as Soc 225</i>	
261 —Latin America to 1850	3
<i>Same as Hist 261</i>	
262 —Latin America since 1850	3
<i>Same as Hist 262</i>	
272 —Brazil: A Multi-Ethnic Society	3
<i>Same as Anth 278</i>	
283 —Latino Politics in the United States	3
<i>Same as PolS 209</i>	

### Linguistics (Ling)

150 —Introduction to the Study of Language	3
160 —Language and Society	3
161 —Languages and Ethnicities in American History	3
170 —Languages of the World	3

256 —Language and Sex <i>Same as GWS 256</i>	3
<b>Native American Studies (NAST)</b>	
113 —Native American Studies: Sovereignty	3
<b>Political Science (PoIS)</b>	
101 —Introduction to American Government and Politics	3
103 —Who Rules? Introduction to the Study of Politics	3
120 —Introduction to Political Theory	3
130 —Introduction to Comparative Politics <i>Same as LALS 130</i>	3
184 —Introduction to International Relations	3
190 —The Scope of Political Science	3
209 —Latino Politics in the United States <i>Same as LALS 283</i>	3
<b>Psychology (Psch)</b>	
100 —Introduction to Psychology	4
201 —The Psychology of African-Americans <i>Same as AASr 201</i>	3
202 —African-American Behavioral Patterns <i>Same as AASr 202</i>	3
210 —Theories of Personality	3
231 —Community Psychology	3
270 —Abnormal Psychology	3
<b>Sociology (Soc)</b>	
100 —Introduction to Sociology	3
104 —Honors Introduction to Sociology	3
105 —Social Problems	3
110 —Introduction to Social Psychology	3
203 —The African-American Family in the United States <i>Same as AASr 203</i>	3
216 —Social Movements	3
223 —Youth and Society	3
224 —Gender and Society <i>Same as GWS 224</i>	3
225 —Racial and Ethnic Groups <i>Same as LALS 225</i>	3
228 —Sociology of Asia and Asian Americans <i>Same as AsSr 228</i>	3
241 —Social Inequalities	3
244 —Work in a Changing Society	3
245 —Marriage and Family	3
246 —Sociology of Religion	3
251 —Health and Society	3
265 —Sociology of Politics	3
268 —Introduction to Comparative Sociology	3
276 —Urban Sociology	3
<b>Urban Planning and Policy (UPP)</b>	
101 —Introduction to Urban Studies	3
202 —Planning Great Cities	3

## Natural Sciences

**Required: 13 semester hours.** Students must successfully complete at least three courses totaling a minimum of 13 semester hours from the following list of courses; students must take courses from at least two department

*Note: Students should make certain that they have satisfied the prerequisites for science and mathematics courses before enrolling in them. Check the course description in this catalog and the Timetable for prerequisites.*

### Anthropology (Anth)

105 —Human Evolution<sup>b</sup> 5

### Bioengineering (Bioe)

126 —Physics in Medicine<sup>b</sup> 4

*Same as Phys 126*

### Biological Sciences (BioS)

100 —Biology of Cells and Organisms 5

101 —Biology of Populations and Communities 5

103 —Human Development and Reproduction<sup>b</sup> 5

104 —Life Evolving<sup>b</sup> 5

### Chemistry (Chem)

100 —Chemistry and Life<sup>b</sup> 5

112 —General College Chemistry I 5

114 —General College Chemistry II 5

116 —Honors General Chemistry I 5

118 —Honors General Chemistry II 5

130 —Survey of Organic and Biochemistry 5

### Earth and Environmental Sciences (EaES)

101 —Introduction to Earth and Environmental Systems I 5

102 —Introduction to Earth and Environmental Systems II 5

107 —The Changing Earth<sup>b</sup> 5

109 —The Restless Earth<sup>b</sup> 4

200 —Field Work in Missouri 2

### Mathematical Computer Science (MCS)

260 —Introduction to Computer Science 4

### Mathematics (Math)

150 —Finite Mathematics<sup>b</sup> 3

160 —Finite Mathematics for Business 5

165 —Calculus for Business 5

180 —Calculus I 5

181 —Calculus II 5

210 —Calculus III 3

### Natural Sciences (NatS)

101 —Physical World<sup>b</sup> 4

102 —Chemical World<sup>b</sup> 4

103 —Biological World<sup>b</sup> 4

104 —Project-Based Seminar in Natural Science<sup>b</sup> 1

### Physics (Phys)

102 —Introductory Physics II 5

105 —Introductory Physics I - Lecture 4

*CDC granted only upon successful completion of both Phys 105 and 106.*

106 —Introductory Physics I - Laboratory 1

*CDC granted only upon successful completion of both Phys 105 and 106.*

107 —Introductory Physics II - Lecture 4

*CDC granted only upon successful completion of both Phys 107 and 108.*

108 —Introductory Physics II - Laboratory 1

*CDC granted only upon successful completion of both Phys 107 and 108.*

112 —Astronomy and the Universe<sup>b</sup> 4

113 —Physics of Sports 4

<sup>b</sup> Indicates courses specifically designed for those majoring in areas other than science and mathematics.



115 —Physics of Sound and Music <sup>b</sup>	4
121 —Natural Sciences—The Physical Universe <sup>b</sup>	4
122 —Problem-Solving Workshop for Natural Sciences—The Physical Universe <sup>b</sup>	1
123 —Physics of the Environment <sup>b</sup>	5
126 —Physics in Medicine <sup>b</sup>	4
<i>Same as Bioe 126</i>	
141 —General Physics I (Mechanics)	4
142 —General Physics II (Electricity and Magnetism)	4

<sup>b</sup> Indicates courses specifically designed for those majoring in areas other than science and mathematics.

## Cultural Diversity List

**Required: One course.** Students must successfully complete at least one course from the following list of cultural diversity courses. Courses on this list noted with “a” or “b” also partially satisfy course distribution requirements in the humanities or social sciences.

*Note: Students who plan to fulfill the secondary education certification requirements should not select courses from this list, but they should consult with their department or the College of Education for the approved list of courses that fulfill the cultural diversity requirement.*

### African-American Studies (AASt)

141 —African Civilization <sup>a</sup>	3
<i>Same as Hist 141</i>	
191 —African and Caribbean Francophone Literature in Translation <sup>a</sup>	3
<i>Same as Fr 191</i>	
241 —Pre-Colonial Africa <sup>a</sup>	3
<i>Same as Hist 241</i>	
242 —Modern Africa <sup>a</sup>	3
<i>Same as Hist 242</i>	
245 —Politics and Government of Africa	3
<i>Same as PolS 245</i>	
247 —African-American History to 1877 <sup>b</sup>	3
<i>Same as Hist 247</i>	
248 —African-American History since 1877 <sup>b</sup>	3
<i>Same as Hist 248</i>	
264 —African-American Art <sup>a</sup>	3
<i>Same as AH 264</i>	
270 —African Art <sup>a</sup>	3
<i>Same as AH 270</i>	
274 —Caribbean Cultural and Literary Studies	3
<i>Same as Engl 274, LALS 274</i>	

### Anthropology (Anth)

101 —World Cultures: Introduction to Social Anthropology <sup>b</sup>	3
214 —Sex and Gender in World Cultures <sup>b</sup>	3
<i>Same as GWS 214</i>	
269 —Art and Archeology of South America	3
<i>Same as AH 269</i>	
270 —The First Americans <sup>b</sup>	3
271 —American Indian Religion and Philosophy <sup>b</sup>	3
273 —Ethnography of Southeast Asia	3
274 —Ethnography of Africa	3
275 —South American Indians	3
<i>Same as LALS 255</i>	
277 —Ethnography of Mesoamerica	3
<i>Same as LALS 270</i>	
278 —Brazil: A Multi-Ethnic Society <sup>b</sup>	3
<i>Same as LALS 272</i>	
279 —India, Pakistan, and Ceylon: Society and Culture	3
<i>Same as AsSt 279</i>	
280 —China and Japan: Society and Culture <sup>b</sup>	3
<i>Same as AsSt 280</i>	
281 —Ethnography of North Africa and the Middle East	3
479 —Culture and Colonialism in South Asia	3
<i>Same as AsSt 479, Hist 479</i>	

### Art History (AH)

263 —Latin American Colonial Art <sup>a</sup>	3
264 —African-American Art <sup>a</sup>	3
<i>Same as AASt 264</i>	
269 —Art and Archeology of South America	3
<i>Same as Anth 269</i>	

<sup>a</sup> Also satisfies the Humanities general education requirement.

<sup>b</sup> Also satisfies the Social Sciences general education requirement.

270 —African Art <sup>a</sup> <i>Same as AASt 270</i>	3	113 —Introduction to Multiethnic Literatures in the United States <sup>a</sup>	3
271 —Native American Art	3	274 —Caribbean Cultural and Literary Studies <i>Same as AASt 274, LALS 274</i>	3
272 —Pre-Columbian Art and Architecture <sup>a</sup> <i>Same as LALS 238</i>	3	295 —Latino Literary Studies <i>Same as LALS 295</i>	3
273 —Pre-Columbian Art of South America <i>Same as LALS 239</i>	3	<b>French (Fr)</b>	
274 —Pre-Columbian Art of Mesoamerica <i>Same as LALS 240</i>	3	191 —African and Caribbean Francophone Literature in Translation <sup>a</sup> <i>Same as AASt 191</i>	3
275 —South Asian Visual Cultures <sup>a</sup>	3	<b>Gender and Women's Studies (GWS)</b>	
320 —Asian Architecture <i>Same as AsSt 320</i>	3	102 —Women in International Perspective <sup>b</sup>	3
370 —Chinese Art <i>Same as AsSt 370</i>	3	192 —From the Convent to the Streets: Latin American Women Writers in Translation <sup>a</sup> <i>Same as LALS 192, Span 192</i>	3
371 —Japanese Art <i>Same as AsSt 371</i>	3	214 —Sex and Gender in World Cultures <sup>b</sup> <i>Same as Anth 214</i>	3
470 —Topics on Non-Western Art and Architecture	3	275 —Latin American Women <i>Same as LALS 275, PolS 275</i>	3
471 —Topics in Asian Art and Architecture <i>Same as AsSt 471</i>	3	478 —Women in Chinese History <i>Same as AsSt 478, Hist 478</i>	3
<b>Asian Studies (AsSt)</b>		<b>Geography (Geog)</b>	
109 —East Asian Civilization: China <i>Same as Hist 109</i>	3	101 —World Regional Geography <sup>b</sup>	3
110 —East Asian Civilization: Japan <i>Same as Hist 110</i>	3	151 —Introduction to Cultural Geography <sup>b</sup>	4
228 —Sociology of Asia and Asian Americans <sup>b</sup> <i>Same as Soc 228</i>	3	203 —Human Geography of Latin America including the Caribbean Region <sup>b</sup> <i>Same as LALS 217</i>	3
231 —Politics in China <i>Same as PolS 231</i>	3	215 —A Global Geography of Cities <sup>b</sup>	3
232 —Politics in Japan and Korea <i>Same as PolS 232</i>	3	<b>Germanic Studies (Ger)</b>	
271 —Late Imperial China: 1500 to 1911 <i>Same as Hist 271</i>	3	122 —Minority Perspectives in the Germanic Context <sup>a</sup> <i>Same as JSt 122</i>	3
272 —China since 1911 <i>Same as Hist 272</i>	3	123 —Introduction to Yiddish Culture and Literature <sup>a</sup> <i>Same as JSt 123</i>	3
273 —Japan to 1600 <i>Same as Hist 273</i>	3	<b>History (Hist)</b>	
274 —Japan since 1600 <i>Same as Hist 274</i>	3	106 —The World Since 1400 <sup>a</sup>	3
275 —History of South Asia <sup>a</sup> <i>Same as Hist 275</i>	3	109 —East Asian Civilization: China <sup>a</sup> <i>Same as AsSt 109</i>	3
279 —India, Pakistan, and Ceylon: Society and Culture <i>Same as Anth 279</i>	3	110 —East Asian Civilization: Japan <sup>a</sup> <i>Same as AsSt 110</i>	3
280 —China and Japan: Society and Culture <sup>b</sup> <i>Same as Anth 280</i>	3	141 —African Civilization <sup>a</sup> <i>Same as AASt 141</i>	3
320 —Asian Architecture <i>Same as AH 320</i>	3	161 —Introduction to Latin American History <sup>a</sup> <i>Same as LALS 161</i>	3
370 —Chinese Art <i>Same as AH 370</i>	3	177 —Middle Eastern Civilization <sup>a</sup>	3
371 —Japanese Art <i>Same as AH 371</i>	3	241 —Pre-Colonial Africa <sup>a</sup> <i>Same as AASt 241</i>	3
471 —Topics in Asian Art and Architecture <i>Same as AH 471</i>	3	242 —Modern Africa <sup>a</sup> <i>Same as AASt 242</i>	3
472 —Issues and Events in 20th Century China <i>Same as Hist 272</i>	3	247 —African-American History to 1877 <sup>b</sup> <i>Same as AASt 247</i>	3
478 —Women in Chinese History <i>Same as GWS 478, Hist 478</i>	3	248 —African-American History since 1877 <sup>b</sup> <i>Same as AASt 248</i>	3
479 —Culture and Colonialism in South Asia <i>Same as Anth 479, Hist 479</i>	3	261 —Latin America to 1850 <sup>b</sup> <i>Same as LALS 261</i>	3
<b>Economics (Econ)</b>		262 —Latin America since 1850 <sup>b</sup> <i>Same as LALS 262</i>	3
334 —Economic Development	3	265 —Mexico: 1400 to 1850 <sup>a</sup> <i>Same as LALS 265</i>	3
353 —Economic Demography	3	266 —Mexico since 1850 <sup>a</sup> <i>Same as LALS 266</i>	3
<b>English (Engl)</b>		271 —Late Imperial China: 1500 to 1911 <sup>a</sup>	3
112 —Introduction to Native American Literatures <sup>a</sup> <i>Same as NASt 112</i>	3	272 —China since 1911 <sup>a</sup>	3
		273 —Japan to 1600 <sup>a</sup>	3

<sup>a</sup> Also satisfies the Humanities general education requirement.

<sup>b</sup> Also satisfies the Social Sciences general education requirement.

<sup>a</sup> Also satisfies the Humanities general education requirement.

<sup>b</sup> Also satisfies the Social Sciences general education requirement.

274 —Japan since 1600 <sup>a</sup>	3
275 —History of South Asia <sup>a</sup> <i>Same as AsSt 275</i>	3
277 —The Middle East to 1258 <sup>a</sup>	3
278 —The Middle East since 1258 <sup>a</sup>	3
472 —Issues and Events in 20th Century China <i>Same as AsSt 472</i>	3
478 —Women in Chinese History <i>Same as AsSt 478, GWS 478</i>	3
479 —Culture and Colonialism in South Asia <i>Same as Anth 479, AsSt 479</i>	3
<b>Human Nutrition (HN)</b>	
302 —Culture and Food	2
<b>Jewish Studies (JSt)</b>	
122 —Minority Perspectives in the German Context <i>Same as Ger 122</i>	3
123 —Introduction to Yiddish Culture and Literature <sup>a</sup> <i>Same as Ger 123</i>	3
243 —Politics and Government of the Middle East <i>Same as PolS 243</i>	3
<b>Latin American and Latino Studies (LALS)</b>	
101 —Introduction to Latin America in a World Context <sup>a</sup>	3
106 —Introduction to Contemporary Latin America <sup>b</sup>	3
107 —Introduction to Andean Studies <sup>b</sup>	3
161 —Introduction to Latin American History <sup>a</sup> <i>Same as Hist 161</i>	3
192 —From the Convent to the Streets: Latin American Women Writers in Translation <sup>a</sup> <i>Same as GWS 192, Span 192</i>	3
217 —Human Geography of Latin America including the Caribbean Region <sup>b</sup> <i>Same as Geog 203</i>	3
225 —Racial and Ethnic Groups <sup>b</sup> <i>Same as Soc 225</i>	3
238 —Pre-Columbian Art and Architecture <sup>a</sup> <i>Same as AH 272</i>	3
239 —Pre-Columbian Art of South America <i>Same as AH 273</i>	3
240 —Pre-Columbian Art of Mesoamerica <i>Same as AH 274</i>	3
255 —South American Indians <i>Same as Anth 275</i>	3
261 —Latin America to 1850 <sup>b</sup> <i>Same as Hist 261</i>	3
262 —Latin America since 1850 <sup>b</sup> <i>Same as Hist 262</i>	3
265 —Mexico: 1400 to 1850 <sup>a</sup> <i>Same as Hist 265</i>	3
266 —Mexico since 1850 <sup>a</sup> <i>Same as Hist 266</i>	3
270 —Ethnography of Mesoamerica <i>Same as Anth 277</i>	3
272 —Brazil: A Multi-Ethnic Society <sup>b</sup> <i>Same as Anth 278</i>	3
274 —Caribbean Cultural and Literary Studies <i>Same as AAsSt 274, Engl 274</i>	3
275 —Latin American Women <i>Same as PolS 275, GWS 275</i>	3
295 —Latino Literary Studies <i>Same as Engl 295</i>	3
330 —Language, Culture and Identity in Latin/o America	3
427 —Studies in Language Policy and Cultural Identity <i>Same as Span 427</i>	3

<sup>a</sup> Also satisfies the Humanities general education requirement.

<sup>b</sup> Also satisfies the Social Sciences general education requirement.

<b>Lithuanian (Lith)</b>	
115 —Lithuanian Culture <sup>a</sup>	3
<b>Music (Mus)</b>	
227 —Music Cultures of the World	3
<b>Native American Studies (NAsT)</b>	
112 —Introduction to Native American Literatures <sup>a</sup> <i>Same as Engl 112</i>	3
<b>Polish (Pol)</b>	
115 —Introduction to Polish Culture <sup>a</sup>	3
<b>Political Science (PolS)</b>	
231 —Politics in China <i>Same as AsSt 231</i>	3
232 —Politics in Japan and Korea <i>Same as AsSt 232</i>	3
243 —Politics and Government of the Middle East <i>Same as JSt 243</i>	3
245 —Politics and Government of Africa <i>Same as AAsSt 245</i>	3
275 —Latin American Women <i>Same as LALS 275, GWS 275</i>	3
<b>Religious Studies (RelS)</b>	
130 —Introduction to Islam	3
230 —Topics in Islam	3
250 —Eastern and Western Philosophies of Religion	3
<b>Russian (Russ)</b>	
115 —Russian Culture before the Revolution <sup>a</sup>	3
116 —Russian Culture: The Soviet Period <sup>a</sup>	3
<b>Slavics (Slav)</b>	
115 —Serbian Culture <sup>a</sup>	3
<b>Sociology (Soc)</b>	
225 —Racial and Ethnic Groups <sup>b</sup> <i>Same as LALS 225</i>	3
228 —Sociology of Asia and Asian Americans <sup>b</sup> <i>Same as AsSt 228</i>	3
<b>Spanish (Span)</b>	
190 —Contemporary Latin American Literature in Translation <sup>a</sup>	3
192 —From the Convent to the Streets: Latin American Women Writers in Translation <sup>a</sup> <i>Same as GWS 192, LALS 192</i>	3
231 —Civilization and Culture of Spanish America	3
260 —Meso-American Literature and Culture <sup>a</sup>	3
261 —South American Literature and Culture <sup>a</sup>	3
312 —Spanish American Literature and Society	3
314 —Spanish American Literature from Columbus to Modernismo	3
315 —Spanish American Literature since Modernismo	3
427 —Studies in Language Policy and Cultural Identity <i>Same as LALS 427</i>	3
<b>Theatre (Thtr)</b>	
245 —East Asian Theatre	3

<sup>a</sup> Also satisfies the Humanities general education requirement.

<sup>b</sup> Also satisfies the Social Sciences general education requirement.

## Field of Specialization

### The Major

The major field 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.

While a student generally enters a major field of specialization during the sophomore or junior year, a student must declare a major 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. Some majors, however, require department approval for admission into the program. (Currently, this special approval is only required for the Curriculum in French Business Studies, the secondary education program in Mathematics, and for all programs in the Departments of Communication, Criminal Justice and Psychology.) To declare a major, the student should visit the office of the department offering the major and complete a major declaration form.

A student may declare a second major field of specialization 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.

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 field, 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.

Cross-listed courses may count toward specific requirements in each major field. 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 in other UIC colleges may not officially complete an LAS major or curriculum<sup>1</sup>. 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.

As part of the major, a student 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.

### **Grade Point Average Requirement in the Major**

A student must earn a cumulative grade point average of at least 3.00 (A=5.00) 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 3.00. A minimum grade point average of 3.00 (A=5.00) 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 3.00. Some majors may require a higher grade point average. Failure to maintain the minimum grade point average in the major may result in the student being dropped from that major.

### **Residence Requirement in the Major**

A student must complete at least one-half of the course work required for the major field, excluding collateral course requirements, in residence at the University of Illinois at Chicago. The major course work completed in residence must include at least 12 semester hours at the advanced level.

### **The Minor**

Although a minor is not required, a student may elect to complete one or more minor fields of specialization. The number of semester hours required for the minor is determined by the department but may not exceed 21 semester hours.

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.

### **Requirements 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 residence at the University of Illinois at Chicago.

A minimum grade point average of 3.00 (A=5.00) is required for the minor field.

Students may select a minor from the following fields:

- African-American Studies
- Anthropology
- Art History
- Asian Studies
- Biological Sciences
- Chemistry
- Classical Civilization
- Communication
- Criminal Justice
- Earth and Environmental Sciences
- Economics
- English
- French
- Gender and Women's Studies
- Geography
- Germanic Studies
- Greek
- History
- International Studies
- Italian
- Jewish Studies
- Latin
- Latin American and Latino Studies
- Law and Society
- Linguistics
- Lithuanian Studies
- Mathematics
- Mathematics and Computer Science
- Native American Studies
- Philosophy
- Physics
- Polish

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1. Students in other UIC colleges may, however, apply for a second bachelor's degree. See "Second Bachelor's Degree."



- Political Science
- Psychology
- Religious Studies
- Russian
- Sociology
- Spanish

### **Residence Requirement in the Minor**

A student must complete at least one-half of the course work required for the minor field in residence at the University of Illinois at Chicago.

## **Additional Graduation Requirements**

In addition to completing basic courses and major requirements, a student must also satisfy the degree requirements listed below.

### **Hours Required for Graduation**

A minimum of 120 semester hours acceptable to the College of Liberal Arts and Sciences is required for graduation. Because some curricula require more than 120 semester hours, students should consult the department listings in this catalog for specific information and requirements.

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(s) 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.

### **Limitation on Course Work Applicable Toward the Degree**

The College of Liberal Arts and Sciences restricts degree credit as follows:

- No more than 3 semester hours of credit in basic kinesiology activity courses may apply toward the degree. Basic activity courses at UIC include all kinesiology courses numbered 100–149 and all courses numbered 200–248.
- Credit in basic military science is not applicable toward the degree. A maximum of 6 semester hours of credit in advanced military science courses (those numbered at the 200 and 300 levels at UIC) may apply toward the degree.
- Credit in individual performance courses is limited to 8 semester hours.
- No credit is given for doctrinal and canonical course work taken in seminaries or any other institution that provides religious or sectarian training.
- No more than 16 semester hours of independent study may apply toward the degree. (The maximum degree credit in independent study in an individual department or program is 8 semester hours.) Fieldwork and internship courses that are formally required for the major are excluded from this limitation.
- A maximum of 24 semester hours in courses offered by other UIC colleges and acceptable by the College of Liberal Arts and Sciences may be applicable toward the degree. Acceptable non-LAS transfer courses must be equivalent to those offered by other UIC colleges. In cases where majors, minors, and curricula require courses not offered in the

College of Liberal Arts and Sciences, the student may take no more than 24 hours of non-LAS courses in addition to those non-LAS courses required for the program.

### **Elective Credit**

The major and the basic 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 general education 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.

### **Residence Requirement**

Either the first 90 semester hours or the last 30 semester hours of degree work must be completed in continuous, uninterrupted residence at the University of Illinois at Chicago. Students must also complete one-half of the course work required for the major field, excluding collateral course requirements, in residence.

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 correspondence courses does not apply toward the minimum 30 semester-hour residence requirement. Study abroad that has been approved by the student's major department and by the college is not considered an interruption of residence for students in the College of Liberal Arts and Sciences.

### **Advanced Hours**

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 residence at UIC.

Community college work, regardless of the course number or level, is not considered advanced for the purposes of this requirement.

### **Transfer Credit**

Course work completed at other colleges and universities may apply in 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 section *Office of Admission and Records*. 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 to the programs of the college. After admission to the University, students must consult an adviser in the LAS Academic Advising Center.

## Approval of Transfer Credit for Continuing Students

Continuing students who have not declared an LAS major and 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.

Continuing students who have declared an LAS major and want to complete major course requirements at another institution either concurrent with UIC enrollment or during the summer term must obtain prior written approval from their major department before applying to the college for approval. Students will have to provide justification for the request. If the request has been approved by the student's major department, the college will normally approve the petition unless there is a conflict with catalog requirements. Courses outside the major field requirements taken for credit at another institution must have prior college approval.

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.

## Limitation on Transfer Credit from a Community College

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 residence requirements must also be met. (Thus, students ordinarily should not register at a community college after completing the sophomore year.)

## Grade Point Average

A student must earn a cumulative grade point average of at least 3.00 (A=5.00) 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 3.00.

A minimum grade point average of 3.00 is also required for courses in the major field taken at UIC.

In addition, the combined average of transfer work and work taken at UIC in all courses in the major field must be at least 3.00.

## Graduation Declaration

Seniors are required to submit a Declaration of Intent to Graduate form to the college office preferably one term prior to the intended graduation date but no later than the first day of the final term. The declaration will initiate a review of the student's academic records in the final term. It is strongly recommended that students consult an academic adviser in the LAS Academic Advising Center and an adviser in the major department no later than the term in which 90 semester hours will have been earned. Advisers will provide students with their standing with respect to the completion of remaining degree requirements.

## General College Rules

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.

## Advising

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.

## Petition Procedure

Any rule, regulation or action of the college may be appealed in writing. Petitions are submitted to: Office of the Dean, LAS, 327 University Hall, M/C 228. It is the student's responsibility to provide documentation in support of a petition. Submission of a petition does not imply approval.

## Full-Time Program

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.

## Program Changes

Students may add courses to their programs during the first two weeks of a term (one week in summer); however, students must obtain the instructor's permission to add a course after the first week of a term. Students may drop courses without penalty during the first ten days of the semester (through Friday of week 2). Between the 3rd week and Friday of the 6th week, undergraduates are entitled to a total of four optional late drops during their enrollment at UIC. Students must see an LAS advisor on the 3rd floor of UH by appointment (312 996-3366) or during advising walk-in days (8:30-3:30 each Tuesday).

In any term, students may withdraw (drop all courses) from the University through the last day of instruction of the term, conditional on not having earned a final grade in any course. After the 14th week of the fall and spring terms (7th week in summer), the college requires verification that the conditions for withdrawal have been met. Consult the college office to initiate the request to withdraw. For more detailed information on procedures, consult the section titled *Withdrawal*.

## 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 undergraduate catalog and the *Timetable*. Only the department may waive a prerequisite, if given evidence that the student is adequately prepared to pursue the subject.

## 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.

## Pass/Fail Option

The pass/fail option allows the student to complete a course with a grade of Pass (P) or Fail (F) instead of a letter grade. Courses completed with a grade of "P" carry credit and apply toward degree requirements. In general, grades of "P" and "F" 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 on the pass/fail 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 on pass/fail.
3. No more than two courses in a single discipline may be taken on pass/fail.
4. Only elective courses may be taken on a pass/fail basis; courses being used to meet any graduation course requirement 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 on pass/fail.
  - b. Students may not take any course used to satisfy the foreign language requirement on pass/fail.
  - c. Students may not take any course used to satisfy the course distribution requirements in the humanities, social sciences, and natural sciences on pass/fail. Until students have completed the minimum requirement of 9 semester hours in humanities, 9 semester hours in social sciences, and 13 semester hours in natural sciences, courses from these areas may not be taken on pass/fail.
  - d. Students may not take any course used to satisfy either the Quantitative Reasoning or Cultural Diversity requirement on pass/fail.
  - e. 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 on pass/fail.
  - f. Students in the health sciences curricula are advised not to complete required science courses on pass/fail.
6. A student may earn no more than 21 semester hours of credit at UIC under the pass/fail option.

Students must apply to take a course pass/fail at the college office, 309 University Hall, no later than the 10th day of the term (5th day for the summer session). After that date, students may not request courses on pass/fail nor may they change a pass/fail request previously submitted.

It is the responsibility of the student to determine eligibility under the regulations. Students requesting a course under the pass/fail 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.

## 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 3.50 (A=5.00) grade point average in all 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. Note: Fieldwork and internship courses that are specifically required in the major as stated in this catalog are excluded from this limitation.

## Academic Probation and Drop 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 3.00 (A=5.00) is earned. The probation rules apply to all liberal arts students. Academic probation at UIC cannot be removed by course work from other colleges or universities.

A student on probation is expected to earn at least a 3.00 in the next term if the UIC cumulative grade point average is a 3.00 or higher. If the UIC cumulative grade point average is lower than a 3.00 at the time of being placed on probation, the student must earn greater than a 3.00 in the next term and have a UIC cumulative grade point average of 3.00 by the end of the second term on probation. Students failing to have a cumulative grade point average of 3.00 by the end of two terms on probation will be dropped from the University.

In any term, a student may be dropped for one or more of the following reasons:

1. First-term students will be dropped after their first term of enrollment if they earn no credit or obtain a deficit of -15 points or more (A= +2, B= +1, C=0, D=-1, E=-2; each multiplied by the number of credit hours for each course taken).
2. Continuing students will be dropped 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 2.00 (D) average for a term.
5. Failure to earn at least a 3.00 (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 drop rules in extraordinary circumstances.

## Appeal of a Drop Decision

Students who have been dropped by the college may apply for re-admission after two terms (excluding the summer session) away from the University. 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.



## Changing College

Students currently enrolled at UIC who want to transfer into the College of Liberal Arts and Sciences should complete an Inter-College 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 average of at least 3.00 (A=5.00) and whose combined UIC and transfer average is at least 3.00. Those students who are accepted into LAS are expected to enroll immediately in the basic course requirements.

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.

## Academic Honors

### Dean's List

Exceptional academic achievement in the College of Liberal Arts and Sciences is recognized in each term by inclusion on the Dean's List. Eligibility is based on a 4.50 (A=5.00) term average 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 pass earned in any course taken on a pass/fail basis.

### Graduation with 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 4.50. However, in no term will the college award honors to more than 15 percent of the total number of graduates.

A student must meet one of the following conditions to graduate with College Honors:

1. If all work has been entirely in residence at UIC, the UIC cumulative average must be at least 4.50.
2. If all work has not been in residence at UIC, the UIC cumulative average (based on at least 30 graded hours), and the combined UIC plus transfer cumulative average must also be at least 4.50.

### Graduation with Departmental Distinction

Departmental Distinction is awarded at the time of graduation to those students who have shown exceptional competence in the major field of specialization. The criteria for awarding distinction are established by the departments. Consult the department listings for specific requirements.

## Special Awards and Scholarships

Students in the College of Liberal Arts and Sciences may be eligible for special awards and scholarships in addition to those available through the Office of Student Financial Aid. For more

detailed information, consult the section *Scholarships, Prizes, and Awards of Recognition* in the *Financial Aid* chapter of this catalog.

## Special Programs and Opportunities

### Cooperative Education and Internship Program

The Cooperative Education and Internship Program (Co-op) offers liberal arts and sciences students an opportunity to combine their classroom study with periods of paid or unpaid, career-related work experiences. The work experiences can be full time (alternative 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 grade point average of 3.50 or better (A=5.00).

Students in the program will be registered each semester in LAS 289 (Cooperative Education Program: Off Campus).

For more information, contact the Co-op office at (312) 996-0425, Room 350 UH.

### Proficiency Examinations

Proficiency examinations, which are similar in content to regularly scheduled final course exams, are offered by liberal arts departments. 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 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 the section *Proficiency Examinations for Enrolled Students*.

### 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 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 departments.

Additional summer, semester, and year-long study abroad programs are available through the UIC Study Abroad Office, 502 University Hall. Foreign language proficiency is not required for many of these programs.

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.

### 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, social sciences, and natural sciences.

Students applying for IPS must meet the following criteria:

1. They must have a minimum grade point average of 3.50;
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 has at least 30 hours of yet-to-be-taken courses;
3. They must present a proposal that:
  - a. explains the goals of the proposed program;
  - b. lists all courses for the proposed program (indicating which have already been completed) and explains how the selection fulfills the goals;
  - c. explains why the program cannot be pursued under an existing major;
  - d. identifies a faculty member who has been consulted in drawing up the program and has agreed to serve as the adviser;
  - e. supplies a transcript showing all previous course work and a schedule showing courses currently being taken.

In addition:

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:

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 Committee may seek additional information from the student orally or in writing. The 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.

## **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 field. 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.

## **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 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 of a major field of specialization.

For specific information on these requirements, consult *Second Bachelor's Degree* and the department listings in this 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 at least three terms prior to the intended completion date.

## **Graduate Courses**

With 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.

# African-American Studies

## 1223 University Hall

**Head of the Department:** Beth E. Richie

**Director of Undergraduate Studies:** Vacant.

**(312) 996-2950 — Fax: (312) 996-5799**

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.

## Major in African-American Studies

For the Bachelor of Arts, 33 semester hours, in either Option I or Option II, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts in Liberal Arts and Sciences. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Option I — Social Science

	Hours
AASt 100 — Introduction to African-American Studies	3
One of the following courses:	3
AASt 201 — Psychology of African-Americans (3)	
AASt 202 — African-American Behavioral Patterns (3)	
AASt 203 — The African-American Family in the U.S. (3)	
AASt 206 — Research Methods in African-American Studies: Social Science	3
AASt 247 — African-American History to 1877	3
AASt 248 — African-American History since 1877	3
AASt 340 — Advanced Seminar in African-American Studies: Social Science	3
<i>AASt 340 fulfills the Writing-in-the-Discipline requirement.</i>	
An additional 15 hours of credit in African-American studies courses selected in consultation with a departmental adviser, and distributed in the following way:	
100 level: No more than 3 hours.	
200-300 level: At least 6 hours.	
400 level: At least 3 hours.	15
<i>Students wishing to substitute 400-level courses for those at the 200 or 300 level may do so with the permission of the Department.</i>	
<b>Total Hours</b>	<b>33</b>

### Option II — Humanities

	Hours
AASt 100 — Introduction to African-American Studies	3
One of the following courses:	3
AASt 110 — Introduction to African-American Literature, 1760-1910 (3)	
AASt 111 — Introduction to African-American Literature since 1910 (3)	
AASt 205 — Research Methods in African-American Literature and Culture	3
AASt 247 — African-American History to 1877	3
AASt 248 — African-American History since 1877	3

AASt 360 — Advanced Seminar in African-American Literature	3
<i>AASt 360 fulfills the Writing-in-the-Discipline requirement.</i>	
An additional 15 hours of credit in African-American studies courses selected in consultation with a departmental adviser, and distributed in the following way:	
100 level: No more than 3 hours.	
200-300 level: At least 6 hours.	
400 level: At least 3 hours.	15
<i>Students wishing to substitute 400-level courses for those at the 200 or 300 level may do so with the permission of the Department.</i>	

**Total Hours**

**33**

## Minor in African-American Studies

18 semester hours. Students from other disciplines who want to minor in African-American studies must complete the following:

	Hours
AASt 100 — Introduction to African-American Studies	3
One of the following courses:	3
AASt 201 — Psychology of African-Americans (3)	
AASt 202 — African-American Behavioral Patterns (3)	
AASt 203 — The African-American Family in the U.S. (3)	
One of the following courses:	3
AASt 110 — Introduction to African-American Literature, 1760-1910 (3)	
AASt 111 — Introduction to African-American Literature since 1910 (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 courses at the 200, 300, or 400 level in African-American Studies, chosen in consultation with a departmental adviser.	6
<b>Total Hours</b>	<b>18</b>

## Distinction

To be considered for departmental distinction, students must have an all-University grade point average of 4.25, an average of 4.50 in all African-American Studies courses, and meet all course requirements for a major in African-American Studies. At least two terms before graduation, the interested student shall file a statement of eligibility for distinction in African-American Studies with the department adviser.

To be eligible for high or highest distinction, the student must have a grade point average of 4.75 in all African-American Studies courses and meet the other requirements for departmental distinction. In addition, eligible students must enroll in an African-American studies 300- or 400-level course, write a research paper in completion of this course demonstrating excellent work, submit it before the end of the term to the instructor, and make a seminar presentation on this paper 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 grade point average, the paper, and the presentation.

# Anthropology

**2102 Behavioral Sciences Building**

**Head of the Department:** John D. Monaghan.

**Director of Undergraduate Studies (Anthropology):** James L. Phillips.

**(312) 413-3570 — Fax: (312) 413-3573**

## Anthropology

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 health care services, social case work, cultural resource management, museum education, public housing, employment and personnel counseling, public office, peace corps, field archaeology, import businesses, market research, foreign service, and social and environmental planning.

## Major in Anthropology

For the Bachelor of Arts, 35 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts in Liberal Arts and Sciences. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Anth 101, 102, 103	10
One course in physical anthropology chosen from 231, 235, 237	4
One course in archaeology chosen from 220, 221, 222, 226, 227, 228	3
One course in ethnography chosen from 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280	3
Anth 309	3
Anth 309 fulfills the Writing-in-the-Discipline requirement.	
Four additional courses of which at least two must be at the 300 or 400 level	12
<b>Total Hours</b>	<b>35</b>

Courses for the major are chosen in consultation with the department's program adviser. A major interested in a subdivision of anthropology (social, physical, archaeological, or linguistic) must arrange a suitable program of electives with an adviser.

## Minor in Anthropology

For the Minor in Anthropology, 19 semester hours. Students from other disciplines who want to minor in anthropology must complete the following:

	Hours
Anth 101, 102, and 103	10
Three anthropology courses at the 200, 300, or 400 level	9
<b>Total Hours</b>	<b>19</b>

Courses for the minor are chosen in consultation with the department's program adviser.

## Distinction in Anthropology

A candidate must have a 4.00 all-University average, a 4.50 department average, meet all the requirements for a major in anthropology, and satisfactorily complete a thesis in Anthropology 390. 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

For the minor, 19 semester hours. Students from other disciplines who want to minor in geography must complete the following:

	Hours
Geog 100, plus one additional 100-level course	6
One 200-level regional or urban course	3
One 200-level topical course	3
One 200-level methods course	4
One 300- or 400-level topical or urban course	3
<b>Total Hours</b>	<b>19</b>

# Art History

**302 Henry Hall**  
**Chairperson:** Robert Brueggemann.

**(312) 413-2469**

The Department of Art History offers a Bachelor of Arts degree with a major in art history for students in the College of Liberal Arts and Sciences. The program 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.

Students seeking admission to the Department of Art History must have a minimum transfer grade point average of 3.50 (A= 5.00) from any other program at UIC, or from any accredited community college or four-year college or university in order to be considered for admission. However, admission to the Department of Art History is selective and competitive and admissions standards are typically higher than the minimum.

For information on the Department of Art History at UIC, see the web page <http://www.uic.edu/depts/arch/ah>.

## Major in Art History

For the Bachelor of Arts in Liberal Arts and Sciences, 40 semester hours in required foundation and major courses as distributed below. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Foundation Courses

	Hours
AH 110 —Art History I	4
AH 111 —Art History II	4
<b>Total Hours</b>	<b>8</b>

### Courses for the Major

A minimum of 32 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:

	Hours
AH 200 —Theories and Methods in Art History <i>AH 200 fulfills the Writing-in-the-Discipline requirement.</i>	3
At least three of the required hours at the 400 level must be selected from among the following courses: AH 404, 422, 430, 432, 434, 435, 441, 450, 460, 463, 470, 471	3
Six semester hours in courses covering Western material primarily before 1700	6
Six semester hours in courses covering non-Western architecture and art	6

In addition to those courses required for the major, no more than 24 semester hours may be taken in courses offered by the College of Architecture and the Arts.

## Minor in Art History

A minimum of 20 semester hours in art history courses distributed as follows:

	Hours
AH 110 —Art History I	4
AH 111 —Art History II	4
AH courses at the 200, 300, or 400 levels	12
<b>Total Hours</b>	<b>20</b>

A minimum grade point average of 3.25 is required for the minor.

## Distinction

**Departmental Distinction.** To be eligible for Departmental Distinction, a student must have:

1. Attended UIC for at least three semesters.
2. A university cumulative grade point average of 4.50.
3. Completed 21 semester hours at UIC in courses required for the major.
4. A grade point average of 4.75 in courses in art history.
5. Written a thesis that either expands work represented in a seminar or which grows out of an AH 492 (Readings in Art and Architecture History) course.

### Thesis Requirements.

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 (in order to avoid time crunches and pressure to accept work that needs more attention).
3. The completed thesis must be acceptable to a committee of two faculty members from the Art History Department.
4. The grading of the thesis and the grade in the course will be either "Satisfactory" or "Unsatisfactory." Students must receive a grade of "Satisfactory" in order to graduate with Distinction.
5. The first thesis reader will be the faculty member for whom the student originally wrote the paper in a seminar or reading course. The second reader will be selected by the first reader with the concurrence of the department chairperson.
6. Completion of AH 490 must be in addition to the 36 credit hours required for the major.



# Asian Studies

## 409 University Hall

**Committee Chairs:** John S. Rohsenow, Laura Hostetler.

**(312) 996-3361 — Fax: (312) 413-2511**

## Minor in Asian Studies

The minor in Asian Studies introduces the student to the history and cultures 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 the following courses.

	Hours
Hist 109, 110	6
Three courses appropriate to the Asian Studies option, chosen in consultation with an adviser	9
<b>Total Hours</b>	<b>15</b>

### Courses Recommended for the Minor in Asian Studies

A complete description of each of these courses may be found in the appropriate course listings of the department.

#### Anthropology (Anth)

215 —Non-Western Religions	3
273 —Ethnography of Southeast Asia	3

#### Asian Studies (AsSt)

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
275 —History of South Asia <i>Same as Hist 275</i>	3
279 —India, Pakistan, and Ceylon: Society and Culture <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 Art <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
479 —Culture and Colonialism in South Asia <i>Same as Anth 479, Hist 479</i>	3

#### Economics (Econ)

325 —Topics in Economic History <sup>a</sup>	3
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#### History (Hist)

109 —East Asian Civilization: China	3
110 —East Asian Civilization: Japan	3
112 —Introductory Seminar in East Asian History	3
271 —Late Imperial China: 1500-1911	3
272 —China Since 1911	3
273 —Japan to 1600	3
274 —Japan Since 1600	3
471 —Topics in East Asian History	3
497 —Topics in Cultural History <sup>a</sup>	3

#### Linguistics and Languages

*Only one course in either Chinese or Japanese language may be counted toward the minor.*

Chin 101 —Elementary Chinese I	4
Chin 102 —Elementary Chinese II	4
Chin 103 —Intermediate Chinese I	4
Chin 104 —Intermediate Chinese II	4
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 201 —Advanced Japanese I	3
Jpn 202 —Advanced Japanese II	3
Jpn 215 —Japanese Language and Culture <i>Same as Ling 215</i>	3

#### Sociology (Soc)

440 —Topics in Organizations and Institutions <sup>a</sup>	3
448 —Sociology of Development <sup>a</sup>	3

#### Theater (Thtr)

245 —East Asian Theater	3
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<sup>a</sup> When topic is Asia.

# Biochemistry

**Interdepartmental Biochemistry Committee:** Louise E. Anderson (Biological Sciences), Albert S. Benight (Chemistry), Howard E. Buhse, Jr. (Biological Sciences), Richard J. Kassner (Chemistry), Brian P. Nichols (Biological Sciences), Paul R. Young (Chemistry).

## Curriculum in Biochemistry

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 of the Department of Chemistry.

The program is certified by the American Chemical Society and endorsed by the American Society of Biochemistry and Molecular Biology. 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 either through the Department of Chemistry or the Department of Biological Sciences.

### Requirements for the Curriculum

The curriculum requires a minimum of 120 semester hours as distributed below. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Engl 160, 161	6
Foreign language (the equivalent of two years of a single language at the college level)	0–16
Humanities	9
Social sciences	9
Math 180, 181	10
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
One of the following two sequences in Physics:	8–10
Phys 141, 142 (8)	
Phys 105, 106, 107, 108 (10)	
BioS 100, 101, 220	13
One of the following two general and analytical chemistry sequences:	14
Chem 116, 118, 222 (14)	
Chem 112, 114, 222 (14)	
Chem (organic) 232, 233, 234	9
One of the following physical chemistry sequences:	8–9
Chem 342, 343, 346 (9)	
Chem 342, 343, 344 (8)	
<i>Chem 343 fulfills the Writing-in-the-Discipline requirement.</i>	
Chem or BioS (biochemistry) 452, 454	8
Chem 455 (biochemistry laboratory)	3
Chem 314 (inorganic)	4
Electives, chosen in consultation with an academic adviser, including at least two advanced-level courses (6 hours) in biological sciences. One of these courses must be from either the area of cell and molecular biology or the area of microbiology.	6–19
<b>Total Hours</b>	<b>120</b>

For course descriptions, see listings for *Biological Sciences* and *Chemistry*.

## 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 grade point average of at least 4.50 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) or biological sciences (BioS 399).

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 grade point average of at least 4.70 in chemistry, biology, mathematics, and physics courses.

**Highest Distinction:** In addition to fulfilling criterion 2 above, a grade point average of at least 4.80 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.

## Recommended Plan of Study

FIRST YEAR	Hours
Math 180, 181	10
Chem 116, 118; or 112, 114	10
BioS 100, 101	10

SECOND YEAR	Hours
Phys 141, 142; or 105, 106, 107, 108	8 or 10
Chem 232, 233, 234	9
Chem 222	4
BioS 220	3
College requirements	

THIRD YEAR	Hours
Chem 314	4
Chem 342, 343, 346; or 342	9 or 3
Electives and college requirements	

FOURTH YEAR	Hours
Chem or BioS 452, 454	8
Chem 343, 344; or none	5 or 0
Chem 455	3
Electives and college requirements	

*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.*

# Biological Sciences

## 3268 Science and Engineering South

**Head of the Department:** Lon Kaufman.

**Director of Undergraduate Studies:** Stephen Kelso.

**(312) 996-2211 — Fax: (312) 413-2435**

The biological sciences 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, development, 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, 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 programs leading to the Bachelor of Science in Liberal Arts and Sciences with a Major in Biological Sciences and the Bachelor of Science in the Teaching of Biology. A Minor in Biological Sciences is also offered.

## Major in Biological Sciences

For the Bachelor of Science, 36 semester hours (of which 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), including the courses below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in Liberal Arts and Sciences. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Requirements for the Major

	Hours
BioS 100 —Biology of Cells and Organisms	5
BioS 101 —Biology of Populations and Communities	5
BioS 220 —Mendelian and Molecular Genetics	3
BioS 221 —Genetics Laboratory	3
<i>Fulfills Writing-in-the-Discipline Requirement.</i>	
BioS 222 —Cell Biology	3
BioS 230 —Ecology and Evolution	3
BioS 240 —Homeostasis: The Physiology of Plants and Animals	3

**Laboratory:** At least two courses from the list below (assuming prerequisites have been met).

	Hours
BioS 223 —Cell Biology Laboratory	2
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 435 —Population Biology Laboratory	2
BioS 441 —Plant Physiology Laboratory	2
BioS 442 —Nerve and Muscle Physiology	4
<i>Only with BioS 443.</i>	
BioS 443 —Animal Physiological Systems	4
<i>Only with BioS 442.</i>	
BioS 445 —Plant Growth and Development Laboratory	2

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.

### Required Prerequisite and Collateral Courses for the Major:

	Hours
Chem 112, 114 or 116, 118	10
Chem 232, 233, 234	9
Math 180	5
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
One of the following course sequences:	8 or 10
Phys 105, 106, 107, 108 (10)	
Phys 141, 142 (8)	

## Minor in Biological Sciences

For the minor, 21 semester hours. Students from other disciplines who want to minor in biological sciences must complete the following:

	Hours
BioS 100 and 101	10
Courses in biological sciences at the 200 level or above, chosen in consultation with a department adviser	11
<b>Total Hours</b>	<b>21</b>

## Distinction

*Departmental Distinction* is awarded to students with a minimum 4.70 grade point average in biological sciences courses and to students with a minimum 4.30 grade point average in biological sciences courses who successfully complete BioS 399.

*Highest Departmental Distinction* is awarded to students who have a minimum 4.70 grade point average in biological sciences courses and who successfully complete BioS 399.

## Teacher Education in Biological Sciences<sup>1</sup>

*Requirements for Teaching in Secondary Schools*

### Requirements for the Major

For the Bachelor of Science, 36 semester hours, distributed as for majors, including BioS 401 and electives chosen to provide a balance between plant and animal biology. In addition to the specified course work, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in the Teaching of Biological Sciences. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

1. Until further notice, no new students will be admitted to the program in Teacher Education in the Biological Sciences. For further information, consult the department.

## Required Prerequisite and Collateral Courses

	Hours
Chem 112, 114	10
Chem 232, 233, 234	9
Math 121, 180	10
<i>Math 121, 180 also fulfill the LAS Quantitative Reasoning Requirement.</i>	
One of the following course sequences:	8 or 10
Phys 105, 106, 107, 108 (10)	
Phys 141, 142 (8)	

In addition to specified course work in the major field, the teacher education student must fulfill certain other course requirements, including BioS 402 and 403, as well as maintain a minimum cumulative grade point average of 3.50 (A=5.00). (For detailed information, see *Program Guide for Teacher Education in Biological Sciences*, available from the secondary education coordinator in the Department of Biological Sciences.)

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 College of Education's Office of Student Services.



# Chemistry

## 4500 Science and Engineering South

**Acting Head of the Department:** Donald Wink.

**Director of Undergraduate Studies:** John Morrison.

**(312) 996-3161 — Fax: (312) 996-0431**

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. The program has been approved by the American Chemical Society, and its graduates are immediately eligible for full membership in the society.

(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 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 listing for *Biochemistry*.

(4) The Bachelor of Science in the Teaching of Chemistry is a specialized program for prospective high school chemistry teachers.

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 a chemistry major by the end of the freshman year. Transfer students should declare the major at the time of registration or during their first term in residence. Students considering changing to a major in chemistry at a later point in their careers should first obtain advice from the department.

## Major in Chemistry

For the Bachelor of Arts, 38-39 semester hours, as distributed below. In addition to the course work specified, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts in Liberal Arts and Sciences. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Requirements for the Major

	Hours
Chem (general and analytical) 112, 114, 222; <i>or</i> 116, 118, 222	14
Chem (organic) 232, 233, 234, 235	11
Chem (physical) 342, 343, 346; <i>or</i> 342, 343, 344, and 3 hours of 400-level chemistry courses	9-11
<i>Chem 343 fulfills the Writing-in-the-Discipline requirement.</i>	
Chem (inorganic) 414	3
Chemistry electives	0-1
<b>Total Hours</b>	<b>38-39</b>

## Required Prerequisite and Collateral Courses

	Hours
Math 180, 181	10
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Phys 141, 142 (recommended); <i>or</i> 105, 106, 107, 108	8-10

## Minor in Chemistry

For the minor, 21 semester hours. Students from other disciplines who want to minor in chemistry must complete the following.

	Hours
Chem (general) 112, 114; <i>or</i> 116, 118	10
Chem (organic) 232, 233	5
Chem (analytical) 222	4
Chem electives at the 200 level or above	2
<b>Total Hours</b>	<b>21</b>

## Teacher Education in Chemistry

### Requirements for Teaching in Secondary Schools

#### Requirements for the Major

For the Bachelor of Science, 39 semester hours, as distributed below. In addition to the course work specified here, the student must fulfill certain additional requirements, discussed below, to be awarded the Bachelor of Science in the Teaching of Chemistry. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Chem 116, 118, 222; <i>or</i> 112, 114, 222	14
Chem (organic) 232, 233, 234	9
Chem 302	2
Chem (physical) 342, 343, 344	8
<i>Chem 343 fulfills the Writing-in-the-Discipline Requirement.</i>	
Chem (inorganic) 414	3
Chem (chemistry teaching methods) 472	3
<b>Total Hours</b>	<b>39</b>

## Required Prerequisite and Collateral Courses

	Hours
Mathematics 180, 181, 210	13
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Phys 141, 142 (recommended); <i>or</i> 105, 106, 107, 108	8-10
Chem 470, 471	12
<b>Total Hours</b>	<b>33-35</b>

## Additional Requirements for Teacher Certification

	Hours
Ed 200	3
Ed 210	3
Ed 330	4
CIE 414	4
SPED 410	3
<b>Total Hours</b>	<b>17</b>

## Additional Requirements for Science Teacher Certification

	Hours
NatS 103 or Bios 100 and Bios 101	4 or 10
NatS 101 or Phys 112 and EaES 107	4 or 9
<b>Total Hours</b>	<b>8 or 19</b>

Teacher education students must fulfill certain other course requirements for certification, discussed below. They must also maintain a minimum cumulative grade point average of 3.50 (A=5.00) in all undergraduate courses and in all undergraduate chemistry courses including transferred courses. A grade point average of 4.00 in required education courses, with no grade lower than a C in each of the courses, is also required. A grade point average of 3.50 in undergraduate chemistry courses including transferred courses is also required for registration in the student teaching semester (Chemistry 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 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 (beginning in Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). 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 Programs*).

## Curriculum in Chemistry

The Bachelor of Science in chemistry requires a minimum of 120 semester hours as distributed below. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Engl 160, 161	6
Foreign language (the equivalent of two years in a single language at the college level)	0–16
Humanities	9
Social sciences	9
Math 180, 181, 210	13
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Phys 141, 142	8
Chem (general and analytical) 116, 118, 222 (recommended); or 112, 114, 222	14
Chem (organic) 232, 233, 234, 235, 432	13
Chem (physical) 342, 343, 346, 444	11
<i>Chem 343 fulfills the Writing-in-the-Discipline requirement.</i>	
Chem (inorganic) 414, 415, 416	8
Chem (analytical) 421	4
Chem 302	2
Electives at the 300 level or above in the natural sciences and/or mathematics, as approved by the departmental adviser	6
Electives	1–17
<b>Total Hours</b>	<b>120</b>

## 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:

1. Completed a BS degree or have a distribution of courses with advanced hours in chemistry beyond the BA requirements.
2. Earned a grade point average of at least 4.50 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 grade point average of 4.70 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 grade point average of 4.80 or above in science and mathematics courses, and to present evidence of exceptional performance in research.

## 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 listing on *Biochemistry for more information on the BS in Biochemistry, and Secondary Education Program in the College of Education* for more information on the BS in the Teaching of Chemistry.)

FIRST YEAR	Hours
Math 180, 181	10
Chem (general and analytical) 116, 118; or 112, 114	10
College requirements	
SECOND YEAR	Hours
Chem (organic) 232–235	11
Chem (analytical) 222	4
Phys 141, 142; or 105, 106, 107, 108	8 or 10
<i>Note: Phys 105, 106, 107, 108 not acceptable for the BS in Chemistry degree.</i>	
Math 210	3
<i>Note: Math 210 required for the BS in Chemistry and the B.S. in the Teaching of Chemistry degrees only.</i>	
Chem 302	2
<i>Note: Chem 302 required for the BS degree only.</i>	
College requirements	

<b>THIRD YEAR</b>	<b>Hours</b>
Chem (physical) 342, 343	6
Chem 344 or 346	2 or 3
<i>Note: Chem 344 not acceptable for the BS in Chemistry degree.</i>	
Chem (organic) 432	2
<i>Note: Chem 432 required for the BS in Chemistry degree only.</i>	
Chem (inorganic) 414	3
Chem (instrumental analysis) 421	4
<i>Note: Chem 421 required for the BS in Chemistry degree only.</i>	
College requirements and electives	

<b>FOURTH YEAR</b>	<b>Hours</b>
Chem (inorganic) 415, 416	5
<i>Note: Chem 415, 416 required for the BS in Chemistry degree only.</i>	
Chem 444	3
<i>Note: Chem 444 required for the BS in Chemistry degree only.</i>	
College requirements and electives.	
Supervised Research (recommended)	

*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.*

# Classics and Mediterranean Studies

1204 University Hall

Chairperson of the Department: John T. Ramsey.

Director of Undergraduate Studies: Jennifer Tobin.

(312) 996-3281 — Fax: (312) 996-8526

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 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.

## Major in Classical Languages and Literatures

For the Bachelor of Arts, 27 semester hours. Majors in classical languages and literatures must complete a specialization in either Ancient Greek or Latin. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Specialization in Ancient Greek

	Hours
Six courses in Ancient Greek (exclusive of Ancient Greek 101, 102) with a minimum of 12 hours at the 200 level or above	18
CL 398	3
<i>CL 398 fulfills Writing-in-the-Discipline requirement.</i>	
Two additional courses in Classics or Archaeological Studies in the Department of Classics and Mediterranean Studies, at the 100 level or above (exclusive of CL 201) chosen from the areas of Greek literature, archaeology, and history	6
<b>Total Hours</b>	<b>27</b>

### Specialization in Latin

	Hours
Six courses in Latin at the 200 level or above	18
CL 398	3
<i>CL 398 fulfills Writing-in-the-Discipline requirement.</i>	
Two additional courses in Classics or Archaeological Studies in the Department of Classics and Mediterranean Studies at the 100 level or above (exclusive of CL 201) chosen from the areas of Roman literature, archaeology, and history	6
<b>Total Hours</b>	<b>27</b>

## Minor in Ancient Greek or Latin

For the minor, 18 semester hours. Students 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 in courses at the 200 level or above.

## Major in Classical Civilization

### Required for the Major

For the Bachelor of Arts, 27 semester hours of courses in classical civilization or Archaeological Studies in the Department of Classics and Mediterranean Studies. Among these courses, students will be advised to take at least one from each of three areas: literature, archaeology, and history. The program must include a minimum of 18 hours at the 200 level or above (exclusive of CL 201), and one of these courses must be CL 398 (fulfills Writing-in-the-Discipline requirement).

A maximum of 9 hours may be chosen from the following related courses in other departments, which are cross-listed with Classics:

Hist 202, 203, 401, 402, 404

AH 220, 240, 241

Phil 120, 220, 221

A maximum of 8 hours of the major may be chosen from approved courses in Ancient Greek or Latin.

### Required Collateral Courses for the Major

	Hours
GkA 101-104 or Lat 101-104 or the equivalent	16

In addition to the specified course work above, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

## Minor in Classical Civilization

For the minor, 18 semester hours. Students from other disciplines who want to minor in classical civilization must complete the following:

	Hours
One course at the 100 level	3
One course from CL 204, 205; Hist 202, 203	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
<b>Total Hours</b>	<b>18</b>

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 grade point average of 4.75 in all courses counted for the major and a 4.25 overall grade point average are recommended for department honors with distinction.



# Communication

**1140 Behavioral Sciences Building**

**Head of the Department:** Steve Jones.

**Director of Undergraduate Studies:** Rebecca Lind.

**(312) 996-3187 — Fax: (312) 413-2125**

The Department of Communication highlights the processes, effects, and role of communication for creating relationships in human societies. Courses are organized to facilitate the student learning process. The core courses introduce students to fundamental concepts, theories, issues, and research methods in communication, and prepare the student for material to be encountered in advanced-level course work. Core courses address underlying principles that govern communication in a variety of settings, introduce students to general definitions, theory, and applications of communication, and expose students to skills in library research, critical thinking, and argumentative writing and speaking. Subsequent courses are divided into two categories: analysis and research. The analysis courses provide students with an understanding of a variety of frameworks, theories and processes by which to practice and analyze communication. Analysis courses emphasize observation, production and consumption as critical processes with which students continually engage. Research courses emphasize systematic inquiry, which fosters a critical understanding of the ways in which communication creates meaning about the world, and engage students in the research process.

## Major in Communication

### Admission Requirements

Prior to declaring a major in Communication, students must have the following:

A minimum of 24 credit hours of courses in the College of Liberal Arts and Sciences,

A cumulative grade point average of 3.5, and

A grade of at least a “C” in Comm 101 (Introduction to Communication)

### Major Requirements

For the Bachelor of Arts, 36 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Comm 101 —Introduction to Communication	3
Comm 102 —Introduction to Interpersonal Communication	3
Comm 103 —Introduction to Media	3
Comm 200 —Communication Technologies	3
Comm 201 —Communication Analysis	3
<i>Comm 201 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Comm 203 —Communication and Culture	3
Comm 301 —Communication Research	3
<i>Comm 301 fulfills the Writing-in-the-Discipline requirement.</i>	
Three Communication Analysis courses chosen from:	9
Comm 300 —Media Systems (3)	
Comm 304 —Male–Female Communication (3)	
Comm 306 —Organizational Communication (3)	
Comm 311 —Interviewing and Communication (3)	

Comm 312 —Argumentation (3)	
Comm 313 —Persuasion (3)	
Comm 314 —Public Discourse Practice and Analysis (3)	
Comm 315 —Group Communication (3)	
Comm 316 —Writing for Electronic Media (3)	
Comm 330 —Mass Media and Popular Culture (3)	
Comm 416 —Conflict and Communication (3)	
Comm 474 —Internship <sup>a</sup> (3–8)	
Comm 494 —Special Topics in Communication <sup>b</sup> (3)	
Two Communication Research courses chosen from:	6
Comm 404 —Discourse Analysis (3)	
Comm 410 —Rhetorical Criticism (3)	
Comm 430 —Media, Information and Society (3)	
Comm 434 —Global Communication Systems (3)	
Comm 467 —Public Opinion and Political Communication (3)	
Comm 473 —Organizations and Their Publics (3)	
Comm 490 —Communication, Culture, and Society (3)	
Comm 494 —Special Topics in Communication <sup>b</sup> (3)	
Comm 498 —Independent Study <sup>a</sup> (1–4)	

**Total Hours** **36**

<sup>a</sup> No more than 3 hours of Comm 474 and 3 hours of Comm 498 may be applied toward the degree.

<sup>b</sup> Comm 494 may fit either category, depending on the particular offering in a given semester.

Comm 454 does not count toward the major or minor in Communication.

All course work taken to satisfy the communication major must have a grade of “C” or better. In addition, a minimum grade point average of 3.00 is required in all courses in the major field taken at UIC. (This is the LAS policy regarding all majors.)

## Minor in Communication

For the minor, 18 semester hours. A grade of at least a “C” must be earned in all courses counting toward the minor. Students from other disciplines who wish to minor in Communication must complete the following:

	Hours
Comm 101 —Introduction to Communication	3
Comm 102 —Interpersonal Communication	3
Comm 103 —Media Processes and Effects	3
Comm 200 —Communication Technologies	3
Two Comm electives at the 300- or 400-level (except Comm 454)	6
<i>With approval, other social science Quantitative Reasoning courses may be substituted for the Comm 201 prerequisite.</i>	

**Total Hours** **18**

## Distinction

For distinction, the requirements are a cumulative grade point average of 4.25 and a departmental grade point average of 4.50.

For high distinction, the requirements are a cumulative grade point average of 4.25, a departmental grade point average of 4.50, 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.

# Criminal Justice

## 4022 Behavioral Sciences Building

**Interim Head of the Department:** Joseph L. Peterson.

**Director of Undergraduate Studies:** Gregory Matoesian.

**(312) 996-5290 — Fax: (312) 996-8355**

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.

## Major in Criminal Justice

### Admission Requirement

Prior to declaring a major, students must pass CrJ 101 with a grade of “C” or better.

### Major Requirements

For the Bachelor of Arts, 33 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
CrJ 101	3
CrJ 200, 210, 220, 240, 261, 262	18
<i>CrJ 262 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
One course from CrJ 345, 350, 355	3
CrJ 301	0
<i>CrJ 301 fulfills the Writing-in-the-Discipline requirement.</i>	
Three courses at the 300 or 400 level	9
<i>Only 3 hours of CrJ 395 may be applied toward the major.</i>	
<b>Total Hours</b>	<b>33</b>

## Minor in Criminal Justice

For the minor, 18 semester hours. Students from other disciplines who want to minor in criminal justice must complete the following courses:

	Hours
CrJ 101	3
CrJ 200, 210, 220, 240	12
One course at the 300 or 400 level chosen with the consent of the adviser	3
<b>Total Hours</b>	<b>18</b>

## Minor in Law and Society

For the minor, 18 semester hours. Students from other disciplines who want to minor in law and society must complete the following courses:

	Hours
One course chosen from Phil 102, Phil 103, Econ 120, Econ 121	3
One course chosen from CrJ 101, PolS 101	3
Four courses must be selected from one of the following tracks:	12

**Criminal Justice:** CrJ 110, 210, 310, 311

**Law in Social Context:** PolS 120, CrJ 200, CrJ 220, CrJ 423, CrJ 424, Hist 251, Hist 404

**Public Law:** PolS 253, 254, 255, 256, 258

**Total Hours** **18**

Courses in the student's own 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 4.50 cumulative grade point average in all criminal justice courses and a 4.25 all-University grade point average.

**High Distinction:** A candidate must have a 4.50 cumulative grade point average in all criminal justice courses, a 4.25 all-University grade point average, and complete a paper written for CrJ 399, 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.

# Earth and Environmental Sciences

## 2460 Science and Engineering South

**Head of the Department:** Neil C. Sturchio

**Director of Undergraduate Studies:** Roy E. Plotnick.

**(312) 996-3154 — Fax: (312) 413-2279**

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. It views 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.

## Major in Earth and Environmental Sciences

For the Bachelor of Science, 38 semester hours as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Core Courses for All Majors

The following courses (16 hours) must be taken by all majors. Students then choose either the Earth Sciences Specialization or the Environmental Earth Sciences Specialization.

	Hours
EaES 101, 102	10
EaES 220	4
EaES 390	2
<i>EaES 390 fulfills the Writing-in-the-Discipline Requirement.</i>	
<b>Total Hours</b>	<b>16</b>

### Specialization in Earth Sciences

	Hours
12 hours from EaES 310, 330, 350, 360	12
EaES 400	6
EaES 440	4
<b>Total Hours</b>	<b>22</b>

### Required Prerequisite and Collateral Courses, Specialization in Earth Sciences

	Hours
Phys 105, 106, 107, 108 or 141, 142	8-10
Chem 112, 114	10
Math 180, 181	10
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
<b>Total Hours</b>	<b>28-30</b>

### Specialization in Environmental Earth Sciences

	Hours
EaES 200, 285	6
EaES 310	4
EaES 475	4
Eight hours from EaES 350, 440, 470, 480	8
<b>Total Hours</b>	<b>22</b>

### Required Prerequisite and Collateral Courses, Specialization in Environmental Earth Sciences

	Hours
Chem 112	5
Chem 130 or 114	5
Math 180, 181	10
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Phys 105, 106 or 141	4-5
Two courses in the area of environmental studies, chosen in consultation with the department undergraduate adviser.	5-6
<b>Total Hours</b>	<b>29-31</b>

## Minor in Earth and Environmental Sciences

For the minor, 18 semester hours. Students from other disciplines who want to minor in earth and environmental sciences must take 18 hours, chosen with the approval of the department. A maximum of 10 hours may be at the 100 level. EaES 200 is required. At least 9 hours must be taken at the 200 level or above.

## Distinction

To be recommended for graduation with departmental distinction, a student must have a grade point average in mathematics and science courses of 4.20 or better, 4.50 or better for high distinction, and 4.70 or better for highest distinction as well as superior performance in EaES 396.

# Economics

## 2103 University Hall

**Head of the Department:** Barry R. Chiswick.

**Director of Undergraduate Studies:** Evelyn L. Lehrer.

**(312) 996-2683**

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.

## Major in Economics

For the Bachelor of Arts in Liberal Arts and Sciences, 37 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required for the Major

	Hours
Econ 120, 121	6
Econ 220, 221	6
<i>The four-hour Econ 218 may substitute for Econ 220.</i>	
Econ 270	4
Econ 345	3
Econ 346	3
Econ 395	0
<i>Econ 395 fulfills the Writing-in-the-Discipline requirement.</i>	
Five economics courses at the 300 or 400 level	15
<i>The required Econ 345 and 346 courses may not be used as part of the five elective courses at the 300 or 400 level.</i>	
<b>Total Hours</b>	<b>37</b>

Students may choose *any* five 300- or 400-level courses to satisfy 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:** Managerial Economics, Business Conditions Analysis, Business Forecasting Using Time-Series Methods, International Economics, Industrial Organization, Monetary Theory, Economics of Risk and Insurance

**Human Resources:** Labor Economics, Economic Development, Economic Demography, Health Economics, Economics of Education

**Urban Economics:** Urban Economics, Regional Economics, Introduction to Urban Real Estate, Environmental Economics, Labor Economics, Real Estate Finance, Real Estate Markets and Valuation

**International Studies:** International Economics, Economic Development, Business Conditions Analysis, Economic Demography, Monetary Theory

**Pre-Graduate School in Economics/Business/Public Policy/Public Administration:** Mathematical Economics, Labor Economics, Industrial Organization, International Economics, Public Finance, Economic History of the United States, Economic Development, Urban Economics, History of Economic Thought

**Pre-Law:** Law and Economics, Government and Business, Public Finance, Industrial Organization, Economic History of the United States, Economics of Risk and Insurance, Labor Economics, Health Economics

### Required Prerequisite and Collateral Course

5 semester hours, distributed as follows:

	Hours
Math 160	5

In addition to those courses required for the major, no more than 24 semester hours may be taken in courses offered by the College of Business Administration.

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.*

## Minor in Economics

18 semester hours. Liberal arts students who wish to minor in economics must complete the following:

	Hours
Econ 120, 121	6
Econ 220, 221	6
<i>The four-hour Econ 218 may substitute for Econ 220.</i>	
Two economics courses at the 300 or 400 level	6
<b>Total Hours</b>	<b>18</b>

Economics courses are listed under *College of Business Administration* courses in this catalog.



## Distinction

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Departmental distinction may be awarded if the student meets the following criteria:

**Distinction:** 4.25 overall grade point average  
4.25 economics grade point average

**High Distinction:** 4.50 overall grade point average  
4.50 economics grade point average

**Highest Distinction:** 4.75 overall grade point average  
4.75 economics grade point average

# English

## 2027 University Hall

**Head of the Department:** Walter Benn Michaels.

**Director of Undergraduate Studies:** Lisa A. Freeman

**(312) 413-2200 — Fax: (312) 413-1005**

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 whose thoughtful craftsmanship qualifies them as literature, whether by writers from Britain, the United States, or elsewhere;
2. the study of literary criticism and theory, of the relationship between literature and popular culture, and of allied narrative forms such as film;
3. the study of the English language in its historical development and present state, including cognitive dimensions of language and the development of literacy;
4. the theory and practice of writing, whether of poetry, fiction, or expository forms;
5. the theory and practice of teaching English language and literature, particularly at the secondary level.

A major in English develops critical thinking and language skills and is widely accepted and endorsed as preparation for a variety of careers in law, government, teaching, writing, and editing.

## Major in English

For the Bachelor of Arts, 39 semester hours. Majors in English must complete either the Literature Option or the Writing Option. Each English major is urged to consult regularly with a departmental adviser. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### General Requirements

The following courses must be taken by English majors in both the Literature and Writing options. This requirement also applies to transfer students who have not had equivalent courses.

	Hours
Engl 101 —Understanding Literature	3
One additional course chosen from among Engl 102–121	3
<b>Total Hours</b>	<b>6</b>

### Literature Option

(33 semester hours)

	Hours
<b>I. Core in Literature</b>	
Engl 300 —Introduction to Literary Criticism and Scholarship <i>Engl 300 fulfills Writing-in-the-Discipline requirement</i>	3
Engl 241 —History of English Literature I: Beginnings to 1700	3
Engl 242 —History of English Literature II: 1700 to 1900	3
Engl 243 —History of American Literature: Beginnings to 1914	3
One of the following courses:	3
Engl 313 —Major Plays of Shakespeare (3)	
Engl 413 —Studies in Shakespeare (3)	
One course in Literature after 1900 at the 300 or 400 level	3
<b>Total Hours</b>	<b>18</b>

	Hours
<b>II. Culture, Theory, Genre, Language</b>	
One course from two of the following groups:	
<b>Literary Genres:</b> 303, 304, 305, 306, 395, 496	
<b>Criticism and Theory:</b> 475, 476, 477	
<b>Cinematic Narrative:</b> 232, 233, 302, 472	
<b>Cultural Studies:</b> 250, 251, 252, 469, 470, 471, 474, 478, 479	
<b>Language and Rhetoric:</b> 380, 400, 401, 402, 483, 484, 485	
<b>Total Hours</b>	<b>6</b>

	Hours
<b>III. Electives</b>	
Three advanced English courses, <i>two</i> of which must be at the 300 or 400 level	9
<b>Total Hours</b>	<b>9</b>

### Writing Option

(33 semester hours)

	Hours
<b>I. Literature in the Writing Option</b>	
Engl 300 —Introduction to Literary Criticism and Scholarship <i>Engl 300 fulfills Writing-in-the-Discipline requirement</i>	3
Two courses from among Engl 241, 242, 243	6
One of the following courses:	3
Engl 313 —Major Plays of Shakespeare (3)	
Engl 413 —Studies in Shakespeare (3)	
One course in Literature after 1900 at the 300 or 400 level	3
<b>Total Hours</b>	<b>15</b>
	Hours

### II. Writing Courses in the Writing Option

One of the following sequences:	
<b>Fiction:</b> Engl 212, 491	
<b>Poetry:</b> Engl 210, 490	
<b>Non-Fiction:</b> Engl 201, 492	6
Three additional courses chosen from Engl 201, 202, 210, 212, 214, 490, 491, 492, 493	9
<b>Total Hours</b>	<b>15</b>
	Hours

<b>III. Electives</b>	
One elective in English at the 300 or 400 level <i>Elective suggested for Writing Option majors specializing in nonfiction writing: Engl 380 or 400, 401, 402</i>	3
<b>Total Hours</b>	<b>3</b>

## Minor in English

For the minor, 18 semester hours. Students from other disciplines who want to minor in English must complete the following:

	Hours
Engl 101 —Understanding Literature	3
One additional course from among 102–121	3
One of the following courses:	3
Engl 241 —History of English Literature I: Beginnings to 1700 (3)	
Engl 242 —History of English Literature II: 1700 to 1900 (3)	

Engl 243 —History of American Literature: Beginnings to 1914	3
Two additional courses in English at the 200 level or above	6
<b>Total Hours</b>	<b>18</b>

## Freshman Honors Program

Any freshman who demonstrates superior scholarship may participate, by invitation, in the freshman honors program. For details, consult the *Timetable*.

## Writing Internship Program

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 application.

To qualify, students must be enrolled full-time at UIC, have taken English 202 and one additional nonfiction writing course, and be in good academic standing. While no one is guaranteed an internship, resume development and writing sample preparation are provided by the internship coordinator to maximize each student’s opportunity.

Interested students should call the internship coordinator at (312) 996-0426.

## Teacher Education in English

### *Requirements for Teaching in Secondary Schools*

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

### Requirements for the Major

For the Bachelor of Arts, 39 semester hours. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts in the Teaching of English degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

The general requirements below also apply to transfer students who have not had equivalent courses.

	Hours
<b>I. General Requirements</b>	
Engl 101 —Understanding Literature	3
One additional course chosen from among Engl 102–121	3
<b>Total Hours</b>	<b>6</b>
	Hours
<b>Core Courses</b>	
Engl 300 —Introduction to Literary Theory and Criticism	3
<i>Engl 300 fulfills Writing-in-the-Discipline requirement.</i>	
Engl 241 —History of English Literature I: Beginnings to 1700	3
Engl 242 —History of English Literature II: 1700 to 1900	3
Engl 243 —History of American Literature: Beginnings to 1914	3
<b>Total Hours</b>	<b>12</b>
<b>Electives</b>	
Three courses at the 200 level or above to be chosen in consultation with the English education advisor.	
<b>Total Hours</b>	<b>9</b>

	Hours
<b>Required Methods Courses</b>	
<i>Recommended to be taken in sequence.</i>	
Engl 459 —Introduction to the Teaching of English in Middle and Secondary Schools	3
Engl 486 —Studies in Teaching Rhetoric and Composition	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
<b>Total Hours</b>	<b>12</b>

	Hours
<b>Collateral Courses</b>	
English 498 Educational Practice with Seminar I	6
English 499 Educational Practice with Seminar II	6
<b>Total Hours</b>	<b>12</b>

	Hours
<b>Additional Requirements for Teacher Certification</b>	
Ed 200	3
Ed 210	3
Ed 330	4
SpEd 410	3
<b>Total Hours</b>	<b>13</b>

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 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 grade point average of 4.00 (A=5.00), a cumulative grade point average of 3.5(A=5.00), and a minimum of 4.00 (A=5.00) in education courses. (For detailed information, see the *Program Guide for Teacher Education in English*, available from the secondary education coordinator in the Department of English.)

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate with the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basics Skills Test must be passed prior to applying for candidacy with the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach (beginning in Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). 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 Programs*).

## Minor in the Teaching of English

For the minor, 18 semester hours. Secondary education majors from other disciplines who want to minor in the teaching of English must complete the English minor curriculum listed above in the English program.

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 College of Education’s Office of Student Services.

## 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

For the minor, 18 semester hours. Students from other disciplines who want to minor in linguistics must complete the following courses:

	Hours
Ling 405 —Introduction to General Linguistics	3
Ling 415 —Linguistic Structures I	3
Ling 425 —Linguistic Structures II	3
9 additional hours in courses in Linguistics (exclusive of Ling 150)	9
<b>Total Hours</b>	<b>18</b>

## Distinction

- Departmental Distinction:** To be eligible for departmental distinction, a candidate must have:
1. attended UIC for three semesters;
  2. a cumulative grade point average of 4.00;
  3. completed a minimum of 21 hours at UIC in courses required for the major;
  4. a grade point average of 4.50 in courses required for the major; or a grade point average of 4.25 in courses required for the major and a grade of “A” in English 398 (Senior Honors Seminar) for two semesters.
- High Distinction:** To be eligible for high distinction, a candidate must complete all requirements for departmental distinction with a grade point average of 4.75 in courses required for the major.
- Highest Distinction:** To be eligible for highest distinction, a candidate must complete all requirements for high distinction and be recommended by the Department of English faculty.



# Gender and Women's Studies

3102 Behavioral Sciences Building

(312) 996-2441

**Director of the Program:** John D' Emilio.

**Director of Undergraduate Studies:** Jennifer Langdon-Teclaw.

## 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 transsexuals, 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.

### Required Courses for the Minor in Gender and Women's Studies

For the minor, 15 semester hours. Students from other disciplines who wish to minor in Gender and Women's Studies must complete the following:

	Hours
GWS 101 <i>or</i> GWS 201	3
GWS 102, 390	6
Two courses in GWS at the 200 level or above	6
<i>No more than 3 hours of GWS 396 may be applied to the minor.</i>	
<b>Total Hours</b>	<b>15</b>

# Germanic Studies

## 1524 University Hall

**Head of the Department:** Helga W. Kraft.

**Director of Undergraduate Studies:** Vacant.

**Undergraduate Adviser:** Vacant.

**(312) 996-3205 — Fax: (312) 413-2377**

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.

Students majoring or minoring in Germanic Studies may use their training in a variety of occupations, including teaching, translation, international marketing, banking and commerce, diplomatic service, and journalism.

## Major in Germanic Studies

For the Bachelor of Arts there are two options: Option I - Germanic Studies, 31 semester hours; or Option II - German with Business Minor, 31 semester hours, plus 15 semester hours for the Minor. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Option I - Germanic Studies

Courses for the major must be at the 200 level or above, distributed as follows:

	Hours
Ger 211	3
Ger 300	1
<i>Ger 300 fulfills the Writing-in-the-Discipline requirement.</i>	
Designated language courses (I) <sup>a</sup>	6
Designated literature/culture courses (I/c) <sup>a</sup>	12
Additional Germanic Studies courses for a minimum of 31 total hours. Program must be approved by a major adviser	9
<b>Total Hours</b>	<b>31</b>

<sup>a</sup> For area designations, see individual course listings.

### Option II - German with Business Minor

Courses for the major must be at the 200 level or above, distributed as follows:

	Hours
Ger 211, 212, 215	9
Ger 300	1
<i>Ger 300 fulfills the Writing-in-the-Discipline requirement.</i>	
Ger 310	3
Ger 311	3
Ger 401 or 408	3
Ger 450	3
Additional electives from the Department of Germanic Studies (Ger 492/493 especially recommended)	9
<b>Total Hours</b>	<b>31</b>

## Required Collateral Courses Constituting a Business Minor

	Hours
Actg 110	3
Econ 130	5
<i>Students may substitute Econ 130 with Econ 120 and Econ 121.</i>	
IDS 100	4
BA 200	3
<b>Total Hours</b>	<b>15</b>

Option II must be chosen to qualify for the Business Minor. Declaration of the major must be approved by the program director.

## Minor in Germanic Studies

At least 12 semester hours, chosen from any courses at the 200 level or above that receive credit toward the Germanic Studies B.A. major, selected with the approval of a major adviser.

## Teacher Education in German

### Requirements for Teaching in Secondary Schools

For the Bachelor of Arts, 34 semester hours, as distributed below. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Teaching Methodology:

	Hours
Two of the following courses: Ger 407, Ger448/Span448, Ger 449/Span449	6

### Language Focus:

	Hours
Three of the following courses: Ger 211, 212, 214, 215, 310, 401	9
Ger 300	1

### Culture Focus:

	Hours
Four of the following courses: Ger 217, 218, 219, 290, 311, 316, 318, 333, 370, 411, 420, 421, 422, 437, 438, 439, 450	12

### Interdisciplinary Focus:

	Hours
Two of the following courses: Ger 215, 370, 401, 450	6
<i>Courses from the Interdisciplinary grouping may be applied to the language and/or culture requirements.</i>	
Additional German courses at the 200 level or above	0-6
<b>Total Hours</b>	<b>34</b>

### Additional Requirements for Teacher Certification

	Hours
Ed 200	3
Ed 210	3
Ed 330	4
SpEd 410	3
Ger 494, 495 (Teaching Practicum)	12
<b>Total Hours</b>	<b>25</b>

In addition to specified course work in the major field, the teacher education student must fulfill certain other course requirements and must maintain a minimum departmental grade point average of 4.00 and a cumulative average of 3.50 (A=5.00), and a minimum grade point average of 4.00 in education courses. (For detailed information, see the *Program Guide for Teacher Education in German*, available from the secondary education coordinator in the Department of Germanic Studies.)

Programs must be approved by the major advisor in Germanic Studies. Certification requirements need to be approved by the Certification Officer in the Council on Teacher Education.

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate 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 Test must be passed prior to applying for candidacy in the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach (beginning in Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). 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 Programs*).

## Minor in the Teaching of German

For the minor, 12 semester hours. Secondary education majors from other disciplines who want to minor in the teaching of German must complete the following:

	Hours
Ger 211, 212	6
At least <i>two</i> additional courses at the 200 level or above.	6
<i>Students are strongly encouraged to take Ger 401, 407</i>	
<b>Total Hours</b>	<b>12</b>

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 College of Education's Office of Student Services.

## Distinction

Students who complete the major with a grade point average of 4.60 in courses applied to the major are recommended for departmental distinction. Students who qualify for distinction and complete Ger 398 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 mainly earned through the Year Abroad Program conducted either in Berlin, Germany, or in Vienna, Austria. Ger 104 level language proficiency or higher is required. Students should apply through the Germanic Studies Department.

# History

**913 University Hall**  
**Chairperson of the Department:** Eric Arnesen.  
**Director of Undergraduate Studies:** Richard S. Levy.

**(312) 996-3141 — Fax: (312) 996-6377**

History is the study of the human past. It is both a subject matter and a way of thinking - a discipline. No time, no place, no people 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 critical reading and evaluation of evidence. It sharpens 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, libraries, museums, and the law.

## Major in History

For the Bachelor of Arts, 33 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
100-level history courses	3-12
200-level history courses	9-15
300-level history courses (including Hist 300)	3-6
<i>Hist 300 fulfills the Writing-in-the-Discipline requirement.</i>	
400-level history courses	9

The above course work must be distributed as follows across fields:

**African, Asian, Middle Eastern, or Latin American:** a minimum of 6 semester hours.

**European:** a minimum of 6 semester hours in ancient, medieval, or modern European history.

**United States:** a minimum of 6 semester hours in U.S. history.

History majors, in consultation with a mentor and 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.

## Minor in History

For the minor, 15 semester hours. 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.

## Teacher Education in History

*Requirements for Teaching in Secondary Schools*

For the major, 36 semester hours as distributed below. In addition to the specific coursework, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

## Required Courses for the Teacher Education Major

	Hours
Hist 106 or Hist 114	3
<i>Hist 106 and Hist 114 fulfill hours in the field of African, Asian, Middle Eastern and Latin American history</i>	
Hist 100 or Hist 101	3
<i>Hist 100 and Hist 101 fulfill hours in the field of European history</i>	
Hist 103 or Hist 104	3
Hist 255 or Hist 257	3
<i>Hist 103, Hist 104, Hist 255, and Hist 257 fulfill hours in the field of U.S. history</i>	
Two additional 200-level history courses	6
Hist 300	3
<i>Hist 300 fulfills the writing-in-the-discipline requirement.</i>	
Hist 320	3
Hist 420	3
<i>Hist 420 has a prerequisite of 9 hours in the social sciences.</i>	
Three additional 400-level history courses	9

The above course work must be distributed as follows across three fields of history:

**African, Asian, Middle Eastern or Latin American:** a minimum of 6 semester hours.

**European:** a minimum of 6 semester hours in ancient, medieval, or modern European history.

**United States:** a minimum of 12 semester hours in U.S. history.

Teaching of History majors, in consultation with their advisor, shall designate one of the fields of history listed above as their field of concentration, consisting of at least 9 semester hours (3 courses) beyond the 100 level in that field.

To complete the Teaching of History major, students will write a research paper based on primary sources in a 400-level course of their choosing.

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

## Prerequisite and Collateral Courses for the Teacher Education Major

	Hours
Econ 120 and Econ 121	6
<i>Econ 120 and Econ 121 also apply toward the LAS social science requirement.</i>	
Students are encouraged but not required to take Geog 100, PoIS 101, Psch 100, Soc 100, and Anth 101.	



## Additional Requirements for Teacher Certification

	Hours
Ed 200	3
Ed 210	3
Ed 330	4
Sped 410	3
CIE 414	3
Hist 475 and Hist 476 ( Student Teaching)	12
<b>Total Hours</b>	<b>28</b>

In addition to specified coursework in the major field, the teacher education student must fulfill certain other requirements as well as maintain a minimum grade point average of 4.00 (A=5.00) in the major, a 4.00 (A=5.00) in required education courses and a cumulative grade point average of 3.5 (A=5.00). 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 (beginning in Fall 2004). The assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). For more information on application procedures, contact the Council on Teacher Education located in EPASW 3015 (see *College of Education Council on Teacher and Secondary Education Programs*).

## Distinction

The department offers the following two options:

1. Students who earn a 4.50 all-University grade point average and a 4.75 grade point average in all courses taken in the Department of History at UIC will be awarded departmental distinction.
2. Students who earn a 4.25 all-University grade point average and a 4.50 grade point average in all courses taken in the Department of History at UIC may choose to complete an honors thesis while enrolled in History 398. To qualify for honors, the student must earn at least a grade of "B" in History 398.

# International Studies

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**409 University Hall**  
**Chair of Committee:** Xiangming Chen.

**(312) 996-3361 — Fax: (312) 413-2511**

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## Concentration in International Studies

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The LAS International Studies Committee offers a concentration for undergraduates that results in a certificate in international studies. The concentration may be chosen from one of three areas: (1) global topics and issues; (2) area studies; (3) culture and language. The concentration, designed to complement a student's major field of study, consists of 18 semester hours of course work and must be international, comparative, and contemporary in overall course content.

### Admission Requirements

Applicants are considered on an individual basis. In order to qualify, students must have completed 9 semester hours of 100-level courses from a list of approved prerequisite courses. Most of these also receive Course Distribution credit and cultural diversity credit.

Applicants must develop a coherent program of courses at the 200, 300, and 400 levels with the advice of a member of the LAS International Studies Committee. The program must be approved by the entire committee.

### Concentration Requirements

1. Fulfillment of the prerequisite of 9 semester hours of 100-level courses from a list prepared by the LAS International Studies Committee.
2. Selection of a faculty adviser from among the members of the LAS International Studies Committee.
3. Approval by the committee of a coherent program of courses at the 200, 300, and 400 levels around a global theme or issue, world area, or culture and language. No more than 6 of the 18 semester hours required for the concentration may be taken in the student's major area of study.
4. Completion of Liberal Arts and Sciences 301, Seminar in International Studies, 3 semester hours. This senior seminar is organized by the LAS International Studies Committee.

# Jewish Studies

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**526 University Hall**

**Interim Director:** Sander L. Gilman.

**(312) 413-9018 — Fax: (312) 413-9464**

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## Minor in Jewish Studies

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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. The program fosters the exchange of diverse ideas and encourages participation by all students at all levels of study. The Minor in Jewish Studies offers students the opportunity

- to examine knowledge, issues, and values regarding the role of Jews in the modern world;
- to acquire a deeper understanding of one strand in contemporary multicultural America;
- to be in classes where students are expected to be active participants in their own learning;
- to develop critical thinking, writing and discussion skills;
- to gain a reading and speaking knowledge of modern Hebrew;
- to enjoy a sense of community with others who share an interest in Jewish issues and scholarship;
- to explore connections between academic inquiry and personal identity;
- to gain skills and abilities in preparation for careers in Jewish community work.

## Requirements for the Minor in Jewish Studies

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For the minor, 18–21 semester hours in Jewish Studies, selected from a list of courses approved by the Jewish Studies Committee, including Heb 103 and 104.

# Latin American and Latino Studies

## 1525 University Hall

**Director of the Program:** Frances R. Aparicio.

**Director of Undergraduate Studies:** Christopher Boyer.

**(312) 996-2445 — Fax: (312) 996-1796**

The program in Latin American Latino Studies seeks to provide students with an understanding of the history, cultures, and contemporary circumstances of Latin America 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 grounding in Latin American and Latino studies and then may choose a balanced Latin American and Latino emphasis or build a specialization in either area, drawing from courses in history, social sciences, and cultural studies. Students are urged to take at least one course on Mexico.

## Major in Latin American and Latino Studies

For the Bachelor of Arts, 34 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required Courses for the Major

	Hours
LALS 101	3
One from LALS 102, 103, 104	3
One from LALS 233, 234, 290	3
One from LALS 276, 277, 283, 285, 295	3
One from LALS 262, 266, 288	3
Two from LALS 105, 106, 107, 261, 265, 269, 272, 273, 274, 275, 278 (only one 100-level course permitted)	6
Two additional 200-level courses (at least one from any of the above lists)	6
LALS 200	1
<i>LALS 200 fulfills the Writing-in-the-Discipline requirement. Must be taken in conjunction with the first or second 200-level course after declaration of the major.</i>	
LALS 491 or 495 and a second 400-level LALS course	6
<b>Total Hours</b>	<b>34</b>

### Prerequisite and Collateral Courses for the Major

Span 105 or 107 or 114.

## Minor in Latin American Studies

For the minor, 18 semester hours. Students from other disciplines who want to minor in Latin American and Latino Studies must complete the following:

	Hours
One from LALS 101, 102, 103, 104, 105, 106, 107	3
Two courses at the 200 level or above on Latin America	6
Two courses at the 200 level or above on Hispanic/Latinos in the U.S.	6
One course at the 400 level	3
<b>Total Hours</b>	<b>18</b>

## Distinction

To be considered for distinction, students must obtain a 4.00 overall grade point average, plus:

- 4.25 grade point average in the major for distinction;
- 4.50 grade point average in the major for high distinction;
- 4.75 grade point average in the major for highest distinction.



# Mathematics, Statistics, and Computer Science

## 322 Science and Engineering Offices

**Head of the Department:** Jerry Bona.

**Director of Undergraduate Studies:** Richard Larson.

(312) 996-3041

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 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 and the student's choice of courses must be approved by the adviser.

## 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 major, at least 12 semester hours must be at the advanced level; for the curricula, 14 semester hours must be upper division. No transfer course below calculus may be counted toward a major in Mathematics or Teacher Education in Mathematics or toward the Curricula in Mathematics and Computer Science and 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 *Timetable*. Admission to honors sections is not restricted to mathematics majors, but consent of the department is required.

## Major in Mathematics

For the Bachelor of Science, 41 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

## Required Courses for the Major

	Hours
Math 180, 181, 210	13
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Math 215, 300, 320	7
<i>Math 300 fulfills the Writing-in-the-Discipline requirement.</i>	
Math 330	3
Math 413 and 414	6
Electives chosen from mathematics, statistics, and mathematical computer science courses numbered 200 or higher, with the exception of Math 310. At least <i>two</i> of these courses must be chosen from Math 417, 425, 430, 435, 445, 480, Stat 401, and MCS 401, 421.	12
<b>Total Hours</b>	<b>41</b>

## Required Prerequisite and Collateral Courses for the Major

A student majoring in mathematics must fulfill one of the following options.

### Option I

A minor program approved by another department.

### Option II

Phys 141, 142, 244, 245.

### Option III

16 semester hours of courses chosen from one or two fields: if two are chosen, a minimum of 5 hours must be taken in each field. Normally, at least one of the fields should be chosen from the natural sciences. Departmental approval is required before this option is chosen.

## 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/or 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.

### First Year

First Semester	Hours
Math 180 —Calculus I	5
Engl 160 —English Composition I	3
Foreign language	4
Humanities/Social Sciences	3–4

**Total Hours** **15–16**

Second Semester	Hours
Math 181 —Calculus II	5
Engl 161 —English Composition II	3
Foreign language	4
Humanities/Social Sciences	3–4

**Total Hours** **15–16**

## Second Year

First Semester	Hours
Math 210 —Calculus III	3
Math 215 —Introduction to Advanced Mathematics	3
Foreign language	4
Natural Sciences	4

**Total Hours** **14**

Second Semester	Hours
Math 320 —Linear Algebra I	3
Foreign language	4
Natural Sciences	4
Humanities/Social Sciences	3-4

**Total Hours** **14-15**

## Third Year

First Semester	Hours
Math 330 —Abstract Algebra	3
Math 413 —Analysis I	3
Humanities/Social Sciences/Natural Sciences	3-5
Humanities/Social Sciences/Natural Sciences	3-5

**Total Hours** **12-16**

Second Semester	Hours
Math 300 —Writing for Mathematics	1
Math 414 —Analysis II	3
Mathematics elective from list	3
Humanities/Social Sciences/Natural Sciences	3-5
Humanities/Social Sciences/Natural Sciences	3-5

**Total Hours** **13-17**

## Fourth Year

First Semester	Hours
Two 400-level Math courses	6
Collateral courses or electives	9

**Total Hours** **15**

Second Semester	Hours
Two 400-level Math courses	6
Collateral courses or electives	9

**Total Hours** **15**

## Minor in Mathematics

For the minor, 21 semester hours. Students from other disciplines who want to minor in mathematics must complete the following:

	Hours
Math 180, 181, 210	13
Mathematics electives at the 200, 300, or 400 level	8
<b>Total Hours</b>	<b>21</b>

## Teacher Education in Mathematics

### Requirements for Teaching in Secondary Schools

For the Bachelor of Science in the Teaching of Mathematics, 39 semester hours, as distributed below.

	Hours
Math 180, 181, 210	13
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Math 300	1
<i>Math 300 fulfills the Writing-in-the-Discipline requirement.</i>	
Math 310 or 320	3
Math 330	3
MthT 400, 401, 410, 411, 430	16
MthT 420 or Stat 401	3
<b>Total Hours</b>	<b>39</b>

	Hours
<b>Additional Requirements for Teacher Certification</b>	
Ed 200	3
Ed 210	3
SpEd 410	3
CIE 414	3
Ed 330	4
MthT 438 and 439	12
<b>Total Hours</b>	<b>28</b>

Students in the Teacher Education in Mathematics curriculum must have a grade point average of at least 3.50 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 grade point average of 3.50 and a minimum grade point average of 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 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 Test must be passed prior to applying for candidacy in the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach (beginning in Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). 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 Programs*). (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.)

## Curriculum in Mathematics and Computer Science

The curriculum is designed for students who seek careers in systems and/or mathematical programming. Students who successfully complete the program are awarded the degree of Bachelor of Science in Mathematics and Computer Science. Students in this curriculum who plan to continue into graduate

studies are urged to include among their courses as many 300- and 400-level courses as possible.

## Requirements for the Bachelor of Science in Mathematics and Computer Science

The Bachelor of Science in Mathematics and Computer Science requires a minimum of 120 semester hours as distributed below. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Engl 160, 161	6
Foreign language	0–16
<i>The equivalent of two years in a single foreign language at the college level.</i>	
Humanities	9
Social Sciences	9
Natural Sciences	3–5
<i>Five hours outside of MSCS or Phys, if taking Phys 141 &amp; 142; or 3 hours outside of MSCS or Chem, if taking Chem 112 &amp; 114 or Chem 116 &amp; 118; or 3 hours outside of MSCS or BioS, if taking BioS 100 &amp; 101.</i>	
Cultural Diversity Course (if not taken as part of Humanities/ Social Science requirement)	0–3
Math 180, 181, 210	13
MCS 260, 261, 275, 360	15
Math 300	1
<i>Math 300 fulfills the Writing-in-the-Discipline requirement.</i>	
Math 310 or 320	3
Stat 381	3
Six mathematics and mathematical computer science courses related to computer science chosen from: Math 220, 330, 410, 430, 435, 436, 480; Stat 471; any 300- or 400-level MCS course (except MCS 360)	18
Phys 141, 142; 114; or Chem 112 and 114; or Chem 116 and 118; or BioS 100 and 101	8–10
Electives to complete degree requirements of 120 hours	10–30
<b>Total Hours</b>	<b>120</b>

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/or 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.

### First Year

First Semester	Hours
Math 180 —Calculus I	5
Foreign language	4
Engl 160 —English Composition I	3
Humanities/Social Sciences/Natural Sciences	3–5
<b>Total Hours</b>	<b>15–17</b>
Second Semester	Hours
Math 181 —Calculus II	5
MCS 260 —Introduction to Computer Science	4
Foreign language	4
Engl 161 —English Composition II	3
<b>Total Hours</b>	<b>16</b>

### Second Year

First Semester	Hours
Math 210 —Calculus III	3
MCS 261 —Discrete Mathematics	3
Foreign language	4
Phys 141 —General Physics I (Mechanics) or Chem 112-General College Chemistry I or Chem 116-Honors General Chemistry I or BioS 100-Biology of Cells and Organisms	4–5
<b>Total Hours</b>	<b>14–15</b>
Second Semester	Hours
Math 310 —Applied Linear Algebra or Math 320-Linear Algebra	3
MCS 275 —Programming Tools	4
Phys 142 —General Physics II (Electricity and Magnetism) or Chem 114-General College Chemistry II or Chem 118-Honors General Chemistry II or BioS 101-Biology of Populations and Communities	4–5
Foreign language	4
<b>Total Hours</b>	<b>15–16</b>

### Third Year

First Semester	Hours
MCS 360 —Data Structures	4
One mathematics or mathematical computer science elective from list*	
Math 300 —Writing for Mathematics	1
MCS 360 —Data Structures	4
One mathematics or mathematical computer science elective from list*	3
Humanities/Social Sciences/Natural Sciences	3–5
Humanities/Social Sciences/Natural Sciences	3–5
<b>Total Hours</b>	<b>14–18</b>
Second Semester	Hours
Stat 381 —Applied Statistical Methods I	3
One mathematics or mathematical computer science elective from list*	3
Humanities/Social Sciences/Natural Sciences	3–5
Humanities/Social Sciences/Natural Sciences	3–5
<b>Total Hours</b>	<b>12–16</b>

### Fourth Year

First Semester	Hours
Two mathematics or mathematical computer science electives from the list*	6
Humanities/Social Sciences/Natural Sciences	3–5
Humanities/Social Sciences/Natural Sciences	3–5
<b>Total Hours</b>	<b>12–16</b>
Second Semester	Hours
Two mathematics or mathematical computer science electives from the list*	6
Electives	6
<b>Total Hours</b>	<b>12</b>

\*It is strongly recommended that the mathematics or mathematical computer science electives include one complete cluster from the following:

#### Algorithms and Operations Research Cluster

1. MCS 401-Computer Algorithms I
2. Stat 471-Linear and Non-Linear Programming

3. MCS 423-Graph Theory *or* MCS 481-Computational Geometry

#### **Coding, Cryptography and Number Theory Cluster**

1. MCS 425-Codes and Cryptography
2. Math 435-Foundations of Number Theory
3. Math 436-Number Theory for Applications *or* MCS 401-Computer Algorithms I

#### **Combinatorics and Theory of Computation Cluster**

1. MCS 421-Combinatorics
2. MCS 423-Graph Theory
3. MCS 441-Theory of Computation I *or* Math 430-Formal Logic I

#### **Programming Cluster**

1. MCS 320-Introduction to Symbolic Computation
2. MCS 415-Programming Language Design
3. MCS 451-Object-Oriented Programming

#### **Scientific Computation Cluster**

1. MCS 320- Introduction to Symbolic Computation
2. MCS 471- Numerical Analysis
3. Math 480-Applied Differential Equations *or* Math 410-Advanced Calculus I

## **Minor in Mathematics and Computer Science**

For the minor, 19 to 21 semester hours. Students from other disciplines who want to minor in mathematics and computer science must complete the following:

	<b>Hours</b>
Math 180; MCS 260, 261, 275	16
<i>One</i> course chosen from Math 181 or any 300- or 400-level MCS course	3–5
<b>Total Hours</b>	<b>19-21</b>

## **Distinction**

For consideration, the student must have a minimum of a 4.50 average in upper division courses in the department. The department may award high and highest distinction in recognition of outstanding academic achievement.



# Native American Studies

**1016 University Hall**  
**Director.** Brian Hosmer.

**(312) 996-5482 — Fax: (312) 996-6377**

## Minor in Native American Studies

### Requirements for the Minor

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.

#### Anthropology (Anth)

102 —Introduction to Archaeology	3
226 —Archaeology of North America	3
<i>Same as LALS 257</i>	
270 —The First Americans	3
271 —American Indian Religion and Philosophy	3
272 —North American Indians	3
275 —South American Indians	3
<i>Same as LALS 255</i>	

#### Art History (AH)

271 —Native American Art	3
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#### Native American Studies (NAST)

112 —Introduction to Native American Literatures	3
<i>Same as Engl 112</i>	
113 —Native American Studies: Sovereignty	3
471 —Studies in Native American Literatures	3
<i>Same as Engl 471</i>	

# Philosophy

**1421 University Hall**  
**Chairperson of the Department:** Bill Hart.  
**Director of Undergraduate Studies:** Neal Grossman.

**(312) 996-3022 — Fax: (312) 413-2093**

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.

## Major in Philosophy

For the Bachelor of Arts, 31 semester hours, at least 12 of which must be at the 400 level, excluding the one hour of credit earned in Phil 400. The 31 semester hours must be distributed as below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required Courses for the Major

	Hours
Three philosophy courses, one from each of three of the following five groups: 220, 420 221, 421 422 223, 423 224, 424	9
Phil 102, 210 <i>Phil 102 also fulfills the LAS Quantitative Reasoning Requirement.</i>	6
Two courses from Phil 201, 202, 203, 204, 211, 226, 227, 241, 401, 403, 404, 406, 426, 427, 441	6
One course from Phil 230, 232, 234, 430, 431, 432, 433	3
Two additional philosophy courses, at least one of which must be above the 100 level	6
Phil 400 <i>Phil 400 fulfills the Writing-in-the-Discipline requirement. Must be taken in conjunction with 400-level courses as designated in the Timetable.</i>	1
<b>Total Hours</b>	<b>31</b>

## Minor in Philosophy

For the minor, 15 semester hours, distributed as follows:

	Hours
Phil 102 <i>Phil 102 also fulfills the LAS Quantitative Reasoning Requirement.</i>	3
Two courses from Phil 220, 221, 223, 224	6
Two additional philosophy courses, at least one of which must be at the 400 level (excluding Phil 400 and independent study courses)	6
<b>Total Hours</b>	<b>15</b>

## 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 grade point average of 4.70 in the philosophy courses selected as satisfying the major with departmental distinction and a 4.50 overall grade point average are required for granting the degree.

### Major with Departmental Distinction

For the major, 34 semester hours, at least 15 of which must be at the 400 level excluding the one hour of credit earned in Phil 400. The 34 semester hours must be distributed as below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Four philosophy courses, one from each of four of the following five groups: 220, 420 221, 421 422 223, 423 224, 424	12
Either Phil 102 and 210, or 410, or 416	3–6
Two courses from Phil 201, 202, 203, 204, 211, 226, 227, 241, 401, 403, 404, 406, 426, 427, 441	6
Two courses from Phil 230, 232, 234, 430, 431, 432, 433	6
Phil 400 <i>Phil 400 fulfills the Writing-in-the-Discipline requirement. Must be taken in conjunction with 400-level courses as designated in the Timetable.</i>	1
Electives	0–3
<b>Total Hours</b>	<b>34</b>

# Physics

## 2236 Science and Engineering South

**Head of the Department:** Inder P. Batra.

**Co-Directors of Undergraduate Studies:** Cecilia Gerber, Richard Kodama.

**(312) 996-3400 — Fax: (312) 996-9016**

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.

## Major in Physics

For the Bachelor of Arts, 40 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required Courses for the Major

Note: Students pursuing the *Bachelor of Science in Physics* should see the *Curriculum in Physics* below.

	Hours
Phys 141 or Phys 105/106 with a grade of B or better and credit in Math 181	4-5
Phys 142 or Phys 107/108 with a grade of B or better and credit in Math 181	4-5
Phys 215, 244, 245	11
Phys 401, 411, 441, 461	16
Phys 481	4
<i>Phys 481 fulfills the Writing-in-the-Discipline requirement.</i>	
Phys 499	1
<i>A grade of "C" or better is required in Phys 499.</i>	
<b>Total Hours</b>	<b>40</b>

### Required Prerequisite and Collateral Courses for the Major

	Hours
Math 180, 181, 210, 220	16
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Chem 112, 114	10

## Minor in Physics

For the minor, 19 semester hours. Students from other disciplines who want to minor in physics must complete the following:

	Hours
Phys 141 or Phys 105/106 with a grade of B or better and credit in Math 181	4-5
Phys 142 or Phys 107/108 with a grade of B or better and credit in Math 181	4-5
Phys 244, 245	7
One from Phys 401, 411, 441, 461	4
<i>Phys 401 and 441 have a prerequisite of Phys 215.</i>	
<b>Total Hours</b>	<b>19</b>

## Teacher Education in Physics

*Requirements for Teaching in Secondary Schools*

### Major in Teacher Education

For the Bachelor of Science, 40 semester hours as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Science in the Teaching of Physics. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Phys 141 or Phys 105/106 with a grade of B or better and credit in Math 181	4-5
Phys 142 or Phys 107/108 with a grade of B or better and credit in Math 181	4-5
Phys 215, 244, 245	11
Phys 401, 411, 441, 461	16
Phys 481	4
<i>Phys 481 fulfills the Writing-in-the-Discipline requirement.</i>	
Phys 499	1
<i>A grade of "C" or better is required in Phys 499.</i>	
<b>Total Hours</b>	<b>40</b>

### Required Prerequisite and Collateral Courses for the Major

	Hours
Math 180, 181, 210, 220	16
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Chem 112, 114	10

In addition to specified course work in the major field, the teacher education student must fulfill certain other course requirements as well as maintain a minimum cumulative grade point average of 3.50 (A=5.00). (For detailed information, see the *Program Guide for Teacher Education in Physics*, 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 with the State of Illinois and take an examination administered by the State Board of Education. For information on

application procedures, contact the College of Education's Office of Student Services.

## Minor in the Teaching of Physics

For the minor, 19 semester hours. Secondary education majors from other disciplines who want to minor in the teaching of physics must complete the following:

	Hours
Phys 141 or Phys 105/106 with a grade of B or better and credit in Math 181	4-5
Phys 142 or Phys 107/108 with a grade of B or better and credit in Math 181	4-5
Phys 244, 245	7
One from Phys 401, 411, 441, 461	4
<i>Phys 401 and 441 have a prerequisite of Phys 215.</i>	
<b>Total Hours</b>	<b>19</b>

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 College of Education's Office of Student Services.

## Curriculum in Physics

The Bachelor of Science in Physics is awarded to students who successfully complete this curriculum in the College of Liberal Arts and Sciences.

### Required Courses for the Bachelor of Science Curriculum in Physics

For the Bachelor of Science, 120 semester hours, exclusive of physical education and basic military science, as distributed below. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Engl 160, 161	6
Foreign language (the equivalent of two years in a single language at the college level)	0-16
Humanities	9
Social Sciences	9
Chem 112, 114	10
Math 180, 181, 210, 220	16
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Phys 141 (or 105/106), 142 (or 107/108), 215, 244, 245	19
Phys 401, 411, 441	12
Phys 461; 425 or 482	8-9
Phys 481	4
<i>Phys 481 fulfills the Writing-in-the-Discipline requirement.</i>	
Phys 402 or 412	4
<i>Students planning to pursue graduate studies in physics are strongly encouraged to take both Phys 402 and 412.</i>	
Phys 499	1
<i>A grade of "C" or better is required in Phys 499.</i>	
Electives	5-22

## Recommended Plan of Study

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 omits Phys 425 or 482; and Phys 402 or 412).

*Note: 'Humanities/Social Sciences' means a course that is listed as Course Distribution Credit for social science or humanities in the LAS general requirements; usually the student takes three courses from each category.*

### First Year

First Semester	Hours
Chem 112 —General College Chemistry I	5
Engl 160 —English Composition I	3
Math 180 —Calculus I	5
Humanities/Social Sciences	3
<b>Total Hours</b>	<b>16</b>

Second Semester	Hours
Chem 114 —General College Chemistry II	5
Engl 161 —English Composition II	3
Math 181 —Calculus II	5
Phys 141 —General Physics I (Mechanics) or Phys 105/106-Introductory Physics I (Lecture/Lab)	4-5
<b>Total Hours</b>	<b>17</b>

### Second Year

First Semester	Hours
Elective	3
Math 210 —Calculus III	3
Phys 142 —General Physics II (Electricity and Magnetism) or Phys 107/108-Introductory Physics II (Lecture/Lab)	4-5
Humanities/Social Sciences	6
<b>Total Hours</b>	<b>16</b>

Second 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
<b>Total Hours</b>	<b>14</b>

### Third Year

First Semester	Hours
Foreign language	4
Phys 411 —(Quantum Mechanics I) or Phys 401	4
Phys 441 —Theoretical Mechanics	4
Phys 481 —Modern Experimental Physics I	4
<b>Total Hours</b>	<b>16</b>

Second Semester	Hours
Foreign language	4
Phys 412 —(Quantum Mechanics II)	4
Humanities/Social Sciences	3
Humanities/Social Sciences	3
<b>Total Hours</b>	<b>14</b>



## Fourth Year

First Semester	Hours
Phys 401 —(Electromagnetism I)	4
Phys 461 —Thermal and Statistical Physics	4
Foreign Language	4
Humanities/Social Sciences	3
<b>Total Hours</b>	<b>15</b>

Second Semester	Hours
Phys 402 (Electromagnetism II) or elective	4
Phys 425 or 482	4-5
Phys 499 —Survey of Physics Problems	1
Elective	4
Foreign Language	4
<b>Total Hours</b>	<b>17-18</b>

Students who are not prepared to begin Math 180 in their first semester may need to attend summer school or 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 grade point average of 4.50 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 or 392, as described below.

**High Distinction:** A minimum overall grade point average of 4.70 in upper-division physics and mathematics courses or a minimum overall grade point average of 4.50 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 grade point average of 4.80 in upper-division physics and mathematics courses or a minimum overall grade point average of 4.70 in upper-division physics and mathematics courses and high performance in Phys 391 or 392, as judged by the instructor of the course.

# Political Science

## 1102 Behavioral Sciences Building

**Head of the Department:** Lyn Ragsdale.

**Director of Undergraduate Studies:** Isaac Balbus.

**(312) 996-3105 — Fax: (312) 413-0440**

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 non-profit sector.

## Major in Political Science

For the Bachelor of Arts, a minimum of 33 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
PolS 101, 190, 200	9
Two from PolS 120, 130, 184	6
One from PolS 329, 349, 389, 399	3
<i>Completion of one of the 300-level courses above fulfills the Writing-in-the-Discipline requirement.</i>	
Five additional political science courses at the 200 level or above.	15
<i>At least two of these five courses must be at the 300 level or above</i>	
<b>Total Hours</b>	<b>33</b>

The Department of Political Science offers a Concentration in Urban Politics that is satisfied by a) completing the regular requirements for the major in political science and b) completing, among the required number of electives in the major, three courses in urban politics, including one 200-level course (PolS 210 or 211), PolS 301, and one additional course at the 300 level other than PolS 303. 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.

## Minor in Political Science

For the minor, a minimum of 21 semester hours, as distributed below.

	Hours
PolS 101, 190, 200	9
One from PolS 120, 130, 184	3
Three additional PolS courses of which at least <i>one</i> must be at the 300 level or above	9
<b>Total Hours</b>	<b>21</b>

Transfer courses in political science must have grades of “C” or better to count toward the major or minor.

## Distinction

To be considered for graduation with distinction in political science, a student must have a minimum 4.25 all-University grade point average and a minimum 4.50 grade point average 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 and defend it before that committee. The student must enroll in PolS 305 for 6 credit hours during the senior year. Both 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 grade point average.

# Psychology

## 1009 Behavioral Sciences Building

**Chairperson of the Department:** Alexander J. Rosen.

**Director of Undergraduate Studies:** Joseph P. Stokes.

**(312) 996-3036 — Fax: (312) 413-4122**

Students interested in a liberal education that emphasizes an understanding of the why's and how's of people's behavior should consider a major in psychology. Psychology is a popular major/minor and 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, business, industry, testing, education, and behavioral research. 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 potentials in their area of interest before embarking on an educational journey in psychology. There are plenty of career opportunities for students with a bachelor's degree in psychology, particularly in the areas of social work, health care and human resources; just take a look in the Sunday paper.

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 program. Both options require students to take an introductory course in psychology, as well as courses in research methods, writing and statistics.

The *general psychology option* for majors is appropriate for students who want to emphasize psychology within the context of a general liberal arts education. This option provides a strong base for the student in the curriculum in psychology. Many students choose this option when they are considering continuing their education beyond the bachelor's level.

The Department also offers the *applied psychology option* for majors. This option is designed to give a student not only a strong base in the core curriculum of psychology, but also provides the student with an opportunity to gain hands-on experience in the field. Students under the applied option take an additional three courses to fulfill their requirements; these include testing, fieldwork, and a course in interviewing, interventions or group dynamics.

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.

For more information on the Department of Psychology here at UIC, see the Web page <http://www.uic.edu/depts/psych>.

## Admission Requirements

Prior to applying to the psychology program, students must complete the following courses:

	Hours
Engl 161 —English Composition II	3
Math 118 —Mathematical Reasoning	5
Psch 100 —Introduction to Psychology	4
Psch 242 —Introduction to Research in Psychology	3

Students must earn a minimum 3.40 grade point average in these courses with no grade in any of these courses less than a "C." After students are accepted into the psychology program, they must maintain a minimum 3.00 grade point average in all psychology courses. Transfer students who plan to major in psychology should consult the Director of Undergraduate Studies concerning admission to the program.

## Major in Psychology

For the Bachelor of Arts,

Option I—General Psychology, 27 semester hours

Option II—Applied Psychology, 36 semester hours

as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Option I - General Psychology

	Hours
Psch 100, 242, 303, 343	13
<i>Psch 303 fulfills the Writing-in-the-Discipline requirement. Psch 343 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
At least <i>one</i> from 262, 350, 351, 352, 353, 360, 361, 363	3
At least <i>one</i> from 210, 231, 270, 312, 313, 320, 321, 331	2–3
Additional psychology courses for a <i>minimum</i> of 27 semester hours	8–9
<b>Total Hours</b>	<b>27</b>
<i>Students preparing for a postgraduate degree in psychology should follow the program for departmental distinction.</i>	

### Option II - Applied Psychology

	Hours
Psch 100, 242, 303, 340, 343, 385	19
<i>Psch 303 fulfills the Writing-in-the-Discipline requirement. Psch 343 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
At least <i>one</i> from 262, 350, 351, 352, 353, 360, 361, 363	3
At least <i>one</i> from 210, 231, 270, 312, 313, 320, 321, 331	2–3
At least <i>one</i> from 381, 382, 383	3
Additional psychology courses for a <i>minimum</i> of 36 semester hours	8–9
<b>Total Hours</b>	<b>36</b>
<i>Students preparing for a postgraduate degree in psychology should follow the program for departmental distinction.</i>	

## Major with Departmental Distinction

For the Bachelor of Arts, 27 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Psch 100, 242, 303, 343	13
<i>Psch 303 fulfills the Writing-in-the-Discipline requirement.</i>	
<i>Psch 343 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
At least <i>one</i> from 262, 350, 352, 360	3
At least <i>one</i> from 210, 270, 312, 320	3
At least <i>two</i> from 313, 321, 331, 351, 353, 361, 363	4–5
Additional psychology courses for a <i>minimum</i> of 27 semester hours	3–4
<b>Total Hours</b>	<b>27</b>

### Required Collateral Courses for Distinction

	Hours
Math 150 <i>or</i> 180	3 or 5
<i>Math 150 and 180 also fulfill the LAS Quantitative Reasoning Requirement.</i>	
Two semesters of laboratory courses in biological sciences, chemistry, and/or physics.	8–10

## Distinction

**Departmental Distinction:** A candidate for departmental distinction must earn a 4.50 (A=5.00) grade point average in psychology courses and a 4.40 overall grade point average. The actual awarding of distinction is made when credentials are evaluated for graduation.

**High Departmental Distinction:** The candidate for high departmental distinction must complete the requirements for departmental distinction. In addition, the student must complete an independent research project in Psch 399 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.

## Minor in Psychology

For the minor, 18 semester hours. Students from other disciplines who want to minor in psychology must complete the following:

	Hours
Psch 100, 242, 343	10
<i>Psch 343 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Additional courses at the 200 level or above for a minimum of 18 semester hours	8
<b>Total Hours</b>	<b>18</b>



# Religious Studies

**409 University Hall**

**Committee Chair:** Steven Fanning.

**(312) 996-3361 — Fax: (312) 413-2511**

## Minor in Religious Studies

The minor in Religious Studies enables students to be introduced to the academic study of religion from the perspective of the social sciences and humanities. Students are encouraged to develop their plan of study in consultation with a faculty advisor in Religious Studies. Any changes must be approved by the advisor.

### Requirements for the Minor

Students wishing to minor in Religious Studies must complete 18 semester hours, including at least 9 semester hours above the 100 level, from the list of courses approved by the Religious Studies Committee. Included in the 18 semester hours must be two of the following courses:

	Hours
<b>Required</b>	
Two course from CSt 120/RelS 120, RelS 130, and JSt 101 or JSt 102	6
Four additional courses chosen in consultation with an adviser	12
<b>Total Hours</b>	<b>18</b>

### Courses Approved for the Minor in Religious Studies

The following courses are approved for a minor in Religious Studies. Students select from this list with the approval of their advisor in Religious Studies.

#### African-American Studies (AASt)

120 —African-American Religious Traditions	3
445 —History of Islam in the African World	3
<i>Same as Hist 445</i>	

#### 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	3
<i>Same as RelS 120</i>	
150 —Catholicism in U.S. History	3
<i>Same as Hist 150 and RelS 150</i>	
294 —Topics in Catholic History	3
<i>Same as Hist 294 and RelS 294</i>	
394 —Topics in Catholic History and Culture	3
<i>Same as RelS 394</i>	

#### Classics and Mediterrean Studies (CI)

207 —Greek Temples and Festivals	3
<i>Same as Hist 201</i>	
208 —Greek Mythology	3

#### English (Engl)

115 —Understanding the Bible as Literature	3
<i>Same as JSt 115 and RelS 115</i>	
415 —Milton	3/4
<i>Same as RelS 415</i>	
478 —The Bible as Literature	3
<i>Same as JSt 478</i>	
479 —Religion and Literature	3

#### Music (Mus)

230 —Music History I ( Middle Ages and Renaissance)	3
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#### History (Hist)

150 —Catholicism in U.S. History	3
<i>Same as CSt 150 and RelS 150</i>	
256 —The American Religious Experience	3
294 —Topics in Catholic History	3
<i>Same as CSt 294 and RelS 294</i>	
495 —Topics in Religious History	3

#### Jewish Studies (JSt)

101 —Introduction to Jewish Studies: Humanities	3
102 —Introduction to Jewish Studies: Social Sciences	3
115 —Understanding the Bible as Literature	3
<i>Same as Engl 115 and RelS 115</i>	
478 —The Bible as Literature	3
<i>Same as Engl 478</i>	

#### 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	3
<i>Same as Engl 115 and JSt 115</i>	
120 —Catholic Thought: An Introduction	3
<i>Same as CSt 120</i>	
130 —Intro to Islam	3
150 —Catholicism in U.S. History	3
<i>Same as CSt 150 and Hist 150</i>	
250 —Eastern and Western Philosophies of Religion	3
255 —Religious Diversity	3
256 —Religious Experiences in American History	3
<i>Same as Hist 256</i>	
294 —Topics in Catholic History	3
<i>Same as CSt 294 and Hist 294</i>	
320 —Major Thinkers in Religious Studies	3
392 —Major Problems in Religious Studies	3
394 —Topics in Catholic History and Culture	3
<i>Same as CSt 394</i>	
415 —Milton	3/4
<i>Same as Engl 415</i>	
446 —Race, Ethnicity, and Gender in American Religion	3
<i>Same as Soc 446</i>	
495 —Topics in Religious History	3
<i>Same as Hist 495</i>	

#### Sociology (Soc)

246 —The Sociology of Religion	3
446 —Race, Ethnicity, and Gender in American Religion	3
<i>Same as RelS 446</i>	

# Slavic and Baltic Languages and Literatures

**1628 University Hall**

**Head of the Department:** Alfred Thomas.

**Director of Undergraduate Studies:** Alfred Thomas.

**(312) 996-4412 — Fax: (312) 996-0953**

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 the course distribution requirement in humanities
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, and Lithuanian studies combined with another major, provides important language skills and a solid understanding of Slavic and Baltic cultures. These are a strong asset 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.

## Major in Russian

For the Bachelor of Arts, 36 semester hours (exclusive of 100-level courses), as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required Courses for the Major

	Hours
Russ 301, 302, 321, 322	12
Slav 324	3
<i>Slav 324 fulfills the Writing-in-the-Discipline requirement.</i>	
Russ 401, 402	6
Slav 405 or Russ 410	3
Four Russian electives at the 200, 300, and 400 levels (exclusive of independent study), of which at least <i>two</i> must be at the 400 level	12
<b>Total Hours</b>	<b>36</b>

## 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 Russ 104 or demonstrate equivalent competence, and must complete 15 semester hours at the 200, 300, and 400 levels.

## Major in Polish

For the Bachelor of Arts, a minimum of 36 semester hours, (exclusive of 100-level courses), as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required Courses for the Major

	Hours
Pol 301, 302, 321, 322	12
Slav 324	3
<i>Slav 324 fulfills the Writing-in-the-Discipline requirement.</i>	
Pol 401, 402	6
Slav 405 or Pol 410	3
Four Polish electives at the 200, 300, and 400 level (exclusive of independent study), of which at least <i>two</i> must be at the 400 level	12
<b>Total Hours</b>	<b>36</b>

## 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 Pol 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 Lith 104 or demonstrate equivalent competence, and must complete 15 semester hours at the 200, 300, and 400 levels.

## Distinction

Departmental distinction requires a 4.50 (A=5.00) average in all department lower-division courses and a 4.75 average in all department upper-division courses taken.

# Sociology

## 4112 Behavioral Sciences Building

**Head of the Department:** Richard T. Campbell.

**Director of Undergraduate Studies:** James L. Norr.

**(312) 996-3005 — Fax: (312) 996-5104**

Sociology is the study of social life, including groups, organizations, communities, and societies and the social causes and consequences of human behavior. Sociology's subject matter ranges from the intimate family to the hostile mob, from crime to religion, from the divisions of race, gender, and social class to the shared beliefs of a common culture, from the sociology of work to the sociology of sport. Sociological knowledge and analysis are critical to understanding contemporary issues such as: inequality, poverty, discrimination, crime, stress, family relationships, youth, old age, urban growth and decay, and the organization and delivery of human services.

A sociology major is useful in a variety of occupational careers including: social research, law, business, public and private administration, health and medicine, and community planning. Although some employers require advanced training (master's or PhD), many others recruit persons who have earned the bachelor's degree in sociology. Sociology majors have jobs in survey research; public-opinion polling; industrial, marketing, and advertising research; and in government or nonprofit agencies that provide for the delivery of human services. Sociology graduates also work as managers or researchers in service industries such as health, insurance, banking, and real estate, as well as in sales and manufacturing organizations.

Majors in other disciplines will find sociology courses to be useful background for careers in law, medicine, public health, nursing, counseling, law enforcement, personnel management, education, and social work.

The Department of Sociology offers programs leading to the Bachelor of Arts with a Major in Sociology. A student has the option of completing a general program or applied sociology program. A Minor in Sociology is also offered.

## Options

The *general sociology option* is recommended for students who wish to concentrate in sociology as part of a liberal arts education. The *applied sociology option* is for students who want to be employed in settings where sociological methods and data analysis techniques are emphasized. It provides for the acquisition of skills necessary for sociological applications such as program evaluation, needs assessment, environmental impact assessment, and market research. It also provides a field placement opportunity where the student may gain first-hand experience in applying sociological skills.

A student must have the department's consent to qualify for the applied sociology option and the applied sociology field placement. Students should make application to the department's Committee on Applied Sociology after completion of Soc 400. Students should consult with a department adviser in advance.

## Major in Sociology

For the Bachelor of Arts, 32 semester hours. Students choose one of the options listed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Option I - General Sociology

	Hours
Soc 100 or the equivalent	3
Soc 201, 202	8
<i>Soc 201 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Seven additional sociology courses including at least:	21
(a) 9 hours at the 300 or 400 level, excluding Soc 496	
(b) <i>One</i> from Soc 400, 405, 485, 487, 488	
(c) <i>One</i> from Soc 285, 485, 487, 488	
<i>(b) Fulfills the Writing-in-the-Discipline requirement.</i>	
<i>No more than 8 hours of independent study (Soc 296, 298, 299, or 496) may be counted toward the degree. Soc 485, 487, or 488 fulfill both the Writing-in-the-Discipline requirement (b) and the theory requirement (c).</i>	

**Total Hours** **32**

### Option II - Applied Sociology

	Hours
Soc 100 or the equivalent	3
Soc 201, 202, 298, 400, 401	17
<i>Soc 201 also fulfills the LAS Quantitative Reasoning Requirement. Soc 400 fulfills the Writing-in-the-Discipline requirement.</i>	
Soc 471 or 473	3
Three additional sociology courses (only one of which may be independent study, Soc 296, 298, 299, or 496)	9

**Total Hours** **32**

## Minor in Sociology

For the minor, 15 semester hours. Students from other disciplines who want to minor in sociology must complete the following:

	Hours
Soc 100 or the equivalent	3
Two courses at the 200, 300, or 400 level	6
One course at the 300 or 400 level	3
Sociology elective	3
<b>Total Hours</b>	<b>15</b>

## Distinction

The requirements for graduation with departmental distinction are: a 4.25 grade point average in sociology courses and completion of all requirements for a major in sociology. The requirements for graduation with departmental high distinction include the requirements for distinction plus the completion of an honors thesis in Soc 299 (3 semester hours) with at least a grade of "B." The requirements for graduation with departmental highest distinction are: a 4.50 grade point average in sociology courses and the completion of an honors thesis in Soc 299 (3 semester hours) with a

grade of “A.” Qualified candidates should consult the director of undergraduate studies two or three terms in advance of graduation.

## **Special Programs in Sociology**

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### **Computer Applications**

Competence in using mainframe and personal computers for statistical analysis, editing, word processing, spreadsheets, and data file manipulation is provided in several sociology courses including Soc 201, 202, 400, 401, and 402 as well as in some others.

### **Applied Sociology Employment Opportunities**

Courses in computer applications, statistical analysis, population, and urban data plus an internship are the primary components of the applied option in sociology. This major qualifies graduates for employment in program evaluation, planning, needs and impact assessment, market research, and other fields that depend on social data analysis. (NB: With a sufficiently high level of performance, a student can continue this program in graduate school and obtain an MA in Sociology with a concentration in applied sociology with only three semesters beyond the B.A.)

### **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**

Department faculty collaborate on several joint student studies and advise students on independent research projects. When a student writes an honors thesis based on independent work, the student graduates with high or highest distinction in sociology.

## **International and Comparative Studies**

Most sociology faculty in their research or in their courses make historical or international comparisons. Students can learn about families, life change, motivations, firms and economic institutions, inequality, and politics in different societies. Sociology majors can easily take advantage of foreign study programs.

### **Preprofessional Preparation**

Course concentration in health and medicine, law and social regulation, social problems and program evaluation, industries and organizations, media and public opinion, and life cycle and social change prepare the sociology major for admission to professional and graduate programs in medicine, health professions, law, planning, journalism, business, public administration, and social welfare administration.

### **People-Oriented Service**

Sociology’s focus on cultural and social diversity and on the relations among individuals and their groups fosters knowledge and understanding for dealing with and helping people.

### **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.



# Spanish, French, Italian, and Portuguese

## 1727 University Hall

(312) 996-3236

**Head of the Department:** Christopher Maurer.

**Director of Undergraduate Studies (Spanish):** James Maharg.

**Director of Undergraduate Studies (French):** Peter Conroy.

**Director of Undergraduate Studies (Italian):** Margherita Harwell.

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. Teacher education forms an integral part of the department's offerings in Spanish and French. The study of Spanish, French, and Italian prepares the student for advanced and graduate study in literature and/or linguistics, for use in business, industry, social services, and health-related fields.

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 curriculum in French Business Studies provides special training in business French and business theory in cooperation with the College of Business Administration. This major prepares students for careers in international business and banking and related areas.

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.

## Major in Spanish

For the Bachelor of Arts, 36 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Required Courses for the Major

	Hours
Span 200	3
<i>Span 200 is not open to Spanish-speaking students, who must substitute a Spanish course at the 200, 300, or 400 level, or one of the following Latin American and Latino Studies courses: LALS 273, 274, 278, 295, 330, 493, or 495.</i>	
Span 201, 210, 211	9
Span 303, 305	6
Three courses from Span 310, 311, 314, 315, 375	9
Span 390	3
<i>Span 390 fulfills the Writing-in-the-Discipline requirement.</i>	
Two additional courses (excluding Span 448 or 449) Students should select additional courses from 200-, 300-, or 400-level Spanish courses or from the LALS courses identified above. At least one of the courses must be a 300- or 400- level Spanish course.	6
<i>Only one LALS course may count toward the major.</i>	
<b>Total Hours</b>	<b>36</b>

## Required Collateral Course for the Major

Port 240 or Ital 240. With department approval, students may substitute any course in French or Italian at the 200 level or above.

## Minor in Spanish

For the minor, 18 semester hours. Students from other disciplines who want to minor in Spanish must complete the following:

	Hours
Span 200	3
<i>Span 200 is not open to fluent Spanish speakers, who must substitute a Spanish course at the 200, 300, or 400 level, or one of the following Latin American and Latino Studies courses: LALS 273, 274, 278, 295, 330, 493, or 495.</i>	
Span 201, 210, 211	9
One course from Span 205, 230, 231	3
One course from Span 303, 305, 310, 311, 314, 315	3
<b>Total Hours</b>	<b>18</b>

## Curriculum in Spanish-Economics

Students who successfully complete the requirements of the curriculum are awarded the Bachelor of Arts in Spanish-Economics. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Requirements

	Hours
Engl 160 —English Composition I	3
Engl 161 —English Composition II	3
Humanities	9
Social Sciences	9
Natural Sciences	8
Elementary and intermediate Spanish (four semesters at the university level or the equivalent)	0–16
<i>Placement test in Spanish required of all students. The elementary and intermediate Spanish courses are either 100 or both 101 and 102; 103; 104. Bilingual students take 112, 113, and 114.</i>	
Span 200 —Conversational Spanish	3
<i>Native Spanish speakers substitute another 200- or 300-level Spanish course.</i>	
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	3
Span 260 —Meso-American Literature and Culture	3
Span 261 —South American Literature and Culture	3
Span 303 —Advanced Spanish Composition	3
Span 305 —Advanced Spanish Grammar	3
Span 320 —Advanced Business Spanish	3
One of the following two courses:	5
Math 160 —Finite Mathematics for Business (5)	
Math 165 —Calculus for Business (5)	
Econ 120 —Principles of Microeconomics	3
Econ 121 —Principles of Macroeconomics	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 must be chosen from the following list of International/Economic Development courses:	12
Econ 210 —Introduction to Third World Economics (3)	
<i>Students may not count both Econ 210 and Econ 334 toward the 120 credit hours required for the degree.</i>	
Econ 211 —Topics in Economics Taught in Spanish (3)	
Econ 327 —Comparative Economic Systems (3)	
Econ 333 —International Economics (3)	
Econ 334 —Economic Development (3)	
<i>Students may not count both Econ 210 and Econ 334 toward the 120 credit hours required for the degree.</i>	
One of the following two courses to fulfill the Writing-in-the-Discipline Requirement:	0–1
Econ 395 —Research and Writing in Economics (0)	
Free electives to bring total number of hours to at least 120	12–29
<b>Total Hours</b>	<b>120</b>
<i>All students must take a course from UIC's Cultural Diversity list, as part of either the major, the electives, or the Humanities/Social Sciences requirements.</i>	

## Teacher Education in Spanish

### Requirements for Teaching in Secondary Schools

For the Bachelor of Arts, 39 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts in the Teaching of Spanish. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Span 200	3
<i>Span 200 is not open to Heritage speakers who must substitute a Spanish course at the 200, 300, or 400 level, or one of the following Latin American and Latino Studies courses: LALS 273, 274, 278, 295, 300, 493, or 495.</i>	
Span 201, 210, 211, 230, 231	15
Span 300	3
Span 303, 305, 448, 449	12
Span 390	3
<i>Span 390 fulfills the Writing-in-the-Discipline requirement.</i>	
One additional course from Span 310, 311, 314, 315, 375	3
<b>Total Hours</b>	<b>39</b>

### Additional Requirements for Teacher Certification

Ed 200	3
Ed 210	3
ED 330	4
SpEd 410	3
Span 451, 452	12
<b>Total Hours</b>	<b>25</b>

In addition to specified course work in the major field, the teacher education student must fulfill certain other course requirements as well as maintain a minimum cumulative grade point average of 3.50 (A=5.00) in all LAS and general education requirements and a grade point average of 4.0 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 in the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach (beginning in Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). 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 Programs*).

## Minor in the Teaching of Spanish

For the minor, 21 semester hours. Secondary education majors from other disciplines who want to minor in the teaching of Spanish must complete the following.

	Hours
Span 200	3
<i>Span 200 is not open to fluent Spanish speakers who must substitute a Spanish course at the 200, 300, or 400 level, or one of the following Latin American and Latino Studies courses: LALS 273, 274, 278, 295, 330, 493, or 495.</i>	
Span 201, 210, 211, 230 or 231	12
Span 305 and one additional 300-level course	6
<b>Total Hours</b>	<b>21</b>

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 College of Education's Office of Student Services.

## Foreign Study Programs—Spanish

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

## Major in French

For the Bachelor of Arts, 36 semester hours (excluding all 100-level courses), as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Fr 200	3
Fr 201, 202	6
Fr 231, 232	6
<i>Native French speakers substitute other 200- or 300-level courses for Fr 231 and 232.</i>	
Fr 301, 302	6
Fr 333, 334	6
Fr 390	3
<i>Fr 390 fulfills the Writing-in-the-Discipline requirement.</i>	
Two 400-level electives (literature, civilization, or grammar)	6
<b>Total Hours</b>	<b>36</b>

## Minor in French

For the minor, 18 semester hours. Students from other disciplines who want to minor in French must complete 18 hours as distributed below.

	Hours
Fr 200	3
Fr 201, 202	6
Fr 231, 232	6
<i>Native French speakers substitute other 200- or 300-level courses for Fr 231 and 232.</i>	
One elective at the 300 level	3
<b>Total Hours</b>	<b>18</b>

## Curriculum in French Business Studies

Students who successfully complete the requirements of the curriculum are awarded the Bachelor of Arts in French Business Studies. For information on admission, additional graduation requirements, and academic regulations in the college, see *College of Liberal Arts and Sciences*.

### Requirements

	Hours
Engl 160, 161	6
Humanities	9
Social sciences	9
Natural sciences	13
Cultural Diversity	3
Fr 200	3
Fr 201, 202	6
Fr 231, 232	6
<i>Native French speakers substitute other 200- or 300-level courses for Fr 231 and 232.</i>	
Fr 301 or 302	3
Fr 333, 334	6
Fr 378, 379	6
Fr 390	3
<i>Fr 390 fulfills the Writing-in-the-Discipline requirement.</i>	
Actg 110, 111	6
Econ 120, 121, 220	9
Mktg 360	3
Mgmt 340, 350	6
IDS 100	4
Electives	19
<b>Total Hours</b>	<b>120</b>

In addition to those courses required for the program, no more than 24 hours may be taken in courses offered by the College of Business Administration.

Because of limitations on the number of spaces available in the program, students should declare the major in the department

office. They will be considered upon successful completion of Fr 232. Students in this program are urged to spend a year in the Illinois Program in Paris. They are encouraged to prepare for the qualifying diploma offered by the Chambre de Commerce et d'Industrie de Paris.

## Teacher Education in French

### Requirements for Teaching in Secondary Schools

For the Bachelor of Arts, 39 semester hours, as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts in the Teaching of French. For additional graduation requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Fr 200	3
Fr 201, 202	6
Fr 231, 232	6
<i>Native French speakers substitute other 200- or 300-level courses for Fr 231 and 232.</i>	
Fr 301, 302	6
Fr 333, 334	6
Fr 390	3
<i>Fr 390 fulfills the Writing-in-the-Discipline requirement.</i>	
Fr 448, 449	6
One 400-level elective (literature, civilization, or grammar)	3
<b>Total Hours</b>	<b>39</b>

### Additional Requirements for Teacher Certification

Ed 200	3
Ed 210	3
Ed 330	4
SpEd 410	3
Fr 470, 471	12
<b>Total Hours</b>	<b>25</b>

In addition to specified course work in the major field, the teacher education student must fulfill certain other course requirements as well as maintain a minimum cumulative grade point average of 3.50 (A=5.00) in all LAS and general education requirements and a grade point average of 4.0 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 in the Council on Teacher Education. The Content Area Test must be passed before the candidate is allowed to student teach (beginning Fall 2004). The Assessment of Professional Teaching must be passed prior to certification (beginning October 1, 2003). For more 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 Programs*).

## Minor in the Teaching of French

For the minor, 20 semester hours. Secondary education majors from other disciplines who want to minor in the teaching of French must complete the following:

	Hours
Fr 103, 104	8
Fr 200	3
Fr 201 <i>or</i> 202	3
Fr 231, 232	6
<i>Native French speakers substitute other 200- or 300-level courses for Fr 231 and 232.</i>	
<b>Total Hours</b>	<b>20</b>

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 College of Education's Office of Student Services.

## Foreign Study Program—French

A significant portion of the credits for the major in French may be earned through the Illinois Program in Paris. Students who wish to be considered for this program should consult the department coordinator concerning prerequisites and requirements.

## Major in Italian

For the Bachelor of Arts, 37 semester hours (exclusive of Ital 240), as distributed below. In addition to the specified course work below, the student must fulfill certain other course requirements to be awarded the Bachelor of Arts degree. For additional graduation

requirements and information on admission and academic regulations in the college, see *College of Liberal Arts and Sciences*.

	Hours
Ital 200, 201, 210	6–9
<i>Ital 200 is not open to Italian native speakers, who must substitute a course at a higher level.</i>	
Ital 303, 305, 310, 311, 411	15
Ital 370	1
<i>Ital 370 fulfills Writing-in-the-Discipline requirement.</i>	
Ital 421 <i>or</i> 422	3
Ital 450 <i>or</i> 451	3
<i>Two or three additional courses which may include Ital 205 or 230 and one or two courses at the 400 level</i>	6–9
<b>Total Hours</b>	<b>37</b>

## Minor in Italian

	Hours
Ital 200, 201, 210, 303, 305	12–15
<i>Ital 200 is not open to Italian native speakers, who must substitute a course at a higher level.</i>	
<i>Two or three additional courses at the 200, 300, or 400 level</i>	6–9
<b>Total Hours</b>	<b>21</b>

## Portuguese

Portuguese serves the Spanish major through its courses for Spanish speakers.

## Distinction

Students who earn a 4.75 grade point average 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

**Coordinator:** Emad El-Neweih.

**(312) 996-3041**

## Curriculum in Statistics and Operations Research

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.

The curriculum requires 120 semester hours, distributed as follows and subject to the restriction that, in addition to those courses required in the program, no more than 24 semester hours of credit can be taken from colleges outside of the College of Liberal Arts and Sciences.

No transfer course below calculus may be counted toward the curriculum 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.

### Required Courses for the Curriculum

	Hours
Engl 160, 161	6
Foreign language (the equivalent of two years in a single language at the college level)	0-16
Humanities	9
Social Sciences (including Econ 130)	9
Natural Sciences (excluding mathematics courses)	13
Cultural Diversity Course (if not taken as part of Humanities/Social Sciences requirement)	0-3
Math 180, 181, 210, 310; MCS 260; Stat 401	23
<i>Math 180 also fulfills the LAS Quantitative Reasoning Requirement.</i>	
Math 300	1
<i>Math 300 fulfills the Writing-in-the-Discipline requirement.</i>	
Econ 218	4
IDS 270, 355, 371	10
<i>Math 180, 181 satisfy the prerequisite for IDS 270. MCS 260 satisfies the computing prerequisite for IDS 355.</i>	
<b>Computing: (2 courses from the following):</b>	6-7
MCS 261, 275	
IDS 400, 401, 405, 410	
<i>MCS 260 satisfies the computing prerequisite for IDS 401, 405, 410.</i>	
<b>Operations Research: (2 courses from the following):</b>	6
Stat 473	
Stat 471 or IDS 435	
Stat 461 or IDS 437	
<i>Math 310 satisfies the prerequisite for IDS 435 and IDS 437.</i>	
<b>Statistics: (2 courses from the following):</b>	6
Stat 381, 411, 416, 431, 481, 494; IDS 470, 476	
Electives in the area of statistics, operations research, mathematics, and computing chosen in consultation with an adviser from the program from the following:	

Math 215, Math 220, or any 300- or higher level IDS, MCS, Math, and Stat courses	6
Electives to complete degree requirements of 120 hours	0-21

**Total Hours** **120**

No MthT courses count toward this curriculum.

For course descriptions, see Mathematics, Statistics, and Computer Science (Math, MCS, Stat) courses in the *College of Liberal Arts and Sciences* and Information and Decision Sciences (IDS) courses in the *College of Business Administration*.

### 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/or 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.

#### First Year

First Semester	Hours
Math 180 —Calculus I	5
MCS 260 —Introduction to Computer Science	4
Foreign language	4
Engl 160 —English Composition I	3

**Total Hours** **16**

#### Second Semester

Second Semester	Hours
Math 181 —Calculus II	5
IDS 270 —Business Statistics I	4
Foreign language	4
Engl 161 —English Composition II	3

**Total Hours** **16**

#### Second Year

First Semester	Hours
Math 210 —Calculus III	3
Econ 130 —Principles of Economics for Business	5
Foreign language	4
Humanities/Social Sciences/Natural Sciences	3-5

**Total Hours** **15-17**

#### Second Semester

Second Semester	Hours
IDS 371 —Business Statistics II	3
Econ 218 —Microeconomics: Theory and Business Applications	4
Foreign language	4
Humanities/Social Sciences/Natural Sciences	3-5

**Total Hours** **14-16**

#### Third Year

First Semester	Hours
IDS 355 —Operations Management I	4
Math 300 —Writing for Mathematics	1
Stat 381 —Applied Statistics	3
Computing Elective	3-4
Humanities/Social Sciences/Natural Sciences	3-5

**Total Hours** **14-17**

<b>Second Semester</b>	<b>Hours</b>
Math 310 —Applied Linear Algebra	3
Stat 401 —Probability Theory	3
Computing Elective	3–4
Humanities/Social Sciences/Natural Sciences	3–5
Humanities/Social Sciences/Natural Sciences	3–5
<b>Total Hours</b>	<b>15–20</b>

## **Fourth Year**

<b>First Semester</b>	<b>Hours</b>
Operations Research Elective	3
Statistics Elective	3
Humanities/Social Sciences/Natural Sciences	3–5
Humanities/Social Sciences/Natural Sciences	3–5

<b>Total Hours</b>	<b>12–16</b>
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<b>Second Semester</b>	<b>Hours</b>
Operations Research Elective	3
Statistics Elective	3
Humanities/Social Sciences/Natural Sciences	3–5
<i>Two</i> electives	6
<b>Total Hours</b>	<b>15–17</b>

## **Distinction**

For consideration, the student must have a minimum of a 4.50 average in upper-division courses in the department at UIC. The department may award high and highest distinction in recognition of outstanding academic achievement.

# Requirements for Preprofessional Curricula

The College of Liberal Arts and Sciences offers course work that prepares students to apply for admission to professional programs in a variety of fields at the University of Illinois.

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-Medical Laboratory Sciences*, *Pre-Medicine*, *Pre-Nursing*, *Pre-Occupational Therapy*, *Pre-Pharmacy*, *Pre-Physical Therapy*, *Pre-Social Work*, and *Pre-Veterinary Medicine*.

Admission to a preprofessional curriculum does not guarantee admission to a professional school, neither does completion of the required course work, nor attainment of the minimum grade point average. Each professional school has specific application procedures and deadlines. Students are generally responsible for meeting the requirements of the professional school in effect at the time of application. If admission requirements are changed after publication of this catalog, the school or college to which application is planned has the prerogative of specifying revised prerequisites. Therefore, in order to keep current with changes, students in preprofessional curricula are strongly encouraged to consult an LAS preprofessional adviser and an adviser in the individual program before submitting an application.

Students in the preprofessional programs 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 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.

A student who is not admitted to a professional school prior to receiving an LAS degree may continue to work for a baccalaureate at UIC by meeting all graduation requirements for the College of Liberal Arts and Sciences.

The specific programs in these curricula are described below. The programs are divided into two groups, based upon the campus at which the professional course work is to be completed.

## UIC Preprofessional Curricula

### Programs in Pre-Elementary Education, Pre-Engineering, and Pre-Social Work

Students in these curricula complete two years of preparatory course work prior to admission to the professional program in the College of Education, the College of Engineering or the Jane Addams College of Social Work. If accepted for admission, students earn the bachelor's degree from the respective professional college, not the College of Liberal Arts and Sciences.

#### Pre-Elementary Education

Freshman students who are preparing to teach on the elementary level enroll in the pre-elementary education curriculum of the College of Liberal Arts and Sciences.

For further information on elementary education, consult the section titled *College of Education*. 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 (Room 3145 ECSW, 996-4532) 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 grade point average of 3.50 (A=5.00) if a resident of Illinois. Non-residents must have a grade point average of 3.75.

#### Requirements

	Hours
Engl 160, 161	6
<b>Natural sciences</b>	
Chem 112 or 116 <sup>a</sup>	5
Math 180	5
Math 181	5
Math 210	3
Math 220	3
Phys 141, 142 <sup>a</sup>	8

<sup>a</sup> Applicants to Computer Science must have 12 hours of laboratory science (BioS, Chem, EaES, or Phys), including an 8-hour sequence.

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-Social Work

Freshman and sophomore students who are preparing to enter the field of social work enroll in the pre-social work curriculum of the College of Liberal Arts and Sciences.

To be eligible for admission to the College of Social Work, the applicant must complete the basic course requirements listed under *Admission Requirements* in the section titled *Jane Addams College of Social Work*, and have a cumulative grade point average of at least 3.50 (A=5.00). Because the College of Social Work admits only for the fall semester, students must apply for admission during the sophomore year.

Applicants should consult the College of Social Work, 4355 ECSW, for more detailed information on admission requirements and procedures.

The preprofessional course work listed below prepares the student to apply to the program in the College of Social Work.

#### Requirements

	Hours
Engl 160, 161	6
Humanities <sup>b</sup>	9
SocW 100	3
<b>Social Sciences</b>	
Hist 103 and 104	6
Soc 100	3
Psch 100	4
Two additional Social Sciences electives <sup>b</sup>	6
<b>Natural sciences</b>	
BioS 101	5
One additional Natural Sciences elective <sup>b</sup>	5
Math 118	5
Electives to complete required total of 60 hours	8
<b>Total Hours</b>	<b>60</b>

<sup>b</sup> Courses to meet the requirements in these areas must be chosen from those listed in the LAS section titled *Course Distribution Requirements*.

## Programs in the Health Sciences

### Preprofessional Curricula Generally Requiring a Bachelor's Degree

Students in these curricula ordinarily complete all requirements for the bachelor's degree at UIC, including a major field, prior to admission to the professional school. If accepted for admission, students complete the advanced degree at the professional school.

A student may choose from the following fields.

- Pre-Dentistry
- Pre-Medicine
- Pre-Occupational Therapy
- Pre-Physical Therapy

#### Pre-Dentistry

The program listed below includes the minimum course work required for admission to the College of Dentistry at the University of Illinois at Chicago.

##### Requirements

Requires 90 semester hours, exclusive of physical education and basic military science, distributed as follows:

	Hours
Engl 160, 161	6
BioS 100, 101 <sup>a</sup>	10
Chem 112, 114; <i>or</i> 116, 118 <sup>a</sup>	10
Chem 232, 233, 234 <sup>a</sup>	9
Math 121	5
Phys 105, 106, 107, 108 <sup>a</sup>	10
Electives to complete the required total of 90 hours	

*Highly recommended electives: courses offered in the areas of humanities, social sciences, and foreign language.*

<sup>a</sup> 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.

Strong preference is given to those applicants who have taken two or three of the following upper-level science courses: human anatomy, physiology, biochemistry, microbiology, cell biology, histology.

In addition to the course work listed above, applicants to the College of Dentistry must also take the Dental Admission Test (DAT) and apply for the centralized application service (AADSAS) sponsored by the American Association of Dental Schools. The DAT should be taken after completion of the minimum pre dental course requirements.

Students may obtain application request forms for the DAT and AADSAS 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 dental school application.

Although the minimum requirement for application to the College of Dentistry is three years 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 therefore encouraged to enroll in an undergraduate curriculum that will lead toward a degree. 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.

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 *Admissions Requirements of U.S. and Canadian Dental Schools*, which is published by the American Association of Dental Schools, 1625 Massachusetts Avenue, N.W., Washington, D.C. 20036.

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 (1) the student is in good standing in the college of dentistry; (2) work taken in the college of dentistry 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 residence requirement by completing at UIC at least the last 60 semester hours prior to entry into a college of dentistry; and (5) the student meets all other requirements for graduation from the College of Liberal Arts and Sciences, including a major field of specialization and a 3.00 grade point average (A=5.00) in all course work taken both at UIC and other institutions.

#### Pre-Medicine

Students who want to apply for admission to the College of Medicine at the University of Illinois at Chicago must have a bachelor's degree from an accredited college or university, with a major in any field of specialization. A premedical program must include the following minimum science preparation.

##### Requirements

	Hours
BioS 100, 101	10
Chem 112, 114; <i>or</i> 116, 118	10
Chem 232, 233, 234	9
Phys 105, 106, 107, 108	10

The UIC College of Medicine also expects that candidates will have completed the following, in addition to the courses listed above:

1. Three semesters of social science courses with an emphasis in the behavioral sciences. A minimum of two semesters must be a sequence within the same department, and one additional semester within the social sciences.
2. At least one of the following courses: *advanced level biology, biochemistry, physiology, mammalian histology, or comparative vertebrate anatomy or molecular genetics.*

In addition to the course work listed above, applicants to the College of Medicine must take the Medical College Admission Test (MCAT) and apply for centralized application service (AMCAS) sponsored by the Association of American Medical Colleges. The MCAT should be taken after completion of the minimum premedical 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 premedical program described 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.

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 (1) the student is in good standing in the college of medicine; (2) 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 residence requirement by completing at UIC at least the last 60 semester hours prior to entry into a college of medicine; and (5) the student meets all other requirements for graduation from the College of Liberal Arts and Sciences, including a major field and a 3.00 grade point average (A=5.00) in all course work taken both 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 the student to apply to the professional program in the Department of Occupational Therapy after completion of the undergraduate degree. There is also an option for early acceptance of sophomore and junior students who complete their undergraduate degrees at UIC. Students should contact [OTDept@uic.edu](mailto:OTDept@uic.edu) or (312) 413-0124 for further information.

### Requirements

Core requirements follow (to be completed as part of the undergraduate degree program in LAS). These courses must be completed with a grade of "C" or better.

	Hours
<b>Natural Sciences</b>	
BioS 100	5
Kine 251 <sup>a</sup> , 252 <sup>a</sup>	10
<i>Kine 251/252 sequence begins fall semester only.</i>	
<b>Social Sciences</b>	
Psch 100, 242	7
Psch 270 <sup>a</sup> , 320 <sup>a</sup> ,	6
One course in anthropology or sociology	3
<b>Total Hours</b>	<b>31</b>

<sup>a</sup> These courses must be taken within five years of admission to the program.

Other minimum admissions requirements include CPR (cardiopulmonary resuscitation) certification with Health Providers Status, 4.00 grade point average (A=5.00) and a Graduate Record Examination score of at least 1000 (verbal and quantitative).

Students must apply for admission to the program approximately one year before 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 health care 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.

Core requirements (to be completed as part of the undergraduate degree program in LAS):

### Requirements

	Hours
BioS 100, 101	10
Chem 112, 114; or 116, 118	10
Math 180	5
Phys 105, 106, 107, 108	10
Psch 100, 242	7
<b>Total Hours</b>	<b>42</b>

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.

The minimum grade point average for application to the program in physical therapy is 3.50 (A=5.00) nonscience average and a 3.50 science average. The competitive grade point average, however, is considerably above this level.

The Graduate Record Examination is required for admission to physical therapy and the scores must be less than five years old. A GRE-W Writing Assessment score is also required.

Students must apply for admission to the program approximately one year before enrollment.

### Preprofessional Curricula Not Requiring a Bachelor's Degree

Students interested in pursuing any of the preprofessional health curricula listed below must fulfill the following requirements before admission to the preprofessional program:

- 12 semester hours, excluding non-LAS courses, to include one semester of English composition and one required course in science or mathematics.
- 3.50 cumulative grade point average with no grade lower than C.

Qualified students may complete a pre-health curriculum designation form at the reception desk in the College of Liberal Arts and Sciences, 309 University Hall.

Students in these curricula complete preparatory course work prior to admission to the professional school. If accepted for admission, students earn the degree from the professional school, not the College of Liberal Arts and Sciences.

A student may choose from the following fields.

- Pre-Health Information Management
- Pre-Human Nutrition
- Pre-Medical Laboratory Sciences<sup>1</sup>
- Pre-Nursing
- Pre-Pharmacy

<sup>1</sup> Until further notice, no new students will be admitted to the Medical Laboratory Sciences Program.

### 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 health care delivery system. They process patient data, design and implement systems that will accurately record this information and make it readily retrievable, construct medical record forms and data abstracts, and develop and maintain quality assurance programs to assist the health care team in monitoring all health care 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, computers, and organization and management. Course

work is integrated with clinical practice experience in the medical record departments of the University of Illinois Hospital and other 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 as listed below prepares the student to apply to the professional program.

### Requirements

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

	Hours
Engl 160, 161	6
<b>Natural Sciences</b>	
BioS 100	5
Natural Science elective	5
Kine 251 and 252	10
<i>Kine 251/252 sequence begins fall semester only.</i>	
Math 118 or 121	5
<b>Social Sciences</b>	
Psch 100, 242	7
One additional Social Science elective <sup>a</sup>	3
Humanities <sup>a</sup>	6
<b>Computer science</b>	
IDS 100	4
Cultural diversity course	3
Electives to complete the required total of 60 hours	6
<b>Total Hours</b>	<b>60</b>

<sup>a</sup> Courses to meet the requirements in these areas must be chosen from those listed in the LAS section titled Course Distribution Requirements.

The minimum grade point average for application to the program in health information management is 3.00 (A=5.00). A student admitted to the program completes the third and fourth years in the professional program. The baccalaureate is awarded by the professional college.

Students may apply for admission to the program approximately one year before enrollment.

### Pre-Human Nutrition

The primary role of the dietitian is to provide nutritional care to people in health and disease throughout the life cycle, in accordance with their nutritional requirements and food habits. Therefore, a dietitian must be knowledgeable in the biological and physical sciences, psychology, sociology, education, and management, and must have expertise in food habits, energy and nutrient needs, food product composition, and the identification of nutrient density. The dietitian counsels clients and works with members of the health care team in providing nutritional care. The dietitian utilizes his or her expertise when working with clients, community agencies, and food service systems.

The Coordinated Program (CP) in the Department of Human Nutrition prepares graduates for entry-level positions as dietitians in a variety of employment settings such as health care institutions, government organizations, business, industry, and community health agencies. With experience or advanced education, opportunities can be found in research, education, or private practice.

The preprofessional course work listed below prepares the student to apply to the professional program in dietetics.

## Requirements

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

	Hours
Engl 160, 161	6
Comm 100	3
<b>Natural Sciences</b>	
BioS 100, 101, 350, 351	15
<i>BioS 101 is not required for admission to the professional program, but it is a prerequisite for other required preprofessional course work.</i>	
Chem 112, 130	10
Math 121	5
<b>Social Sciences</b>	
Psch 100	4
Soc 100, 201	6
<b>Humanities</b>	
Humanities	6
<i>Courses to meet the requirements in this area must be chosen from those listed in the LAS section titled Course Distribution Requirements.</i>	
HN 196	2
HN 110	2
Electives to complete the required total of 60 hours	
<b>Total Hours</b>	<b>60</b>

The minimum grade point average for application to the program in human nutrition is 3.50 (A=5.00). A student admitted to the program completes the third and fourth years in the professional program. The baccalaureate is awarded by the professional college.

Students should contact the Department of Human Nutrition for admission deadlines.

## Pre-Medical Laboratory Sciences<sup>a</sup>

Medical Laboratory Sciences, or medical technology, is a profession that combines the challenges and rewards of medicine and science. The medical laboratory scientist applies knowledge of biological and chemical sciences to the analysis of biological specimens to produce qualitative, quantitative, and descriptive data that is used in the diagnosis, treatment, and prevention of disease.

Medical laboratory scientists also ensure the dissemination of the data through laboratory and hospital information systems, advise other health care workers on the use of the data, and supervise other laboratory personnel. They can also apply their technical skills in other areas such as research, biotechnology, and forensics, as well as state and national health care organizations.

Medical laboratory scientists are trained in clinical microbiology, hematology, clinical chemistry, immunology, immunohematology, molecular biology, and many choose to specialize in one of these areas upon graduation.

The preprofessional course work listed below prepares the student to apply to the professional program in medical laboratory sciences.

## Requirements

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

	Hours
Engl 160, 161	6
<b>Natural Sciences</b>	
BioS 100, 101, 350, 351	15
Chem 112, 114; or 116, 118	10
Chem 130; or 232, 233	5
Kine 251 and 252	10
<i>Kine 251/252 sequence begins fall semester only.</i>	
Math 118 or higher level	5
<i>Students must take the UIC mathematics placement test; those who are placed into courses above this level are still required to complete one mathematics elective.</i>	
Social Sciences <sup>b</sup>	3
Humanities <sup>b</sup>	6
Ling 201	3
Psch 100, 242	7
Electives to complete the required minimum total of 60 hours	
<b>Total Hours</b>	<b>60</b>

The minimum grade point average for application to the program in the field of medical laboratory sciences is 3.00 cumulative average and a 3.00 science average (A=5.00). A student admitted to the program completes the third and fourth years in the professional program. The baccalaureate is awarded by the professional college.

Students may apply for admission approximately one year before enrollment.

<sup>a</sup> Until further notice, no new students will be admitted to the Medical Laboratory Sciences Program.

<sup>b</sup> Courses to meet the requirements in these areas must be chosen from those listed in the LAS section titled Course Distribution Requirements. All students must take one course in Cultural Diversity. This requirement may be met by selecting a Social Sciences or Humanities CDC course that also fulfills the Cultural Diversity requirement as indicated on the Cultural Diversity List in the College of Liberal Arts and Sciences.

## 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 function in collegial and independent relationships with other members of the health care team.

The preprofessional course work listed below prepares the student to apply to the professional program in nursing in the College of Nursing.

## Requirements

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

	Hours
Engl 160, 161	6
<b>Natural Sciences</b>	
BioS 100	5
Chem 112 or 114; 130	10
BioS 350 or MIm 326	3
Kine 251 and 252	10
<i>Kine 251/252 sequence begins fall semester only.</i>	
HN 196	2
<b>Social Sciences</b>	
Social Sciences <sup>a</sup>	6
<i>Chosen from two different fields.</i>	
<b>Humanities</b>	
Humanities <sup>a</sup>	6
<i>Chosen from two different fields.</i>	
NuSc 250	3
Cultural Diversity course	3
Upper division elective in natural sciences, humanities, or social sciences	3
<b>Total Hours</b>	<b>57</b>

<sup>a</sup> Courses to meet the requirements in these areas must be chosen from those listed in the LAS section titled *Course Distribution Requirements*. All students must take one course in Cultural Diversity. This requirement may be met by selecting a Social Sciences or Humanities CDC course that also fulfills the Cultural Diversity requirement as indicated on the Cultural Diversity List in the College of Liberal Arts and Sciences.

The minimum grade point average for application to the program in nursing is 3.50 (A=5.00). A minimum grade of "C" must be earned in each pre-nursing course. A student admitted to the program completes the third and fourth years in the College of Nursing, which awards the baccalaureate (BSN).

The College of Nursing accepts applications for the fall semester only. Applications are available beginning July 1. The priority application deadline is October 15, and the final application deadline is February 1.

## 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 professional program in pharmacy in the College of Pharmacy. It generally requires a minimum of two full-time academic years of study.

## Requirements

	Hours
Engl 160, 161	6
Comm 100	3
<b>Natural Sciences</b>	
<i>If these courses have not been taken within five years of admission, prior approval must be granted by the College of Pharmacy admissions counselor.</i>	
BioS 100, 101	10
Kine 251 and 252	10
<i>Kine 251/252 sequence begins in the fall semester only.</i>	
Chem 112, 114; or 116, 118	10
Chem 232, 233, 234	9
Math 180	5
Phys 105, 106, 107, 108	10
Electives	9
<i>At least one course (worth 3 hours) must be chosen from each of the following areas including one course that meets the cultural diversity requirement: social or behavioral sciences, economics, and humanities. Students may be admitted to the College of Pharmacy with deficiencies in general education electives. This requirement must be completed prior to the beginning of the second professional year.</i>	
<b>Total Hours</b>	<b>72</b>

Pre-pharmacy students must take the Pharmacy College Admission Test (PCAT) prior to applying to the College of Pharmacy. This test should be taken no later than February of the year of application to the College of Pharmacy. Application request forms for the PCAT are available from the Psychological Testing Corporation (1-800-622-3231) or <http://www.hbtpc.com/pse/g-contents0.htm>. They are also available from the College of Pharmacy, Office of Student Affairs, Room 154, 833 S. Wood St.

The minimum grade point average for application to the program in pharmacy is 3.50 (A= 5.00). A student admitted to the program completes the four-year professional program in the College of Pharmacy, which awards the Doctor of Pharmacy degree (PharmD).

Students must apply for admission to the College of Pharmacy approximately one year before enrollment.

## Programs in Pre-Law and Pre-Veterinary Medicine

Students in these curricula ordinarily complete all requirements for the bachelor's degree at UIC, including a major field, before applying for admission to one of the professional schools at the Urbana campus. If accepted for admission, students complete the advanced degree in the professional school.

### Pre-Law

#### Accelerated Degree Program

The University of Illinois at Chicago and the Chicago-Kent of Law offer a six-year program that leads to the bachelor's degree from UIC and the doctor of jurisprudence 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 a pre-law advisor in the College of Liberal Arts and Sciences. Students apply before the beginning of the junior year. Admission to the program is highly competitive and among other requirements applicants must have a cumulative grade point average of 4.25 (A=5.00) and have completed 60 semester hours. Students interested in this program must consult with an LAS pre-law advisor during the sophomore year.



Students who want to apply for admission to the College of Law at the University of Illinois at Urbana-Champaign must have a bachelor's degree from an accredited college or university, with a major in any field of specialization. In addition, applicants must take the Law School Admission Test (LSAT) and apply for the specialized data assembly service (LSDAS) sponsored by the Law School Admissions Council. The LSAT is generally taken during the senior year. Students may obtain information about request the LSAT and LSDAS by scheduling an appointment with an LAS pre-law adviser at the Liberal Arts and Sciences Reception Desk, 309 University Hall.

The minimum grade point average for application to the College of Law at the University of Illinois at Urbana-Champaign is 3.50 (A=5.00). The competitive average for admission, however, is considerably above this level at the present time. The Urbana campus admits students only for the fall semester.

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. To receive a degree from the College of Liberal Arts and Sciences, pre-law students must complete all requirements for graduation, including a major field.

*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, Pennsylvania 18940-0977.

## Pre-Veterinary Medicine

The program listed below includes the minimum course work required for admission to the College of Veterinary Medicine at the University of Illinois at Urbana-Champaign.

### Requirements

A minimum of 60 semester hours, exclusive of physical education and basic military science, distributed as follows:

	Hours
Engl 160, 161	6
<b>Natural Sciences</b>	
BioS 100, 101	10
Upper-level biology	12
Chem 112, 114; <i>or</i> 116, 118	10
Chem 232, 233, 234	9
Chem 452	4
Math 121 (Math 180 recommended)	5–10
Phys 105, 106, 107, 108	10
Humanities <sup>a</sup>	6
Social Sciences <sup>a</sup>	6

<sup>a</sup> Courses to meet the requirements in these areas must be chosen from those listed in the LAS section titled *Course Distribution Requirements*.

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 grade point average for admission to the UIUC College of Veterinary Medicine is 3.50 (A=5.00). The competitive average, however, is considerably above this level at the present time.

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. To obtain a degree in the College of Liberal Arts and Sciences, pre-veterinary students must satisfy all degree requirements of the college, including a major field.

# Liberal Arts and Sciences Courses

## African-American Studies (AASt)

- 100 Introduction to African-American Studies. 3 Hours.** Credit is not given for African-American Studies 100 if the student has credit in any course from among African-American Studies 101, 102, 105, or 106. 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.
- 103 African-American Politics and Culture. 3 Hours.** Same as Political Science 112. A survey of African-American Political and cultural activism from the Black Convention Movement of the 1830s to contemporary times.
- 110 Introduction to African-American Literature, 1760-1910. 3 Hours.** Same as English 118. Comprehensive survey, 1760-1910, from earliest folk roots to formal literary tradition.
- 111 Introduction to African-American Literature since 1910. 3 Hours.** Same as English 119. Comprehensive survey of African-American literature from 1910 to the present.
- 120 African-American Religious Traditions. 3 Hours.** Introduction to the significance of religion and religious institutions in African-American history. Examination of Christian and non-Christian traditions, mainstream and sectarian.
- 141 African Civilization. 3 Hours.** Same as History 141. Introduction to history and historical methods through the study of African history.
- 191 African and Caribbean Francophone Literature in Translation. 3 Hours.** Same as French 191. An introduction to the Francophone literature of Africa and the Caribbean and to its historical and cultural contexts.
- 200 History of Race Relations in America. 3 Hours.** Same as History 251 and Latin American and Latino Studies 251. An examination of American racial thought and racial discrimination to determine how the content and function of both have changed over time.
- 201 The Psychology of African-Americans. 3 Hours.** Same as Psychology 201. 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. Prerequisite: Psch 100 or consent of the instructor.
- 202 African-American Behavioral Patterns. 3 Hours.** Same as Psychology 202. 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. Prerequisite: Psch 100 or consent of the instructor. Credit in AASt 201 is recommended.
- 203 The African-American Family in the United States. 3 Hours.** Same as Sociology 203. Examination of the structure and functioning of the African-American family. Historical and contemporary analyses. Prerequisite: AASt 100 or Soc 100 or consent of the instructor.

- 205 Research Methods in African-American Literature and Culture. 3 Hours.** Theory and practice in study of African-American literature and culture; the principle scholarship on the intersection of history and aesthetics; exercises in close reading and historical research. Prerequisite: AASt 100.
- 206 Research Methods in African-American Studies: Social Science. 3 Hours.** Introduction to research methods with emphasis on using social science research designs, data generation techniques, and other procedures in studying the African-American experience. Prerequisite: AASt 100 or consent of the instructor.
- 210 The Art and Archaeology of Ancient Egypt. 3 Hours.** Same as Archaeological Studies 210 and Art History 210. Ancient Egypt from 6000 BC to 400 AD. Architecture, sculpture, and painting in their social and historical contexts. Prerequisite: Sophomore standing.
- 212 Techniques of African-American Creative Writing. 3 Hours.** 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: AASt 100 or Engl 160.
- 241 Pre-Colonial Africa. 3 Hours.** Same as History 241. Development of human civilization; the rise of kingdoms and territorial states; migration of peoples; the spread and impact of Islam; west African trading networks.
- 242 Modern Africa. 3 Hours.** Same as History 242. The effect of European partition and colonialism; African military and political resistance; economic imperialism; the rise of nationalism; the problems of independence.
- 245 Politics and Government of Africa. 3 Hours.** Same as Political Science 245. Contemporary political systems of selected African countries with emphasis on political leadership, nationalism, ideological trends, and economic development. Prerequisite: PolS 130 or PolS 190 or AASt 100 or consent of the instructor.
- 247 African-American History to 1877. 3 Hours.** Same as History 247. Survey of major social, economic, political, and cultural developments and trends in the history of African-Americans from the rise of the Atlantic Slave Trade to Reconstruction's end. Prerequisite: One course in African-American studies or history, or consent of the instructor.
- 248 African-American History since 1877. 3 Hours.** Same as History 248. The major social, economic, political, and intellectual developments in African-American history since Reconstruction. Topics include Jim Crow, black leadership, migration and urbanization, social and political movements, civil rights and nationalism. Prerequisite: One course in African-American studies or history, or consent of the instructor.
- 250 Comparative Black Literatures. 3 Hours.** Same as English 260. The "black" experience through the study and analysis of selected works of African-American, African-Caribbean, and African literature and related criticism. Prerequisite: Six hours in African-American studies or English.

- 255 Courts, Color, and the Constitution. 3 Hours.** Same as Political Science 255. The use of the courts by Blacks and other minority-Americans to attain equality under federal constitutional standards. Prerequisites: PolS 101, or 103, or 190, or consent of the instructor.
- 257 Constitutional Law: Women, Gender and Privacy. 3 Hours.** Same as Gender and Women's Studies 257 and Political Science 257. 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. Prerequisite: 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.
- 264 African-American Art. 3 Hours.** Same as Art History 264. Interdisciplinary survey of the artistic production of African-American artists from the nineteenth century to the present.
- 270 African Art. 3 Hours.** Same as Art History 270. Survey of the arts of the major tribal cultures of sub-Saharan Africa. Prerequisite: 3 hours of art history at the 100-level or consent of the instructor.
- 274 Caribbean Cultural and Literary Studies. 3 Hours.** Same as English 274 and Latin American and Latino Studies 274. An integrated view of Spanish, French, English, and Dutch Caribbean culture and literature placing similarities and differences in historical, political, and ideological contexts.
- 294 Topics in African-American Studies. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Selected topics. Prerequisite: Junior standing or consent of the instructor.
- 306 Black Politics in the United States. 3 Hours.** Same as Political Science 311. Historical analysis of Black electoral politics in the U.S., including traditional political party participation and movement politics. Prerequisite: Three courses in political science, history or sociology, or consent of the instructor.
- 340 Advanced Seminar in African-American Studies: Social Science. 3 Hours.** Theoretical and critical examination of key topics in African-American studies. Historical and contemporary issues are analyzed from multidisciplinary frameworks within the social sciences. Prerequisites: Junior standing and declared major in African-American studies, or consent of the instructor.
- 350 The Harlem Renaissance. 3 Hours.** Same as English 350. The intellectual, cultural, and artistic expressions among African-Americans from 1912 to 1933, with an emphasis on the literary texts and social history. Prerequisite: Six hours in African-American studies or English literature, or consent of the instructor.
- 351 Topics in Black Art and Literature. 3 Hours.** Same as English 351. Study of art and/or literature in the context of the African diaspora. Topics vary. Prerequisite: AASt 100 or 110 or 111 or consent of the instructor.

- 355 Studies in African-American Poetry. 3 Hours.** Same as English 355. Development of African-American poetry from Phyllis Wheatley to Rita Dove. Emphasis on major poets: Baraka, Brooks, Dove, Dunbar, Hayden, Hughes, Tolson, and Wheatley. Prerequisite: AAST 110 or 111 or Engl 103.
- 357 Studies in African-American Literary and Cultural Genres. 3 Hours.** Same as English 357. Consideration of the development of specific African-American literary, musical, artistic genres with specific attention paid to historical, aesthetic, political, and social context. Topics vary. Prerequisite: Junior standing or consent of the instructor.
- 360 Advanced Seminar in African-American Literature. 3 Hours.** Same as English 360. Does not satisfy the Writing-in-the-Discipline requirement for English majors. Advanced study of theoretical approaches to African-American literature, with an emphasis on major paradigms developed to explain literary expression within the context of African-American culture. Prerequisite: Junior standing or consent of the instructor.
- 371 African-Americans and the Criminal Justice System. 3 Hours.** Same as Criminal Justice 343 and Sociology 371. Examination of the status of African-Americans as offenders, victims, and personnel within the criminal justice system. Prerequisite: 9 hours of upper-division African-American studies, criminal justice, or sociology; or consent of the instructor.
- 398 Independent Study: Special Topics. 3 Hours.** Selected topics for individual research. May be repeated for a maximum of 9 hours of credit. Prerequisites: Consent of the instructor and approval by the Head of the Department of African-American studies.
- 410 Seminar in Black Child Development. 3 Hours.** Race, class and cultural theories of black child development. Examination of socialization process and developmental outcomes, with particular attention to social attitudes and behaviors. Prerequisite: AAST 201 or Psch 100 or consent of the instructor.
- 441 Topics in African History. 3 Hours.** Same as History 441. May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of African history, African-American studies, or consent of the instructor.
- 445 History of Islam in the African World. 3 Hours.** Same as History 445. 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. Prerequisite: Consent of the instructor.
- 470 Reading Black Women Writing. 3 Hours.** Same as English 480 and Gender and Women's Studies 470. Examines inscriptions of race, gender, class, and sexuality as they shape the literary and critical practices of nineteenth- and twentieth-century black women writers. Prerequisite: AAST 110 or 111 or 250 or consent of the instructor.
- 481 Topics in African-American History. 3 Hours.** Same as History 485. May be repeated for credit. Students may register for more than one section per term if topic is different for each registration. African-American history for students with significant background in the field. Topics vary. Prerequisite: AAST 247 or 248 or Hist 104 or consent of the instructor.
- 490 Topics in African-American Literature. 3 Hours.** Same as English 473. May be repeated for credit. Students may register for more than one section per term. African-American literature and culture for students with significant background in the field. Topics vary. Prerequisite: AAST 110 or 111 or 250 or consent of the instructor.
- 492 Topics in Social Science Research. 3 Hours.** May be repeated for credit. Students may register for more than one section per term if topic is different for each registration. Inclusive examination of a selected specialized topic based on instructor's field. Topics are drawn from research in political science, psychology, sociology, and history. Prerequisite: AAST 100 or consent of the instructor.
- 496 Topics in Race, Ethnic, and Minority History. 3 Hours.** Same as History 496. May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.
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- ### Anthropology (Anth)
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- 100 The Human Adventure. 3 Hours.** No credit toward the anthropology major for students with previous courses in anthropology. A survey of approaches to the study of the origins and the cultural and biological development of humankind.
- 101 World Cultures: Introduction to Social Anthropology. 3 Hours.** Concepts and methods in the study of world cultures from a comparative anthropological perspective, emphasizing selected non-U.S. societies, cultures, and ethnographic regions.
- 102 Introduction to Archaeology. 3 Hours.** General survey of world archaeology with special reference to origins and development of Old World cultures.
- 103 Monkeys, Apes, and Humans. 4 Hours.** Credit is not given for Anthropology 103 if the student has credit in Anthropology 105 or Natural Sciences 105. The anatomy, ecology, and behavior of nonhuman primates as a basis for reconstructing the paleobiology of early humans.
- 105 Human Evolution. 5 Hours.** Human evolution and variability; methods of assessing fossil evidence for evolutionary change; principles of biological adaptation.
- 110 Cybernetic Systems. 3 Hours.** Nontechnical introduction to the major ideas of cybernetics and their applications to learning and evolution, communication and culture, sanity, machines, and what context means.
- 200 Anthropological Theory. 3 Hours.** Theoretical approaches to the study of culture and society in terms of structure, function, and process. Prerequisite: Anth 101 or consent of the instructor.
- 210 Cybernetic Thinking. 3 Hours.** The logic of cybernetic concepts: stability, change, hierarchy, coupling, feedback, variety, regulation, and their applications to living, social, and cultural systems.
- 211 Visual Anthropology. 3 Hours.** History and criticism of documentary films on anthropology. Discussion of the applications of film in field research and viewing of representative examples. Prerequisite: 3 hours in social sciences or consent of the instructor.
- 212 Folklore. 3 Hours.** Surveying the major folklore genres: proverbs, riddles, games, folksong, and the folk tale, their forms, and how people use them.
- 214 Sex and Gender in World Cultures. 3 Hours.** Same as Gender and Women's Studies 214. Comparative study of sex roles, gender identity, and male-female relationships, emphasizing biological, ecological, ideological, and symbolic factors associated with cross-cultural variability. Prerequisite: 3 hours of social sciences or consent of the instructor.
- 215 Non-Western Religions. 3 Hours.** 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.
- 220 Method and Theory in Archaeology. 3 Hours.** 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: Anth 102 or consent of the instructor.
- 221 Old World Archaeology I. 3 Hours.** The evolution of the Old World hunting-gathering cultures to the end of the Pleistocene Age. Prerequisite: Anth 102 or consent of the instructor.
- 222 Old World Archaeology II. 3 Hours.** Introduction to the prehistoric cultures of the Old World, from final Pleistocene times; the shift from hunting-gathering to agriculture is analyzed. Prerequisites: Anth 102 and 221.
- 226 Archaeology of North America. 3 Hours.** Same as Latin American and Latino Studies 257. Introduction to the prehistoric cultures of North America from earliest times until the arrival of Europeans. Prerequisite: Anth 102 or consent of the instructor.
- 227 Ancient Civilizations of Mexico and Central America. 3 Hours.** Same as Geography 207 and Latin American and Latino Studies 258. 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. Prerequisite: Anth 102 or sophomore standing or consent of the instructor.
- 228 Ancient Civilizations of South America. 3 Hours.** Same as Latin American and Latino Studies 259. Analysis, interpretations, and explanations of the developmental process and social institutions of indigenous civilizations of South America. Emphasis on the origins of sedentary life, the evolution of cities, and the dynamics of the native Andean states. Prerequisite: Anth 102 or sophomore standing or consent of the instructor.
- 231 Fossil Humans. 4 Hours.** Same as Biological Sciences 210. 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.
- 234 Modern Human Variation and Adaptation. 4 Hours.** A broad overview of genetic variation and biosocial adaptation in contemporary human groups. Prerequisite: Grade of C or better in Anth 103 or Grade of C or better in Anth 105.
- 235 Biological Bases and Evolution of Human Behavior. 4 Hours.** Same as Biological Sciences 211. Comparative behavior of human and nonhuman primates; biological bases of primate behavior in terms of general evolutionary trends.



- 237 The Human Skeleton. 4 Hours.** Same as Biological Sciences 212. Examination of the human skeleton, emphasizing bone identification and the functional anatomy of locomotion and dentition.
- 241 Culture and Personality. 3 Hours.** 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. Prerequisites: Anth 101, an introductory course in psychology or consent of the instructor.
- 269 Art and Archaeology of South America. 3 Hours.** Same as Art History 269. Credit is not given for Anthropology 269 if the student has credit in Anthropology 228 or Art History 273 or Latin American and Latino Studies 239 or Latin American and Latino Studies 259. Survey of Andean prehistory and the development of complex societies from pre-Chavin through Inca as reflected in art, architecture, and other material culture. Prerequisites: Anth 100 or Anth 102 or AH 100 or AH 110 or AH 111 and sophomore standing or above; or consent of the instructor.
- 270 The First Americans. 3 Hours.** An introduction to the aboriginal Indian cultures of native North America, their ecological adaptations, social organization, and world views.
- 271 American Indian Religion and Philosophy. 3 Hours.** 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.
- 272 North American Indians. 3 Hours.** Survey of the indigenous culture of North America as viewed through the generations by early explorers, missionaries, nineteenth century ethnologists, and contemporary social scientists.
- 273 Ethnography of Southeast Asia. 3 Hours.** Survey of selected cultures of mainland Southeast Asia, with emphasis on cultural ecology, tribal formation, and nationalism.
- 274 Ethnography of Africa. 3 Hours.** A survey of the culture areas of sub-Saharan Africa and the study of societies typical of each area.
- 275 South American Indians. 3 Hours.** Same as Latin American and Latino Studies 255. Social and cultural practices of the native peoples of the Amazonian tropical forest and the Andes.
- 276 Pacific Island Cultures. 3 Hours.** Polynesian, Micronesian, and Melanesian island societies; their ecosystems and cultures, emphasizing their unity and diversity.
- 277 Ethnography of Meso-America. 3 Hours.** Same as Latin American and Latino Studies 270. Survey of the contemporary indigenous cultures of Meso-America, studied against their pre-conquest history and in their development since the Spanish Conquest.
- 278 Brazil: A Multi-Ethnic Society. 3 Hours.** Same as Latin American and Latino Studies 272. 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.
- 279 India, Pakistan and Ceylon: Society and Culture. 3 Hours.** Same as Asian Studies 279. Survey of the people and cultures of India, Pakistan, and Ceylon; emphasis on social structure, religion, and recent cultural changes.
- 280 China and Japan: Society and Culture. 3 Hours.** Same as Asian Studies 280. Survey of social and economic organization during the recent past of China and Japan: analysis of traditional family structure; impact of urbanization and industrialization.
- 281 Ethnography of North Africa and the Middle East. 3 Hours.** Anthropological introduction to the peoples and cultures of North Africa and the Middle East. Emphasis on contemporary religious, ethnic, political, and gender issues.
- 309 Writing Culture. 3 Hours.** 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. Prerequisites: Anth 101 and completion of the English composition requirement or equivalent; or consent of the instructor.
- 310 An Introduction to the Anthropology of the Body. 3 Hours.** 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.
- 311 The Anthropology of Consumption. 3 Hours.** 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.
- 312 Cross-Cultural and Historical Perspectives of Youth Culture. 3 Hours.** 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.
- 313 Language, Culture and Society. 3 Hours.** 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: 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.
- 321 Prehistory of the Near East. 3 Hours.** Consideration of Southwestern Asia as the core area for the development of Homo sapiens and the emergence of the earliest civilizations.
- 330 Primate Evolution. 4 Hours.** Same as Biological Sciences 313. Paleontology and systematics of fossil primates, emphasizing the adaptive radiations of the major living groups.
- 335 Topics in Physical Anthropology. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Theoretical and substantive issues in the study of both human and non-human primates as well as hominids, as represented in current journals and topical volumes. Prerequisite: Anth 103 or Anth 105 and one 200-level course in physical anthropology.
- 386 Elements of Spatial Analysis. 3 Hours.** Same as Geography 386. 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. Prerequisite: Consent of the instructor.
- 390 Honors Research. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Successful completion necessary for “Departmental Distinction,” with final paper submitted to a three-member honors committee for approval. Individual study or research projects for students seeking departmental distinction. Prerequisites: Junior standing or above, approval of the department, a 4.00 university grade point average, and a 4.50 grade point average in anthropology.
- 394 Topics in Anthropology. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Reading, study and discussion of selected problems in anthropology. Prerequisite: Anth 101 or consent of the instructor.
- 405 Human Growth and Nutrition. 3 Hours.** Same as Epidemiology 405. 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.
- 409 Ancient Maya Writing, Language and Culture. 3 Hours.** Same as Latin American and Latino Studies 409. Recent trends in Maya epigraphy, information gained from Maya hieroglyphs, linguistics, and historical ethnographies are applied to anthropological analyses of past lifeways. Prerequisite: Junior standing or above; and consent of the instructor.
- 411 Urban Cultural Problems. 3 Hours.** A study of the processes of urbanization and of cultural and social adjustments to the city; illustrated by case studies.
- 413 Social Organization. 3 Hours.** Theory and method in the study of kinship and social organization, for advanced undergraduate and graduate students. Prerequisite: Anth 213 or graduate standing or consent of the instructor.
- 414 Symbolic Anthropology. 3 Hours.** The interpretation of cultures through their ritual, religions, culture and other types of symbolism. Prerequisite: Anth 101 or consent of the instructor.
- 415 Medical Anthropology. 3 Hours.** Survey of the history of non-Western medicine; analysis of ecological relationships behind folk medicine; principles and methods of studying ethnomedicine. Prerequisite: Anth 200 or consent of the instructor.
- 417 Marxist Approaches to Anthropology. 3 Hours.** 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.
- 418 Fieldwork: Ethnographic and Qualitative Fieldwork Techniques. 3 Hours.** Same as Sociology 408. Practical introduction to the techniques of anthropologists and qualitative sociologists for research in natural social settings: participant observation/ nonparticipant observation, interviewing, use of documentary sources. Prerequisites: Junior standing and Anth 213 or Soc 202 or consent of the instructor.



- 420 Seminar in Archaeology and Ethnography. 3 Hours.** May be repeated for a maximum of 15 hours of credit. Case studies of investigations in archaeology using research monographs and other primary sources. Substantive data and related theoretical problems are examined simultaneously. Prerequisites: Junior standing or consent of the instructor.
- 421 Geomorphology and Archeology. 3 Hours.** Same as Geography 432. Relevance of geomorphic processes and landform development to archeology; role of geomorphology in archeological surveys, paleogeographic reconstruction, and archeological interpretation. Elements of geoarcheology. Prerequisite: Geog 131 or Geol 101 or consent of the instructor.
- 422 Prehistory of the Levant and the Nile Valley. 3 Hours.** Detailed analysis of Levantine and Nile Valley prehistory during the Pleistocene and early Holocene. Prerequisite: Anth 221 or 222 or consent of the instructor.
- 424 Violence. 3 Hours.** Same as Criminal Justice 423. 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. Prerequisites: CrJ 101 and 200.
- 425 Field Techniques in Archaeology. 4 Hours.** 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. Prerequisites: Anth 102 or the equivalent and consent of the instructor. Concurrent registration in Anth 426 is recommended.
- 426 Laboratory Techniques in Archaeology. 4 Hours.** Exposes students to laboratory methods in archaeology through the analysis of excavated materials. Students are instructed in laboratory techniques including processing, classifying, dating, interpretation, evaluation, and preparation of written reports of archaeological research. Usually offered in the summer. Prerequisites: Anth 102 or the equivalent and consent of the instructor. Concurrent registration in Anth 425 is recommended.
- 427 Theory and Application in Ethnoarchaeology. 3 Hours.** Focuses on the application of scientific experimentation and ethnographic information to enhance our understanding of the archaeological record, material culture, and past human behavior. Prerequisite: One 100- or 200-level archaeology course; or graduate standing and consent of instructor.
- 428 Chiefdoms. 3 Hours.** Focus on traditional non-state, yet complex, societies known as "chiefdoms". Examine the organization and evolution of such societies through a combination of ethnographic, historical and archaeological data. Prerequisite: Anth 101 or Anth 102 or consent of the instructor.
- 430 Seminar in Primate Biology. 4 Hours.** Theoretical and substantive issues in the study of nonhuman primates and hominids, as represented in current journals and topical volumes.
- 437 Bioarchaeology. 5 Hours.** 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. Prerequisites: Grade of B or better in Anth 237 and consent of the instructor.
- 440 The Experience of Culture Difference: Culture Shock. 3 Hours.** Explores experience of different cultures, the process of learning a different culture, and issues arising from the nature of the encounter in fieldwork. Prerequisite: One course in social or cultural anthropology, or experience in another culture.
- 441 Psychoanalytic Anthropology I: Cross-Cultural Theory. 3 Hours.** 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. Prerequisite: One course in anthropology or psychology; or consent of the instructor.
- 442 Psychoanalytic Anthropology II: Cross-Cultural Applications. 3 Hours.** Explores ways in which anthropologists and analysts have used psychoanalysis to understand individuals, practices and institutions of other cultures. Prerequisite: Anth 441 or consent of the instructor.
- 443 Leadership: Psychology, Strategy, Culture. 3 Hours.** Psychological and anthropological theories of leadership developed on our culture will be tested against descriptions of leadership in diverse non-Western societies. Prerequisite: One course in anthropology.
- 444 Dreams, Dreaming, and Dream Beliefs. 3 Hours.** The dreaming experience examined from the point of view of psychological interpretation, laboratory experiments and anthropological study of dreams in other cultures. Prerequisite: One course in anthropology or psychology and junior or senior standing, or consent of the instructor.
- 453 Seminar in Cultural Ecology. 3 Hours.** Same as Geography 453. Cultural ecology and cultural evolution, emphasizing peasant farming and other subsistence systems. Soil management under shifting and sedentary agriculture. Prerequisite: Anth 101 or Geog 151 or consent of the instructor.
- 455 Quantitative Methods in Anthropology. 3 Hours.** Same as Geography 455. Extensive computer use required. 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. Prerequisite: Junior standing or above; and consent of the instructor.
- 470 Classic Ethnographies. 3 Hours.** Analysis of method and theory reflected in selected classic anthropological works, studied in their historical contexts and contemporary uses. Prerequisite: Anth 101 or 213 or consent of the instructor.
- 474 Urban Cultures of Africa. 3 Hours.** A study of the indigenous urban centers of sub-Saharan Africa; the multicultural cities of colonial and contemporary Africa, and the processes of detribalization.
- 475 Problems in South American Ethnology. 3 Hours.** Same as Latin American and Latino Studies 475. Intensive reading and research in theoretical and ethnographic problems in South American Indian social structures and cultures. Special attention will be given to the influence of Levi-Strauss' ideas on the formulation of cultural theory in South America. Prerequisite: Anth 213 or consent of the instructor.
- 476 Rise and Fall of the Inca Empire. 3 Hours.** 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: Sophomore standing or above.
- 477 Remote sensing of the Environment. 3 Hours.** 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.
- 479 Culture and Colonialism in South Asia. 3 Hours.** Same as Asian Studies 479 and History 479. Examines the emergence of colonial cultures of domination and resistance on the Indian subcontinent from the eighteenth century to 1947.
- 480 Sociolinguistics. 3 Hours.** Same as Linguistics 480. Variations in language that correlate with variation in societies and smaller social groups; interactions of languages and societies. Prerequisites: Ling 405 or junior standing and consent of the instructor.
- 481 Geographic Information Systems I. 4 Hours.** Same as Geography 481. Components and performance properties of geographic information systems. Geographic hierarchies and data structures. Problems and solutions in handling large geographic files. Geocoding. Prerequisites: Geog 100 and one from Geog 278, Geog 386, IDS 100; or consent of the instructor.
- 482 Geographic Information Systems II. 4 Hours.** Same as Geography 482. Application of inferential statistical techniques and probability models in geographic research. Topics include use of descriptive parameters in recognizing geographic relationships, tests of significance, and recognition of areal patterns. Prerequisite: Geog 481 or consent of the instructor.
- 483 Geographic Information Systems III. 4 Hours.** Same as Geography 483. 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. Prerequisite: Geog 482 or consent of the instructor.
- 484 Mapping with Micros. 4 Hours.** Same as Geography 478. 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. Prerequisite: Geog 475 or consent of the instructor.
- 490 Independent Study. 1 to 6 Hours.** May be repeated for a maximum of 8 hours of credit with the approval of the department. Students may register for more than one section per term. Independent reading under the supervision of a faculty member. Prerequisites: Junior standing and consent of the instructor.

- 494 Special Topics in Anthropology. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Reading, study, and discussion of selected problems for graduate students and majors in anthropology. Prerequisite: Junior standing or approval of the department.

## Arabic (Arab)

- 101 Elementary Arabic I. 4 Hours.** Introduction to and practice in speaking, reading, and writing Arabic and comprehending spoken Arabic. Prerequisite: For students who have not studied Arabic or placement as determined by test score or consent of the instructor.
- 102 Elementary Arabic II. 4 Hours.** Continues Arabic 101. Prerequisite: Arab 101 or adequate performance on the placement test or consent of the instructor.
- 103 Intermediate Arabic I. 4 Hours.** Continuation of practice in speaking, reading, and writing Arabic and comprehending spoken Arabic. Prerequisite: Arab 102 or adequate performance on the placement test or consent of the instructor.
- 104 Intermediate Arabic II. 4 Hours.** Continuation of practice in comprehending spoken Arabic and reading Arabic with some work in speaking and writing Arabic. Prerequisite: Arab 103 or adequate performance on the placement test or consent of the instructor.
- 201 Advanced Literary Arabic. 4 Hours.** One additional hour each week in the language laboratory. 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. Prerequisites: Arab 104 or appropriate score on the departmental placement test and consent of the instructor.
- 202 Qur'an/Advanced Literary Arabic. 4 Hours.** One additional hour each week in the language laboratory. Readings in the Qur'an, including further advanced Arabic grammar focusing on the weak verbs and complex syntax. Prerequisites: Arab 201, or appropriate score on the placement test and consent of the instructor.

## Archaeological Studies(ArSt)

- 210 The Art and Archaeology of Ancient Egypt. 3 Hours.** Same as African-American Studies 210 and Art History 210. Ancient Egypt from 6000 BC to 400 AD. Architecture, sculpture, and painting in their social and historical contexts. Prerequisite: Sophomore standing.

## Asian Studies (AsSt)

- 109 East Asian Civilization: China. 3 Hours.** Same as History 109. An introduction to Chinese civilization, including history, philosophy, and religions from earliest times to c. 1500.
- 110 East Asian Civilization: Japan. 3 Hours.** Same as History 110. An overview of Japanese history from earliest times to the mid-twentieth century: social structure, economic change, political institutions, religion, and culture.

- 228 Sociology of Asia and Asian Americans. 3 Hours.** Same as Sociology 228. 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. Prerequisite: Soc 100.
- 231 Politics in China. 3 Hours.** Same as Political Science 231. The dynamics of the Chinese Communist revolution; post-Mao reforms; the structure and operation of key political institutions; relations with major powers. Prerequisite: PolS 130 or PolS 190 or consent of the instructor.
- 232 Politics in Japan and Korea. 3 Hours.** Same as Political Science 232. Sources, dynamics, and patterns of politics in Japan and the two Koreas. Appraisal of the Japanese model. Comparison of Japan and Korea. Prerequisite: PolS 130 or PolS 190 or consent of the instructor.
- 271 Late Imperial China: 1500 to 1911. 3 Hours.** Same as History 271. 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.
- 272 China Since 1911. 3 Hours.** Same as History 272. Twentieth-century China from 1911 to the present, including warfare; areas of intellectual inquiry; and changes in government, family, and the role of women.
- 273 Japan to 1600. 3 Hours.** Same as History 273. Topical survey from earliest times to 1600: political and economic institutions, ideology, class structure, gender, culture, religions, and warfare.
- 274 Japan Since 1600. 3 Hours.** Same as History 274. 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.
- 275 History of South Asia. 3 Hours.** Same as History 275. An outline of South Asian history from the earliest times to the present, in regional and global contexts.
- 279 India, Pakistan and Ceylon: Society and Culture. 3 Hours.** Same as Anthropology 279. Survey of the people and cultures of India, Pakistan, and Ceylon; emphasis on social structure, religion, and recent cultural changes.
- 280 China and Japan: Society and Culture. 3 Hours.** Same as Anthropology 280. Survey of social and economic organization during the recent past of China and Japan: analysis of traditional family structure; impact of urbanization and industrialization.
- 320 Asian Architecture. 3 Hours.** Same as Art History 320. Survey of the architecture of India, Southeast Asia and East Asia, with an emphasis on Japan.
- 370 Chinese Art. 3 Hours.** Same as Art History 370. Survey of Chinese architecture, sculpture, painting, and related arts from Neolithic times to the eighteenth century.
- 371 Japanese Art. 3 Hours.** Same as Art History 371. Survey of Japanese architecture, sculpture, painting, woodblock prints, and related arts from Neolithic times to the nineteenth century.

- 471 Topics in Asian Art and Architecture. 3 Hours.** Same as Art History 471. May be repeated for credit when topics vary. Selected topics in the art and architecture of Asia. Prerequisite: 3 hours of Asian art and/or architecture or consent of the instructor.

- 472 Issues and Events in Twentieth-Century China. 3 Hours.** Same as History 472. 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. Prerequisite: Previous course work in Chinese history at the 100 or 200 level is recommended.

- 473 Topics in East Asian History. 3 Hours.** Same as History 473. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of East Asian history or consent of the instructor.

- 478 Women in Chinese History. 3 Hours.** Same as Gender and Women's Studies 478 and History 478. 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. Prerequisite: Previous course work in Chinese history or women's studies is recommended.

- 479 Culture and Colonialism in South Asia. 3 Hours.** Same as Anthropology 479 and History 479. Examines the emergence of colonial cultures of domination and resistance on the Indian subcontinent from the eighteenth century to 1947.

## Biological Sciences (BioS)

- 100 Biology of Cells and Organisms. 5 Hours.** Animals used in instruction. 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.
- 101 Biology of Populations and Communities. 5 Hours.** Animals used in instruction. Processes leading to diversity of organisms and ecosystems: kingdoms, animal behavior, Mendelian genetics and evolution, populations, and ecology. Lecture, laboratory, and discussion.
- 103 Human Development and Reproduction. 5 Hours.** Animals used in instruction. No credit given toward the major in biological sciences. Principles of human development and reproduction and the underlying concepts of cell and developmental biology, including related bioethical and biotechnological issues.
- 104 Life Evolving. 5 Hours.** Animals used in instruction. Origin and diversity of life; genetics, evolution, and ecosystems; energy flow, photosynthesis, and development of biological ideas; biology and human society.
- 196 Biology Colloquium. 1 Hour.** May be repeated once for credit. Satisfactory/unsatisfactory grade only. A series of specially arranged seminars, small group activities, and field trips in different areas of interest in biological sciences. Prerequisite: Major in biological sciences or biochemistry.

- 199 Introduction to Research. 1 Hour.** May be repeated for credit. Satisfactory/unsatisfactory grade only. An introduction to research for students interested in becoming biology majors. Credit is contingent on approval by the research supervisor of a written report that is also submitted to the biology colloquium faculty advisor. Prerequisite: Concurrent registration in BioS 196 or approval of the department.
- 204 Environmental Biology. 2 Hours.** Biological aspects of environmental problems including exponential growth, resources, sustainability, biodiversity, habitat preservation and restoration, and global change using the case study method. Prerequisite: BioS 101 or an introductory course in environmental studies or consent of the instructor.
- 206 Human Genetics. 3 Hours.** Basic principles applied to pedigree analysis, genetic disease, gene therapy, populations, race and bioethics. Prerequisite: BioS 100.
- 210 Fossil Humans. 4 Hours.** Same as Anthropology 231. 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.
- 211 Biological Bases and Evolution of Human Behavior. 4 Hours.** Same as Anthropology 235. Comparative behavior of human and nonhuman primates; biological bases of primate behavior in terms of general evolutionary trends.
- 212 The Human Skeleton. 4 Hours.** Same as Anthropology 237. Examination of the human skeleton, emphasizing bone identification and the functional anatomy of locomotion and dentition.
- 220 Mendelian and Molecular Genetics. 3 Hours.** No credit toward the biological sciences major unless credit is also obtained for Biological Sciences 221. 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. Prerequisites: BioS 100 and BioS 101 and Math 090; and credit or concurrent registration in Chem 232; or the equivalents.
- 221 Genetics Laboratory. 3 Hours.** Experiments and demonstrations of classical and molecular genetics using material from *Drosophila*, corn, rodents, bacteria, fungi, and viruses. Prerequisite: Credit or concurrent registration in BioS 220.
- 222 Cell Biology. 3 Hours.** Lecture. 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. Prerequisites: BIOS 100 and CHEM 112 and CHEM 114.
- 223 Cell Biology Laboratory. 2 Hours.** Laboratory experiments in functional aspects of cellular activity, such as molecular biology, enzymology, photosynthesis, respiration. Modern methods and instrumentation are stressed. Prerequisite: Credit or concurrent registration in BioS 222.
- 230 Ecology and Evolution. 3 Hours.** 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. Prerequisites: BioS 101 and Chem 112 and Chem 114.
- 233 Plant Phylogeny. 4 Hours.** Major events in the evolution of land plants. Lecture, laboratory, discussion. Prerequisites: BioS 100 and 101; or the equivalent.
- 240 Homeostasis: The Physiology of Plants and Animals. 3 Hours.** Basic concepts of physiological mechanisms that contribute to survival of multicellular organisms. Comparison of a variety of organisms. Prerequisites: BioS 100 and Chem 112 and Chem 114.
- 244 Introductory Plant Physiology. 4 Hours.** A survey of topics in plant physiology, including cell structure and function, water relations, mineral nutrition, photosynthesis and respiration, and growth and development. Prerequisites: BioS 100 and 101; or the equivalent; or consent of the instructor.
- 245 Comparative Animal Physiology. 5 Hours.** Animals used in instruction. Basic animal physiology dealing with the structural and functional adaptations of animals in response to environmental stresses. Lecture and laboratory. Prerequisites: BioS 100 and BioS 101.
- 268 Plants and Human Society. 3 Hours.** Human uses of plants as sources of food, fuel, wood, fibers, medically useful drugs, narcotics and hallucinogens. Prerequisites: BioS 100 and 101; or the equivalent.
- 270 Animals Without Backbones: Invertebrate Zoology. 4 Hours.** Animals used in instruction. Classification and comparative structure, development, ecology and evolution of non-vertebrate animals. Lecture and demonstration. Prerequisites: One year of biological sciences.
- 272 Comparative Vertebrate Anatomy. 5 Hours.** Animals used in instruction. Morphology, function, and evolution of vertebrate organ systems. Lecture and laboratory. Prerequisites: BioS 100 and 101.
- 286 The Biology of the Brain. 3 Hours.** Survey of basic neurobiology. Brain structure, chemistry, development and control of behavior (sensation, movement, emotions, memory, cognition, sex). Prerequisites: BioS 100 and 101; or the equivalent; or consent of the instructor.
- 296 Directed Instruction. 2 Hours.** May be repeated for credit. A maximum of 2 hours of credit may be applied toward the undergraduate major in biological sciences. Satisfactory/unsatisfactory grade only. 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. Prerequisite: Approval of the department.
- 299 Honors Biology. 1 Hour.** May be repeated for 1 hour each term. Open only to freshmen, sophomores, and juniors. An additional hour of related work for students registered in another course in biological sciences. Prerequisites: Membership in Honors College, or, for superior students, approval of the department; and registration in a biological sciences course (except BioS 391, 393, 395, or 399); and consent of the instructor.
- 313 Primate Evolution. 4 Hours.** Same as Anthropology 330. Paleontology and systematics of fossil primates, emphasizing the adaptive radiations of the major living groups.
- 320 Developmental Biology. 3 Hours.** Principles governing growth and differentiation from the molecular to the organismic level. Prerequisite: BioS 220.
- 321 Developmental Biology Laboratory. 3 Hours.** Animals used in instruction. Laboratory problems in developmental biology. Prerequisite: Credit or concurrent registration in BioS 320.
- 325 Vertebrate Embryology. 5 Hours.** Study of the anatomical changes occurring during vertebrate development and their underlying control mechanisms. Lecture, laboratory. Prerequisites: BioS 100 and 101; or the equivalent.
- 330 General Ecology. 3 Hours.** Interactions among organisms and their resources at the population, community, biome, and global levels, with practical applications. Prerequisites: BioS 100 and 101; or the equivalent.
- 331 General Ecology Laboratory. 2 Hours.** Fieldwork required. Four of six field trips are required. Sunday field trips in even years and Saturday field trips in odd years. Animals used in instruction. Observation and experiments on field trips and in laboratory; required field trips to representative communities. Prerequisite: Credit or concurrent registration in BioS 330.
- 335 History of Life. 3 Hours.** A macroevolutionary perspective on documenting patterns of evolutionary change and understanding interactions between speciation and extinction in creating patterns of morphologic and taxonomic diversity. Prerequisites: BioS 100 and 101 or the equivalent.
- 350 General Microbiology. 3 Hours.** Ultrastructure, genetics, molecular biology, physiology, and metabolism of microorganisms; role of microorganisms in food, water, agriculture, biotechnology, infectious diseases, and immunobiology. Prerequisites: BioS 100 and 101 or the equivalent; and credit or concurrent registration in either Chem 130 or 232.
- 351 Microbiology Laboratory. 2 Hours.** 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: Credit or concurrent registration in BioS 350.
- 352 Introductory Biochemistry. 3 Hours.** Same as Chemistry 352. No credit toward the degree in biochemistry. No credit toward the biological sciences major for students completing Biological Sciences 452 and/or 454. Structure and function of cellular constituents; enzymology; metabolism of carbohydrates, lipids, amino acids, nucleotides; molecular biology of biosynthesis of proteins and nucleic acids. Prerequisites: BioS 100 and Chem 232.
- 360 Introduction to Paleontology. 4 Hours.** Same as Earth and Environmental Sciences 360. The morphology, ecology, and relationships of fossil organisms. Basic principles of paleontology, including evolution, paleoecology, and functional morphology. Prerequisite: EaES 102 or one year of biological sciences.
- 386 Seminar on Neurobiology. 2 Hours.** Reading and discussion of both classic and recent research papers that are important in neurobiology. Prerequisite: BioS 286 or the equivalent.



- 391 Independent Study. 1 Hour.** May be repeated for credit. A maximum of 5 hours of Biological Sciences 391 and/or 399 may be credited toward the department undergraduate major requirements. Students may register for more than one section per term. Satisfactory/Unsatisfactory grade only. Individual study not covered in standard courses under close supervision of a faculty member. Credit is contingent on approval by the research supervisor of a written report that is submitted to the department. Prerequisites: Minimum of 4.00 grade point average in biological sciences courses and consent of the instructor.
- 399 Independent Research. 2 Hours.** May be repeated for credit. A maximum of 5 hours of Biological Sciences 391 and/or 399 may be credited toward the department undergraduate major requirements. Students may register for more than one section per term. Satisfactory/unsatisfactory grade only. Individual research. Credit is contingent on approval by the research supervisor of a written report that is submitted to the department. Prerequisites: Minimum of 4.00 grade point average in biological sciences courses, approval of the department, and consent of the instructor. Junior standing is recommended.
- 402 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.
- 403 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.
- 416 Natural Products. 3 Hours.** Same as Chemistry 456. Biogenetic approach to secondary metabolites. General principles and selected studies of phenolic compounds, terpenes, alkaloids, and other interesting natural products. Prerequisite: One year of organic chemistry.
- 424 Mammalian Histology. 4 Hours.** The microscopic anatomy of tissues and organs in relation to their function. Prerequisite: BioS 225 or 272.
- 429 Laboratory in Electron Microscopy. 3 Hours** Satisfactory/unsatisfactory grade only. Animals used in instruction. Laboratory instruction in cell preparation and instrument operation in transmission and scanning electron microscopy. Prerequisite: Consent of the instructor.
- 430 Evolution. 4 Hours.** Mechanisms of genetic and phenotypic stability and change in populations and species; modes of speciation and macroevolution; trends in evolution. Lecture and discussion. Prerequisite: BioS 220.
- 431 Plant and Animal Interactions. 3 Hours.** Ecology of non-symbiotic relationships of plants and animals, including protection mutualisms, pollination, seed dispersal, animal herbivory and plant defense. Prerequisites: BioS 100 and 101 or the equivalent; and any 200- or 300-level course in biological sciences.
- 432 Restoration Ecology. 3 Hours.** Philosophical, historical, and ecological basis for ecological restoration, with emphasis on readings in the primary literature and writing. Prerequisite: BioS 330 or the equivalent.
- 434 Population Biology. 3 Hours.** 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. Prerequisites: BioS 220 and Math 180.
- 436 Biological Conservation. 3 Hours.** Applied ecology of the sustained use of natural resources; emphasis on biological diversity, pollution, population increase, multiple-use concept, and land ethics. Lecture, discussion, and term paper. Prerequisite: Credit or concurrent registration in BioS 330 and 331; or consent of the instructor.
- 439 Field Problems in Biology. 1 to 3 Hours.** May be taken either between semesters (registration during preceding semester) or for a full semester. Credit is given on completion of a satisfactory written report. Field research in natural habitats. Prerequisites: Field experience in a previous biological sciences course and consent of the instructor.
- 440 Plant Physiology. 2 Hours.** Structure and function of the plant cell; emphasis on membrane function, water relations, solute absorption and translocation, and photosynthesis. Prerequisites: BioS 100 and 101, or the equivalent; and BioS 222 or 244.
- 442 Nerve and Muscle Physiology. 4 Hours.** Function of excitable cells in neural, muscular, and cardiovascular tissues will be studied at both cellular and system levels. Prerequisite: Two years of biological sciences.
- 443 Animal Physiological Systems. 4 Hours.** Animals used in instruction. Basic function of renal, respiratory, and digestive systems. Integrative role of endocrine systems. Prerequisite: Two years of biological sciences. Credit in Biological Sciences 442 is recommended.
- 448 Environmental Toxicology. 3 Hours.** Sources of environmental pollution and their ecological and health effects. Prerequisites: BioS 100 and 101; and one physiology course; and credit or concurrent registration in Chem 232.
- 450 Advanced Microbiology. 3 Hours.** Comprehensive analysis of metabolic, ecological, phylogenetic, and cytological diversity among the major groups of eubacteria and archaeobacteria. Prerequisite: BioS 350. Credit in BioS 456 is strongly recommended.
- 452 Biochemistry I. 4 Hours.** Same as Chemistry 452. Chemistry of proteins, nucleic acids, carbohydrates, and lipids. Prerequisite: Credit or concurrent registration in Chem 234.
- 454 Biochemistry II. 4 Hours.** Same as Chemistry 454. 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. Prerequisite: BioS 452.
- 456 Microbial Physiology. 4 Hours.** Prokaryotic cell structure and function; various pathways of energy generation; microbial photosynthesis; microbial genetics; molecular biology of biosynthesis of amino acids, nucleotides and informational macromolecules. Prerequisite: BioS 350.
- 457 General Virology. 4 Hours.** Nature of viruses, their morphology, chemical composition, assay, host-parasite interactions, and life cycles. Prerequisites: BioS 220; and either 222 or 350.
- 466 Principles of Paleontology. 4 Hours.** Same as Earth and Environmental Sciences 466. Theory and methods of evolutionary paleobiology; includes paleoecology, functional morphology, and major features of organic evolution. Prerequisite: BioS 360 or consent of the instructor.
- 475 Neural Engineering I: Introduction to Hybrid Neural Systems. 3 Hours.** Same as Bioengineering 475. Previously listed as BioS 474. 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. Prerequisites: Bios 442 and credit or concurrent registration in Bioe 472.
- 483 Mammalian Neuroanatomy. 5 Hours.** Animals used in instruction. Structure and function of the mammalian central nervous system. Prerequisite: BioS 225 or 272.
- 486 Animal Behavior and Neuroethology. 4 Hours.** Animals used in instruction. 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. Prerequisite: One advanced course in zoology and animal physiology.
- 487 Developmental Neurobiology. 3 Hours.** Mechanisms contributing to the development of structural and functional components of the nervous system; emphasis on cellular interactions. Prerequisite: BioS 225 or 420.
- 488 Developmental Neurogenetics. 3 Hours.** Classical and molecular genetic approaches to the study of the development of the nervous system, concentrating on studies in fruit flies, nematodes and vertebrates. Prerequisites: BioS 220 and either BioS 225 or 420.
- 489 Cellular Neurobiology Laboratory. 3 Hours.** Recording from and analyzing the activity of nerve cells, neuronal networks, and other electrically excitable tissues. Prerequisite: BioS 286 or the equivalent.



**490 Topics in Ecology and Evolution. 3 to 4 Hours.** May be repeated for credit. Credit varies according to topic offered. Students may register for more than one section per term. In-depth analysis of advanced topics in ecology and evolution, involving reading primary literature, term paper, student presentations, and critical discussion. Prerequisite: Graduate standing or consent of the instructor.

**491 Laboratory in Ecology and Evolution. 0 Hour.** May be repeated. Students may register for more than one section per term. Laboratory component of Biological Sciences 490. Prerequisite: Concurrent registration in BioS 490.

## Catholic Studies (CSt)

**120 Catholic Thought: An Introduction. 3 Hours.** Same as Religious Studies 120. Introduction to the main topics, interests, and methods of Catholic thought.

**150 Catholicism in U.S. History. 3 Hours.** Same as History 150 and Religious Studies 150. The Catholic experience in the United States from its colonial origins to the present.

**193 The Divine Comedy. 3 Hours.** Same as Italian 193 and Religious Studies 193. Taught in English. An in-depth study of the Divine Comedy, read in English, against the philosophical and theological background of the Middle Ages.

**294 Topics in Catholic History. 3 Hours.** Same as History 294 and Religious Studies 294. May be repeated for credit if topic is different for each registration. 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.

**295 Topics in Catholic Thought. 3 Hours.** Same as Religious Studies 295. May be repeated for credit if topic is different for each registration. 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.

**394 Topics in Catholic History and Culture. 3 Hours.** Same as History 394 and Religious Studies 394. Exploration of various topics in Catholic history and culture. Prerequisite: One course in history or Catholic studies; or consent of the instructor.

## Chemistry (Chem)

**100 Chemistry and Life. 5 Hours.** Principles of structural and environmental chemistry underlying the phenomenon of life on Earth, discussed in a historical, cultural, and philosophical framework. Includes a weekly two-hour laboratory.

**101 Preparatory Chemistry. 4 Hours.** For students without entrance credit in high school chemistry or inadequately prepared. Emphasis on problem solving. Metric units, dimensional analysis, chemical nomenclature, the mole concept, chemical stoichiometry. Prerequisite: Adequate performance on the UIC chemistry placement examination.

**102 Preparatory Chemistry with Cooperative Intermediate Algebra. 4 Hours.** Not open to students with credit in Chemistry 101 or Mathematics 090. For students without entrance credit in high school chemistry or inadequately prepared. Recommended in place of Chemistry 101 for students concurrently taking intermediate algebra. Equivalent to Chemistry 101, but with particular emphasis on the mathematics required for success in the study of chemistry. Metric units, dimensional analysis, the mole concept, chemical stoichiometry and nomenclature, chemical equilibria. Prerequisite: Adequate performance on the UIC chemistry placement examination and concurrent registration in Math 092.

**112 General College Chemistry I. 5 Hours.** Credit is not given for Chemistry 112 if the student has credit in Chemistry 116. Stoichiometry, periodicity, reaction types, the gaseous state, solution stoichiometry, chemical equilibria, acid-base equilibria, dissolution-precipitation equilibria. Includes a weekly three-hour laboratory. Prerequisite: 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.

**114 General College Chemistry II. 5 Hours.** Credit is not given for Chemistry 114 if the student has credit in Chemistry 118. Phase transitions, thermochemistry, spontaneity and equilibrium, electrochemistry, kinetics, bonding theory, order and symmetry in condensed phases, coordination compounds, descriptive chemistry of inorganic compounds. Includes a weekly three-hour laboratory. Prerequisite: Chem 112 or the equivalent. Students with an equivalent course from another institution must take the chemistry placement examination.

**116 Honors General Chemistry I. 5 Hours.** Credit is not given for Chemistry 116 if the student has credit in Chemistry 112. Primarily for students in chemistry, chemical engineering, and physics curricula. First of a two-semester sequence covering the same topics as Chemistry 112 and 114 in greater depth. Includes a weekly three-hour laboratory. Prerequisite: Superior performance on the UIC chemistry placement examination.

**118 Honors General Chemistry II. 5 Hours.** Credit is not given for Chemistry 118 if the student has credit in Chemistry 114. Continues Chemistry 116. Includes one weekly three-hour laboratory. Prerequisite: Grade of C or better in Chem 116.

**130 Survey of Organic and Biochemistry. 5 Hours.** 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: Chem 112 or the equivalent.

**201 Elements of Glass Blowing. 1 Hour.** Demonstrations and practice in glass blowing and the construction of simple laboratory equipment. Prerequisites: Senior standing in chemistry and consent of the instructor.

**222 Analytical Chemistry. 4 Hours.** Theory and application of chemical equilibria and instrumentation in quantitative analysis. Includes two weekly three-hour laboratories. Prerequisite: Chem 114 or 118 or the equivalent.

**232 Organic Chemistry I. 4 Hours.** First semester of a one-year sequence. Structure, reactivity, and synthesis of organic molecules. Prerequisite: Chem 114 or 118. Concurrent registration in Chem 233 is recommended.

**233 Organic Chemistry Laboratory I. 1 Hour.** Introductory organic chemistry laboratory. Basic organic techniques (distillation, crystallization), reactions (esterification, oxidation, addition, substitution, elimination), instruments (gas and liquid chromatography). Prerequisite: Credit or concurrent registration in Chem 232.

**234 Organic Chemistry II. 4 Hours.** Continues Chemistry 232. Prerequisite: Chem 232.

**235 Organic Chemistry Laboratory II. 2 Hours.** Advanced organic chemistry laboratory. Synthesis, stereochemistry, spectrometry (IR, NMR), organic analytical chemistry (TLC, HPLC), microscale techniques. Prerequisites: Chem 233 and credit or concurrent registration in Chem 234.

**302 Application of Computers to Chemistry. 2 Hours.** Overview of computer hardware and software applications to chemistry; online searching of the chemical literature; computerized management and manipulation of data. Includes two-hour computer laboratory. Prerequisite: Chem 232.

**305 Environmental Chemistry. 3 Hours.** The chemistry of the environment and the consequences of pollution brought about by natural and synthetic materials and modern energy usage. Prerequisite: Chem 234.

**314 Intermediate Inorganic Chemistry. 4 Hours.** No credit toward a chemistry major for students with credit in Chemistry 414. Chemistry of the main-group elements, coordination chemistry and the transition elements, bioinorganic chemistry. Includes a weekly laboratory. Prerequisites: Chem 232 and 233.

**342 Physical Chemistry I. 3 Hours.** Thermodynamics of gases, solutions, reaction equilibria, and phase transitions. Prerequisites: Math 181, and either Chem 222 or ChE 201; and one year of college physics.

**343 Physical Chemistry Laboratory. 3 Hours.** Experiments demonstrating principles of thermodynamics, reaction kinetics, spectroscopy and quantum mechanics in chemical systems using modern instrumentation and methods of data analysis. Prerequisite: Chem 342.

**344 Physical Chemistry for Biochemists. 2 Hours.** Credit is not given for both Chemistry 344 and 346. Intended as a substitute for Chemistry 346. Introduction to quantum mechanics and spectroscopy with applications of principles of physical chemistry to biochemical systems and macromolecules. Prerequisite: Chem 342.

**346 Physical Chemistry II. 3 Hours.** Kinetic and molecular theory of gases; introduction to the principles of quantum mechanics with application to model systems, multi-electron atoms, diatomic molecules, and bonding. Prerequisites: Chem 342 and Math 210.

**352 Introductory Biochemistry. 3 Hours.**

Same as Biological Sciences 352. No credit toward the degree in biochemistry. No credit toward the biological sciences major for students completing Biological Sciences 452 and/or 454. Structure and function of cellular constituents; enzymology; metabolism of carbohydrates, lipids, amino acids, nucleotides; molecular biology of biosynthesis of proteins and nucleic acids. Prerequisites: BioS 100 and Chem 232.

**414 Inorganic Chemistry I. 3 Hours.**

Introduction to the principles of inorganic chemistry. Structural and descriptive chemistry of the main-group elements. Prerequisite: Chem 342 or consent of the instructor.

**415 Inorganic Chemistry Laboratory. 2 Hours.**

Advanced inorganic chemistry laboratory. Preparative methods, Schlenk techniques, dry box, Fourier-transform infra-red and UV-visible spectroscopy, crystal growth. Prerequisite: Credit or concurrent registration in Chem 414.

**416 Inorganic Chemistry II. 3 Hours.**

Structural and descriptive chemistry of the transition elements. Prerequisite: Chem 414.

**421 Instrumental Analysis. 4 Hours.**

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. Prerequisites: Chem 222 and credit or concurrent registration in Chem 342.

**432 Intermediate Organic Chemistry. 2 Hours.**

Rigorous treatment of the principles upon which modern organic chemistry is developed. Prerequisites: Chem 235 and 342.

**444 Physical Chemistry III. 2 Hours.**

Application of quantum mechanics to molecular spectroscopy, statistical mechanics and activated complex theory. Prerequisite: Chem 346.

**448 Statistical Thermodynamics. 3 Hours.**

Introduction to statistical mechanics, partition functions, chemical equilibrium, ensembles, fluctuations, real gases, Einstein and Debye models of solids, magnetic materials, electrolytes, introduction to liquids. Prerequisite: Chem 346.

**452 Biochemistry I. 4 Hours.**

Same as Biological Sciences 452. Chemistry of proteins, nucleic acids, carbohydrates and lipids. Prerequisite: Credit or concurrent registration in Chem 234.

**454 Biochemistry II. 4 Hours.**

Same as Biological Sciences 454. Continues Chemistry 452. Carbohydrate and lipid metabolism, electron transport. Metabolism of amino acids, nucleic acids, proteins. Biosynthesis of macromolecules and regulation of macromolecular synthesis. Prerequisite: BioS 452.

**455 Biochemistry Laboratory. 3 Hours.**

Introduction to experimentation with biochemical systems. Includes gas electrophoresis, protein purification, enzyme kinetics, nucleic acid biochemistry, and cloning techniques. Prerequisites: Chem 222 and concurrent registration in Chem 454.

**456 Natural Products. 3 Hours.**

Same as Biological Sciences 416. Biogenetic approach to secondary metabolites. General principles and selected studies of phenolic compounds, terpenes, alkaloids, and other interesting natural products. Prerequisite: One year of organic chemistry.

**470 Educational Practice with Seminar I. 6 Hours.**

Graduate credit only with approval of department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**471 Educational Practice with Seminar II. 6 Hours.**

Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

**474 Teaching Chemistry in High Schools. 1 Hour.**

May be repeated for credit. Satisfactory/unsatisfactory grade only. 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. Prerequisite: Approval of the department.

**488 Cooperative Chemistry Practice. 1 Hour.**

A maximum of 6 hours of Chemistry 488, 492 and 499 combined may be credited toward departmental undergraduate degree course requirements. May be repeated for credit. Satisfactory/unsatisfactory grade only. Off-campus participation in a governmental or industrial training program. Credit is contingent on the submission of a final report. Prerequisites: Concurrent registration in LAS 289 or consent of the instructor.

**492 Independent Study. 1 to 2 Hours.**

A maximum of 6 hours of Chemistry 488, 492 and 499 combined may be credited toward departmental undergraduate degree course requirements. May be repeated for credit. Satisfactory/unsatisfactory grade only. 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. Prerequisites: Grade point average of 3.50 in science courses and consent of the instructor.

**494 Special Topics in Chemistry. 1 to 4 Hours.**

May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which the course is given. Prerequisite: Approval of the department.

**499 Supervised Research. 3 Hours.**

May be repeated for a maximum of 6 hours of credit. A maximum of 6 hours of Chemistry 488, 492 and 499 combined may be credited toward departmental undergraduate degree course requirements. Satisfactory/unsatisfactory grade only. 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. Prerequisites: Junior standing or above, approval of the department, consent of the instructor and a grade point average of 3.50 in science courses; or graduate standing. Credit in Chem 235 or 314 is recommended.

**Chinese (Chin)****101 Elementary Chinese I. 4 Hours.**

Four additional half hours each week in the language laboratory. Basic grammar; sentence patterns; vocabulary study; reading and writing with Chinese characters; simple oral practice.

**102 Elementary Chinese II. 4 Hours.**

Four additional half hours each week in the language laboratory. Continuation of Chinese 101. Prerequisite: Chin 101 or the equivalent.

**103 Intermediate Chinese I. 4 Hours.**

Four additional half hours each week in the language laboratory. Advanced grammar; sentence patterns; vocabulary study; reading and writing with Chinese characters; conversation and dialogues. Prerequisite: Chin 102 or the equivalent.

**104 Intermediate Chinese II. 4 Hours.**

Four additional half hours each week in the language laboratory. Continuation of Chinese 103. Prerequisite: Chin 103 or the equivalent.

**196 Independent Study. 1 to 4 Hours.**

May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Individual study under faculty direction for qualified students with special interests and needs. Prerequisite: Consent of the instructor.

**296 Independent Study. 1 to 4 Hours.**

May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Individual study under faculty direction for qualified students at the intermediate level who have special interests and needs. Prerequisite: Consent of the instructor.

**Classics (CI)****100 Greek Civilization. 3 Hours.**

All readings are in English. An introduction to the life, society, and culture of the ancient Greeks.

**101 Roman Civilization. 3 Hours.**

All readings are in English. An introduction to the life, society, and culture of the ancient Romans.

**102 Introduction to Classical Literature. 3 Hours.**

All readings are in English. The main literary forms of Classical Antiquity: epic, tragedy, comedy, the philosophical dialogue, history.

**103 Introduction to Classical and Mediterranean Archaeology. 3 Hours.**

Taught in English. All readings are in English. 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.

**104 Mediterranean Traditions: Family, Society and the Divine. 3 Hours.**

This course is designed as an introduction to the varieties of cultural, social and religious traditions that collectively constitute Western Civilization's foundations.

**120 Introduction to Ancient Philosophy. 3 Hours.**

Same as Philosophy 120. Introduction to issues and methods of philosophy through engagement with classic Greek and Roman texts (read in translation).

**201 Classical Etymology in the Life Sciences. 3 Hours.**

Same as Linguistics 201. The structure and formation of technical terms used in the health sciences, based on roots and elements from Greek and Latin. Prerequisite: Any 100-level biological sciences sequence.

**202 The Ancient World: Greece. 3 Hours.**

Same as History 202. Greece from the Mycenaean through the Hellenistic periods; political, social, economic, and religious life of the Greek city-state and the Hellenistic kingdoms.

**203 The Ancient World: Rome. 3 Hours.**

Same as History 203. Rome from its origins to the end of the Roman Empire; emphasis on the transformation of Rome from city-state to world empire, with attention to social, cultural, and economic background.

**204 Greek Art and Archaeology. 3 Hours.**

Same as Art History 204 and History 204. 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.

**205 Roman Art and Archaeology. 3 Hours.**

Same as Art History 205 and History 205. Contributions of archaeological excavations to the study of ancient Rome and her empire, 1000 BC to 400 AD. Architecture, sculpture, and painting in their social and historical contexts.

**208 Greek Mythology. 3 Hours.**

All readings are in English. Intensive study of the gods and heroic sagas of the Greeks, through original sources in translation. Prerequisite: CI 100 or 102 or 103 or the equivalent.

**220 Ancient Philosophy I: Plato and His Predecessors. 3 Hours.**

Same as Philosophy 220. Introduction to Plato and his predecessors in the ancient period. It is recommended that Philosophy 220 and 221 be taken as a sequence in successive terms. Prerequisite: One course in philosophy or consent of the instructor.

**221 Ancient Philosophy II: Aristotle and His Successors. 3 Hours.**

Same as Philosophy 221. Introduction to Aristotle and his successors in the ancient period. It is recommended that Philosophy 220 and 221 be taken as a sequence in successive terms. Prerequisite: One course in philosophy or consent of the instructor.

**250 Greek and Roman Epic Poetry. 3 Hours.**

All readings are in English. The epic poems of Homer, Apollonius of Rhodes, Vergil, and others in the Greco-Roman tradition. Prerequisite: CI 100 or 101 or 102 or 103 or the equivalent.

**251 Greek Tragedy. 3 Hours.**

All readings are in English. The plays of Aeschylus, Sophocles, and Euripides. Prerequisite: CI 100 or 102 or 103 or 106 or the equivalent.

**252 Greek and Roman Comedy. 3 Hours.**

All readings are in English. The plays of Aristophanes, Menander, Plautus, and Terence. Prerequisite: CI 100 or 101 or 102 or 103 or 106 or the equivalent.

**253 Roman Satire and Rhetoric. 3 Hours.**

All readings are in English. A survey of Roman literature with special emphasis on satire and rhetoric. Prerequisite: CI 100 or 101 or 102 or 103 or 106 or the equivalent.

**298 Topics in Classical Civilization. 3 Hours.**

May be repeated for credit. Students may register for more than one section per term. All readings are in English. Selected topics at an intermediate level in Greek and Roman civilization. Sample topic: daily life in ancient Rome. Prerequisite: Any 100-level classics course or the equivalent.

**299 Independent Reading: Special Topics in Classics in Translation. 3 Hours.**

Individual study under faculty direction. Reading and papers on chosen topics for qualified students based on preparation and interest; students must confer with faculty. Prerequisite: Consent of the instructor and department.

**398 Advanced Topics in Classical Civilization. 3 Hours.**

May be repeated for credit. Students may register for more than one section per term. Advanced study of topics in Greek and Roman civilization. Emphasis on writing and research skills. Sample topic: Latin historiography. Prerequisite: At least two classics courses at the 100- or 200-level.

**401 Topics in Greek History. 3 Hours.**

Same as History 401. May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or classics.

**402 Topics in Roman History. 3 Hours.**

Same as History 402. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history or classics.

**404 Roman Law and the Civil Law Tradition. 3 Hours.**

Same as History 404 and Criminal Justice 404. Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. Prerequisite: CrJ 200 or CI 203 or consent of the instructor.

**490 The Classics and their Survival: Literature and Myth. 3 Hours.**

All readings are in English. Classical myth and literature (Vergil, Ovid, and in particular, Seneca) with emphasis on survival and influence on later literature and culture. Prerequisite: One 200-level course in classics or graduate-level work in literature or consent of the instructor.

**498 Special Topics in Classical Civilization. 3 Hours.**

May be repeated for credit. Students may register for more than one section per term. All readings are in English. Advanced study of topics in classical civilization. Sample topic: Augustus and his image. Prerequisite: Two classics courses at the 200-level.

**499 Advanced Independent Study. 3 Hours.**

Students may register for more than one section per term. 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. Prerequisites: Consent of the faculty member and department.

## Communication (Comm)

**100 Fundamentals of Human Communication. 3 Hours.**

No credit given towards the Major in Communication. Emphasis on strategies for public speaking and conducting meetings. Effective approaches to audience analysis, speaker credibility, using evidence, argument development, speech delivery, and planning meetings.

**101 Introduction to Communication. 3 Hours.**

Introduction to central concepts in communication, including key terms and theories, specific contexts and key debates.

**102 Introduction to Interpersonal Communication. 3 Hours.**

Effective communication in human relationships; verbal and nonverbal messages; reflective listening, disclosure, showing affection, empathy, assertiveness; handling interpersonal conflict; cultural and gender differences.

**103 Introduction to Media. 3 Hours.**

Conceptualizing mass communication. Internal and external controls. Media and minorities. Individual and societal functions of the media. Individual and societal effects of the media.

**200 Communication Technologies. 3 Hours.**

Introduction to radio/television production technology: cable television, satellite broadcasting and computer technology. Overview of history and development of electronic media technology. Prerequisites: Sophomore standing; Comm 103; and consent of the instructor.

**201 Communication Analysis. 3 Hours.**

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. Prerequisites: Math 090 or 092 or 118; and two from Comm 101, 102, 103; or approval of the department.

**203 Communication and Culture. 3 Hours.**

Examination of the relationship between communication and culture through an exploration of the general theoretical principles linking cultural influences and communicative acts. Prerequisites: Comm 101 and 102 and 103, or junior standing and approval of the department.

**207 The Mass Media and Politics. 3 Hours.**

Same as Political Science 207. 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. Prerequisite: One course in political science, sociology or contemporary history.

**299 Individual Topics. 1 to 3 Hours.**

May be repeated for a maximum of 6 hours of credit. Individual investigation of special problems. Prerequisites: Junior standing, a 3.50 grade point average, and consent of the instructor.

**300 Media Systems. 3 Hours.**

The organization and operations of the media industries: history, structure, technology, production processes, and social environment of each medium in the communication industry. Prerequisites: Junior standing and Comm 200 and 201; or approval of the department.

**301 Communication Research. 3 Hours.**

Designs and measurements for conducting empirical analyses of communication activities in both laboratory and business settings. Prerequisites: At least 18 hours of course work in communication, including Comm 201, and approval of the department.

**304 Male-Female Communication. 3 Hours.**

Same as Gender and Women's Studies 304. Speech differences and universals across genders. Talk in male-female interaction. Communication in romantic relationships. Gender issues in work settings. Prerequisites: Comm 101 and 102 and 201 and 203; or approval of the department.



**306 Organizational Communication. 3 Hours.** 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. Prerequisites: Junior standing and Comm 201 and 315; or consent of the instructor.

**311 Interviewing in Communication. 3 Hours.** Study of the forms and principles of information-seeking interviews, with special attention to fact-finding and data-gathering missions. Prerequisite: Comm 102 and any two 200-level communication courses, or consent of the instructor.

**312 Argumentation. 3 Hours.** The theory of argumentation: analysis, reasoning, evidence, organization, refutation, delivery; historical and contemporary debates and argumentative discourse; practice in argumentative speaking. Prerequisites: Completion of English Composition requirement; and junior standing; and Comm 101 and 102 and 201; or approval of the department.

**313 Persuasion. 3 Hours.** Examination of the role of persuasion in today's society; the role of the person as a consumer and creator of persuasive messages. Emphasis on theory and practice. Prerequisites: Junior standing; and Comm 101 and 102 and 201; or approval of the department.

**314 Public Discourse Practice and Analysis. 3 Hours.** Theory and practice in writing manuscript speeches for presentations by leaders in government, business, and civic affairs. Prerequisites: Comm 101 and 313; or approval of the department.

**315 Group Communication. 3 Hours.** 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. Prerequisites: Comm 101 and 102 and 201; or approval of the department.

**316 Writing for the Electronic Media. 3 Hours.** General principles of broadcast writing. Practice in writing announcements, news, documentaries, and drama. Analysis of current formats and techniques. Prerequisites: Engl 161 and Comm 200 and Comm 201; or approval of the department.

**330 Mass Media and Popular Culture. 3 Hours.** A theoretical and analytical examination of the media and popular arts as cultural artifacts. Focus on form, content, design, and effects of cultural commodities. Prerequisites: Junior standing; and Comm 103 and 201; or approval of the department.

**404 Discourse Analysis. 3 Hours.** Nonverbal aspects of communication; rules of communication; speech acts; conversational coherences; acts and sequences in communication; marital communication patterns. Prerequisite: Comm 304 or 315 or 416 or approval of the department.

**410 Rhetorical Criticism. 3 Hours.** Analysis and evaluation of critical standards for rhetorical interpretation. Application of critical standards to contemporary rhetorical events. Prerequisites: Comm 312 and 313; or approval of the department.

**416 Conflict and Communication. 3 Hours.** Students learn to manage and resolve conflict in business, governmental, and community settings. Practical analysis of interpersonal and group conflict cases. Prerequisites: Comm 312 and 313 and 315; or approval of the department.

**430 Media, Information and Society. 3 Hours.** News as a distinct form of mass communication, involving social functions and significant questions about facts, truth, knowledge, and values. Prerequisites: Comm 103 and 200, or 300; or approval of the department.

**434 Global Communication Systems. 3 Hours.** Same as Latin American and Latino Studies 434. 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. Prerequisite: Comm 300 or approval of the department.

**454 Psychology of Language. 3 Hours.** Same as Linguistics 474 and Psychology 454. Introductory survey of methods, theory and research; linguistic foundations, history, and present status of the field. Prerequisite: Graduate standing or consent of the instructor.

**467 Public Opinion and Political Communication. 3 Hours.** Same as Political Science 467. 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. Prerequisite: POLS 200 or the equivalent or consent of the instructor.

**473 Organizations and Their Publics. 3 Hours.** 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. Prerequisites: Comm 201 and 306; or approval of the department.

**474 Internship. 3 to 8 Hours.** May be repeated for credit. Students may register for more than one section per term. Only 3 hours may be counted toward communication major requirements. Students work in an approved professional setting. Individual projects developed through conferences with a faculty member and a field supervisor. Prerequisites: 12 hours of upper-division courses in communication, with a 4.00 grade point average in those courses; recommendation of two faculty members and approval of the department obtained in the semester prior to internship.

**490 Communication, Culture, and Society. 3 Hours.** Same as Linguistics 490. Analysis of contrastive cultural paradigms (interethnic, gender, class) to develop student's awareness of own socialization and cultural orientation. Prerequisites: Comm 201 and 203 and at least two 300- or 400-level communication courses; or approval of the department.

**494 Special Topics in Communication. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Contemporary trends in the field of communication. Prerequisites: Comm 200 and 201 and consent of the instructor; or approval of the department.

**498 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. A maximum of 3 hours of credit may be applied toward the Major in Communication. Individual investigation of special problems (student-initiated or related to faculty research). May be used for special projects, such as interdisciplinary seminars. Prerequisites: Senior standing and approval of the department.

## Criminal Justice (CrJ)

**101 Introduction to the Justice System. 3 Hours.** 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.

**102 Foundations of Criminal Justice. 3 Hours.** 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.

**110 Legal Rights and Responsibilities. 3 Hours.** The historical evolution, philosophical justification and political context of human rights is examined. The balance between individual rights and social responsibility is analyzed.

**114 Race, Class, Gender and the Law. 3 Hours.** A review of criminological theories, organizational decision-making, and a consideration of contemporary criminal justice policies with specific attention to race, class, and gender.

**120 Crime and Society. 3 Hours.** Provides an introduction to theories of social deviance and control. The historical development, empirical basis, strengths, and limitations of various theories are analyzed.

**121 Violence in America. 3 Hours.** 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.

**200 Law in Society. 3 Hours.** Development of law and legal institutions from historical, comparative, and contemporary perspectives; interrelationships of law, custom, morality, and social change; the legal profession. Prerequisite: CrJ 101.

**210 Principles of Criminal Law. 3 Hours.** A survey of the basic principles of criminal law and procedure: proof of fact, act and intent, responsibility. Prerequisite: CrJ 101.

**220 Criminology. 3 Hours.** Same as Sociology 231. Introductory survey of the literature developed by criminologists in their study of crime in American society. Prerequisite: CrJ 101.

**240 Criminal Justice Organizations. 3 Hours.** Theories of complex organizations, organization behavior, and administration relating to criminal justice and other rule-applying agencies. Prerequisite: CrJ 101.

**261 Research Methods I. 3 Hours.** 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: CrJ 101.



- 262 Research Methods II. 3 Hours.** 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. Prerequisites: CrJ 261 and either Math 090 or 092 or 118.
- 301 Writing in the Discipline. 0 Hours.** Satisfactory/Unsatisfactory grade only This course will be used to identify the Writing-in-the-Discipline requirement. Prerequisites: Junior or senior standing; and approval of the Department.
- 303 Introduction to Forensic Science. 3 Hours.** 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. Prerequisites: Junior standing and major in either criminal justice or a natural sciences discipline; or consent of the instructor.
- 310 Substantive Criminal Law. 3 Hours.** 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. Prerequisites: CrJ 210 and one other 200-level criminal justice course.
- 311 Criminal Procedure. 3 Hours.** Legal problems associated with the investigation of crime, acquisition of evidence, commencement of adjudication, sentencing and appellate rights. Prerequisite: One 200-level criminal justice course.
- 343 African Americans and the Criminal Justice System. 3 Hours.** Same as African-American Studies 371 and Sociology 371. Examination of the status of African-Americans as offenders, victims, and personnel within the criminal justice system. Prerequisite: 9 hours of upper-division African-American studies, criminal justice, or sociology; or consent of the instructor.
- 345 Police in Society. 3 Hours.** The functions and organization of police/ investigative agencies, especially those on the local level, the nature of the experience of being a police officer. Prerequisites: CrJ 101 and 240 and one other 200-level criminal justice course; or consent of the instructor.
- 350 Introduction to the Criminal Courts. 3 Hours.** 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. Prerequisites: CrJ 101 and two 200-level criminal justice courses; or consent of the instructor.
- 355 Introduction to Corrections. 3 Hours.** A survey of American corrections from local jails to mega prisons; correctional field services; probation and parole and recent developments in alternatives to incarceration. Prerequisites: CrJ 101 and two 200-level criminal justice courses; or consent of the instructor.
- 361 Criminal Investigation. 3 Hours.** Methods for reconstructing criminal acts using information derived from people, physical evidence and records; scientific, organizational and legal considerations in conducting such inquiries. Prerequisites: CrJ 101 and two 200-level criminal justice courses; or consent of the instructor.
- 394 Senior Studies in Criminal Justice. 3 Hours.** The analysis and exposition of historical or contemporary issues in the justice field. Topics may vary from semester to semester. Prerequisite: Senior standing.
- 395 Internship. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Three hours may be counted toward the undergraduate major in criminal justice. 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 personnel of the agency. Prerequisites: Junior standing; and consent of the instructor; and preregistration in the department; and CrJ 200, 210, 220, 240, 261, 262; and one from among CrJ 345, 350, 355.
- 399 Independent Study. 2 to 8 Hours.** A maximum of 6 hours is permitted; exceptions must be approved by the Head of the Department. For criminal justice majors only. Independent study and research under the supervision of a faculty member, on a subject not covered in the regular curriculum. Prerequisites: CrJ 200, 210, 220, 240, 261, 262; one from among CrJ 345, 350, 355; and a 3.50 overall grade point average, and a 4.00 grade point average in criminal justice.
- 402 Trial Interaction. 3 Hours.** Same as Linguistics 402. Language use, culture, and law in the trial process. Analysis of qualitative methods applied to legal processes and change. Prerequisites: CrJ 261 and 350; or consent of the instructor.
- 404 Roman Law and the Civil Law Tradition. 3 Hours.** Same as History 404 and Classics 404. Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. Prerequisites: CrJ 200 or Hist 203 or consent of the instructor.
- 405 The Problem of Justice. 3 Hours.** Same as Political Science 405. Premodern and modern views of justice and their practical utility in analyzing legislative, executive, and judicial programs for enhancing or restricting justice. Prerequisites: CrJ 101, plus two 200-level courses in criminal justice or two 200-level courses in political science.
- 421 Juvenile Justice System. 3 Hours.** Theories of juvenile delinquency and rule-breaking; juvenile rights; organization and administration of the juvenile justice system in the U.S. Prerequisites: CrJ 210 and 220.
- 422 Victimization. 3 Hours.** 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. Prerequisites: CrJ 101 and two 200-level criminal justice courses.
- 423 Violence. 3 Hours.** Same as Anthropology 424. 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. Prerequisites: CrJ 101 and 200.
- 424 Gender, Crime, and Justice. 3 Hours.** Same as Gender and Women's Studies 424. 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. Prerequisites: CrJ 101 and 220; or consent of the instructor.
- 435 Organized and White Collar Crime in the United States. 3 Hours.** Analysis and evaluation of organized crime, including its public perception; sociological, political, and economic impacts as well as past and present enforcement strategies. Prerequisite: Two 200-level criminal justice courses.
- 442 Comparative Criminal Justice Institutions. 3 Hours.** Comparative study of law, jurisprudence, enforcement, and punishment in Western and non-Western societies, including civil law, common law, and Islamic systems. Prerequisite: Two 200-level criminal justice courses.
- 456 Community Corrections. 3 Hours.** History, processes, and functions of programs organized for sanctioning offenders in community settings, such as probation, parole, halfway houses, restitution, community service, home confinement. Prerequisites: CrJ 350 or 355, plus one 200-level criminal justice course.
- 480 Application of Science to the Law. 4 Hours.** Same as Biopharmaceutical Sciences 480. 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. Prerequisites: CrJ 210 and 260; or graduate standing.
- 491 Topics in Rule Breaking. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Content of course varies, addressing major issues. Prerequisite: Six 200- or 300-level criminal justice courses.
- 492 Topics in Rule Application. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Content of course varies, addressing major issues. Prerequisite: Six 200- or 300-level criminal justice courses.

## Earth and Environmental Sciences (EaES)

- 101 Exploring the Earth's Surface. 5 Hours.** May not be taken for credit by students with credit in Earth and Environmental Sciences 107. Field trip required at a nominal fee. 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.
- 102 Exploring the Earth's Interior. 5 Hours.** Field trip required at a nominal fee. 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.
- 107 The Changing Earth. 5 Hours.** May not be taken for credit by students with credit or concurrent registration in Earth and Environmental Sciences 101 or 102. Two Saturday field trips required at a nominal fee. 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.

- 109 The Restless Earth. 4 Hours.** May not be taken for credit by students with credit in Earth and Environmental Sciences 102. 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.
- 180 Principles of the Earth and Environmental Sciences. 1 Hour.** May be taken twice, each time with concurrent registration in Earth and Environmental Sciences 101 or 107, and 102. Students may register for more than one section per term. For honors students. Prerequisite: Concurrent registration in EaES 101, 107, or 102.
- 200 Field Work in Missouri. 2 Hours.** Field observations in the St. Francois Mountains and vicinity, southeast Missouri. Three two-hour meetings and one-week field trip during the spring vacation. Credit is given upon completion of a satisfactory written report. Prerequisites: EaES 101, or credit or concurrent registration in EaES 102 or 107.
- 220 Mineralogy. 4 Hours.** 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: Credit or concurrent registration in Chem 112.
- 285 Environmental Geology. 4 Hours.** Saturday field trip required at a nominal fee. 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. Prerequisite: EaES 101 or 107 or consent of the instructor.
- 310 Introduction to Geochemistry. 4 Hours.** Principles of geochemical reactions. Chemical evolution of the earth's crust, hydrosphere, the atmosphere. Biogeochemical evolution. Implications for global change. Prerequisite: EaES 220 or consent of the instructor.
- 330 Introduction to Petrology. 4 Hours.** Igneous and metamorphic rock compositions, classification, rock-forming processes. Description and interpretation of thin-sections. Prerequisite: EaES 220.
- 350 Principles of Sedimentology and Stratigraphy. 4 Hours.** 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 a nominal fee. Prerequisite: EaES 220 or consent of the instructor.
- 360 Introduction to Paleontology. 4 Hours.** Same as Biological Sciences 360. The morphology, ecology, and relationships of fossil organisms. Basic principles of paleontology, including evolution, paleoecology and functional morphology. Prerequisite: EaES 102 or one year of biological sciences.
- 390 Current Topics in Earth and Environmental Sciences. 2 Hours.** Seminar on current issues in earth and environmental sciences. Introduction to reading, interpretation, and writing of scientific papers. Prerequisite: Completion of at least one 200-level course in earth and environmental sciences.
- 396 Independent Research. 2 to 8 Hours.** May be repeated for credit. Students may register for more than one section per term. Students who wish to register must submit a written statement from the instructor with whom they wish to work to the department head. Independent research and a resulting undergraduate thesis are required for graduation with departmental distinction. Prerequisite: Consent of the instructor.
- 400 Field Experience in Earth Sciences. 6 Hours.** 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. Prerequisites: EaES 330 and 440 or consent of the instructor.
- 410 Geochemistry. 4 Hours.** 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: Chem 114 or consent of the instructor.
- 415 Environmental Geochemistry. 4 Hours.** Chemical reactions in natural environments; surface chemistry of metals and organic compounds. Clay minerals in soils and sediments. Chemistry of contaminant remediation. Prerequisite: EaES 310 or consent of the instructor.
- 416 Organic Geochemistry. 4 Hours.** 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. Prerequisites: Chem 114 or 130, and EaES 350; or consent of the instructor.
- 422 Crystal Chemistry of Rock-Forming Minerals. 4 Hours.** The crystal chemistry, chemistry, phase equilibria, and properties of materials and minerals. Prerequisite: EaES 220 or consent of the instructor.
- 424 X-Ray Crystallography. 4 Hours.** Introduction to the use of diffraction techniques for the identification and characterization of materials. Prerequisite: Consent of the instructor.
- 430 Igneous Petrology. 4 Hours.** Discussion of petrogenesis, application of thermodynamic principles to the crystallization of rocks. Prerequisites: Chem 114 and EaES 330.
- 440 Structural Geology and Tectonics. 4 Hours.** 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. Prerequisites: EaES 102 and Math 180, and either Phys 101 or 141 or consent of the instructor.
- 444 Geophysics. 4 Hours.** Introduction to basic principles of geophysics applicable for environmental problems and the solid earth including magnetics, electric, seismic, gravity, geophysical well logging, radioactivity and heat flow. Prerequisites: EaES 440, and Math 181, and either Phys 102 or 142 or consent of the instructor.
- 448 Plate Tectonics. 4 Hours.** Basic concepts and recent developments including plate kinematics, marine magnetics and paleomagnetism, evolution of oceanic lithosphere, subduction zones and passive margins. Prerequisites: Math 180 and either Phys 102 or 142, or consent of the instructor.
- 455 Stratigraphy. 4 Hours.** Field trips required at a nominal fee. 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. Prerequisite: EaES 350; or consent of the instructor.
- 466 Principles of Paleontology. 4 Hours.** Same as Biological Sciences 466. Theory and methods of evolutionary paleobiology; includes paleoecology, functional morphology, and major features of organic evolution. Prerequisite: EaES 360 or consent of the instructor.
- 470 Surficial Processes. 4 Hours.** Quantitative analysis of the mechanics, rates, and distribution of physical processes that modify Earth's and other planets' surfaces. Introduction to field, theoretical, and modeling approaches. Prerequisites: EaES 101 and Math 181.
- 475 Hydrology/Hydrogeology. 4 Hours.** Field trip required at a nominal fee. 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. Prerequisites: EaES 101 or 107 and Math 181 or consent of the instructor.
- 480 Statistical Methods in Earth and Environmental Sciences. 4 Hours.** Techniques of probability and data analysis as applied to problems in environmental sciences. Sampling, statistical inference, descriptive statistics, multivariate methods, time series analysis. Prerequisite: Consent of the instructor.
- 488 Instrumental Analysis. 3 Hours.** Scanning electron microscopy with energy-dispersive system. DC plasma analysis. Prerequisites: Chem 114 and EaES 220 or consent of the instructor.
- 492 Internship in the Earth and Environmental Sciences. 1 Hour.** May be repeated for credit with the approval of the department. A combined maximum of 6 hours of credit in Earth and Environmental Sciences 492 and 396 may be applied toward the degree. Satisfactory/Unsatisfactory grade only. Off-campus participation in governmental or private-sector training program. Credit is contingent on submission of a final report. Prerequisite: EaES 350.
- 494 Current Topics in Earth and Environmental Sciences. 4 Hours.** Discussion of current research topics in earth and environmental sciences. Prerequisite: Consent of the instructor. Senior standing and 12 hours of advanced courses in earth and environmental sciences are recommended.

## English (Engl)

- 101 Understanding Literature. 3 Hours.** Reading and analysis of texts from a variety of literary forms and periods. Special attention to methods for determining literary meaning. Prerequisite: Satisfaction of the composition requirement or concurrent registration in Engl 161 or 171.
- 102 Introduction to Film Narrative. 3 Hours.** Representative selections from a variety of periods and forms. Development of analytical skills in the reading of film.

- 103 English and American Poetry. 3 Hours.** Reading and analysis of a representative selection from a variety of periods and forms in poetry.
- 104 English and American Drama. 3 Hours.** Reading and analysis of representative selections from a variety of periods and forms in drama.
- 105 English and American Fiction. 3 Hours.** Reading and analysis of representative selections from a variety of periods and forms in fiction.
- 106 English and American Prose. 3 Hours.** Reading and analysis of representative selections from a variety of periods and forms of nonfiction prose.
- 107 Introduction to Shakespeare. 3 Hours.** Introductory survey of Shakespeare's major plays and poems.
- 108 British Literature and British Culture. 3 Hours.** Analysis of novels, plays and poems from 1800 to the present that reflect the distinctive characteristics of British culture.
- 109 American Literature and American Culture. 3 Hours.** May not be repeated for credit. Analysis of interconnections between American literature and American culture. Content varies.
- 110 English and American Popular Genres. 3 Hours.** Introduction to the textual analysis of pulp literature, film, television, advertising, and other popular discourses.
- 111 Women and Literature. 3 Hours.** Same as Gender and Women's Studies 111. Introduction to reading English and American literature with a focus on gender, genre, and women's roles.
- 112 Introduction to Native American Literatures. 3 Hours.** Same as Native American Studies 112. An introduction to the oral and written literatures of American Indians.
- 113 Introduction to Multiethnic Literatures in the United States. 3 Hours.** An introduction to the literatures of racial and ethnic groups in the United States.
- 114 Introduction to Colonial and Postcolonial Literature. 3 Hours.** An introduction to the literature in English most directly representative of the historical processes of colonialism and decolonization that have shaped the modern world.
- 115 Understanding the Bible as Literature. 3 Hours.** Same as Jewish Studies 115 and Religious Studies 115. 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.
- 117 Introduction to Gender, Sexuality and Literature. 3 Hours.** Same as Gender and Women's Studies 117. Introduction to the literary texts in Western and other traditions that explore issues of gender and sexuality.
- 118 Introduction to African-American Literature, 1760-1910. 3 Hours.** Same as African-American Studies 110. Comprehensive survey, 1760-1910, from earliest folk roots to formal literary tradition.
- 119 Introduction to African-American Literature since 1910. 3 Hours.** Same as African-American Studies 111. Comprehensive survey of African-American literature from 1910 to the present.
- 120 Film and Culture. 3 Hours.** Analysis of representative works that reflect the relationship between cinema and its cultural context.
- 121 Introduction to Moving Image Arts. 3 Hours.** Examination and interpretation of moving image texts such as film, television, and new digital media.
- 150 Introduction to English Composition for Non-Native Speakers of English. 3 Hours.** May be repeated for a maximum of 6 hours of credit. No graduation credit given for English 150 unless the Department recommends a waiver of English 160 based on final course assessment. If a waiver is granted, student receives 3 hours of graduation credit for English 150 and placement into English 161. Introduction to written exposition, argumentation, and persuasion for non-native speakers of English. Prerequisite: Eligibility determined by performance on the Department placement test.
- 152 Introduction to English Composition. 3 Hours.** May be repeated for a maximum of 6 hours of credit. No graduation credit given for English 152 unless the Department recommends a waiver of English 160 based on the final course assessment. If a waiver is granted, student receives 3 hours of graduation credit for English 152 and placement into English 161. Introduction to written exposition, argumentation, and persuasion. Prerequisite: Eligibility determined by performance on the Department placement test.
- 160 English Composition I. 3 Hours.** Instruction and practice in written exposition, argumentation, and persuasion. Based on their composition placement test scores, some students may be required to complete one or two additional hours each week of tutorial instruction. Prerequisite: Completion of Composition Placement Test.
- 161 English Composition II. 3 Hours.** Continuation of English 160, with instruction in the writing of papers reporting academic research. Sections are titled according to topics. Prerequisite: Engl 160 or the equivalent.
- 170 Freshman Colloquium I. 3 Hours.** Reading and analysis of major texts in the Western intellectual tradition. Extensive practice in expository writing. Grade of C or better in English 170 permits waiver of English 160. Prerequisites: ACT English subscore of 27 and approval of Honors College.
- 171 Freshman Colloquium II. 3 Hours.** 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 English 171 permits waiver of English 161. Prerequisite: Engl 170 or an ACT English subscore of 29.
- 200 Practical English Grammar. 3 Hours.** Students will be introduced to the basic grammatical structures of English and basic semantics, that is, how small changes in structure can affect the meaning of sentences.
- 201 Introduction to the Writing of Nonfiction Prose. 3 Hours.** Basic techniques for writing essays, articles, reviews, and other forms of nonfiction. Prerequisite: Engl 161 or the equivalent.
- 202 Writing for the Media. 3 Hours.** Analysis of and practice in media writing, including news, feature, and opinion writing. Prerequisite: Engl 201 or the equivalent.
- 210 Introduction to the Writing of Poetry. 3 Hours.** Practice in writing poetry, beginning with exercises and published models, with increasing emphasis on the students' poetry in class. Workshop format. Prerequisite: Engl 161 or the equivalent.
- 212 Introduction to the Writing of Fiction. 3 Hours.** Practice in the writing of fiction; emphasis on analysis of student work and published examples. Prerequisite: Engl 161 or the equivalent.
- 214 Topics in Writing. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Analysis of and practice in a particular form of writing. Content varies. Prerequisite: Engl 201 or the equivalent.
- 220 English Composition Practice. 3 Hours.** Primarily for juniors and seniors. Improvement of writing abilities, with emphasis on review of mechanics, sentence structure, organization, and development. Prerequisite: Engl 161 or the equivalent.
- 221 Advanced English Composition. 3 Hours.** Study and practice in advanced techniques of expository writing on student-selected topics. Sections limited to 15 students. Prerequisite: Grade of A or B in Engl 161 or the equivalent or consent of the instructor.
- 222 Tutoring in the Writing Center. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students learn principles of effective writing by tutoring other students under the supervision of the Writing Center staff. Emphasis on theories of writing. Prerequisites: Grade of A or B in Engl 150 or 151 or 160 and 161; and consent of the Writing Center director.
- 230 Honors Colloquium. 1 Hour.** May be repeated for a maximum of 4 hours of credit. Satisfactory/unsatisfactory grade only. Topics vary. Prerequisite: Membership in the Honors College.
- 232 History of Film I: 1890 to World War II. 3 Hours.** Same as Art History 232. History of film from its beginnings in the 1890s up to World War II.
- 233 History of Film II: World War II to the Present. 3 Hours.** Same as Art History 233. History of film from World War II to contemporary movements in world cinema.
- 241 History of English Literature I: Beginnings to 1700. 3 Hours.** A survey of significant literary works, from a number of critical perspectives. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101.
- 242 History of English Literature II: 1700 to 1900. 3 Hours.** A survey of significant literary works, from a number of critical perspectives. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101.
- 243 History of American Literature: Beginnings to 1914. 3 Hours.** An historical survey of works by major authors, from the beginnings through Henry James. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101.
- 250 Literature and Popular Culture. 3 Hours.** May not be repeated for credit. For English majors and nonmajors. The relationship between a society's literature and its various forms of popular culture. Content varies. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101.



- 251 Literature and Politics. 3 Hours.** Same as Political Science 219. May not be repeated for credit. The portrayal of political ideas and problems in literature. Content varies. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101, or consent of the instructor.
- 252 The City in Literature. 3 Hours.** May not be repeated for credit. For English majors and non-majors. Urban experience as it is reflected in literature. Content varies. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101.
- 253 American Literature: 1900 to the Present. 3 Hours.** An historical survey of American fiction, poetry, and drama, from the beginning of the century. Prerequisite: 6 hours of English from among Engl 101-113, including Engl 101.
- 260 Comparative Black Literatures. 3 Hours.** Same as African-American Studies 250. The “black” experience through the study and analysis of selected works of African-American, African-Caribbean, and African literature and related criticism. Prerequisite: Six hours in African-American studies or English.
- 274 Caribbean Cultural and Literary Studies. 3 Hours.** Same as African-American Studies 274 and Latin American and Latino Studies 274. An integrated view of Spanish, French, English, and Dutch Caribbean culture and literature placing similarities and differences in historical, political, and ideological contexts.
- 295 Latino Literary Studies. 3 Hours.** Same as Latin American and Latino Studies 295. Major trends, genres, works, themes, and writers related to Latino history and culture, mainstream and minority U.S., Latin American and third world literatures.
- 300 Introduction to Literary Theory and Criticism. 3 Hours.** Theory and practice of literary criticism: principles of scholarship; issues of interpretation, form, genre, reception and canon; exercises in close reading. Prerequisite: 6 hours of English from Engl 241, 242, 243 sequence.
- 302 Studies in the Moving Image. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a topic or movement in film with other media forms. Prerequisite: Engl 102 or consent of the instructor.
- 303 Studies in Poetry. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Studies in the traditions of English and American poetry. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 304 Studies in Drama. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of an author, topic, or movement. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 305 Studies in Fiction. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a topic or a movement in fiction. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 306 Studies in Nonfiction Prose. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a topic or a movement in nonfiction prose literature. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 307 Chaucer’s Poetry I: The Canterbury Tales. 3 Hours.** A detailed study of the language and art of *The Canterbury Tales*. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 310 Writing for Corporate Organizations. 3 Hours.** Analysis of and practice in various forms of writing used in business corporations and other organizations. Prerequisite: Engl 161 or the equivalent.
- 313 Major Plays of Shakespeare. 3 Hours.** Major comedies, histories, tragedies and romances; the development of Shakespeare’s career in relation to his theater and his society. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 350 The Harlem Renaissance. 3 Hours.** Same as African-American Studies 350. The intellectual, cultural, and artistic expressions among African-Americans from 1912 to 1933, with an emphasis on the literary texts and social history. Prerequisite: Six hours in African-American studies or English literature, or consent of the instructor.
- 351 Topics in Black Art and Literature. 3 Hours.** Same as African-American Studies 351. Study of art and/or literature in the context of the African diaspora. Topics vary. Prerequisite: AAST 100 or Engl 118 or 119 or consent of the instructor.
- 355 Studies in African-American Poetry. 3 Hours.** Same as African-American Studies 355. Development of African-American poetry from Phyllis Wheatley to Rita Dove. Emphasis on major poets: Baraka, Brooks, Dove, Dunbar, Hayden, Hughes, Tolson, and Wheatley. Prerequisite: Engl 103 or 118 or 119.
- 357 Studies in African-American Literary and Cultural Genres. 3 Hours.** Same as African-American Studies 357. Consideration of the development of specific African-American literary, musical, artistic genres with specific attention paid to historical, aesthetic, political, and social context. Topics vary. Prerequisite: Junior standing or consent of the instructor.
- 358 Colonial and Postcolonial Literature. 3 Hours.** Studies a range of works produced in the context of nineteenth- and twentieth-century colonialism, as well as from the postcolonial period. Prerequisite: 6 hours of English from Engl 241-243.
- 360 Advanced Seminar in African American Literature. 3 Hours.** Same as African American Studies 360. Does not satisfy the Writing-in-the Discipline requirement for English majors. Advanced study of theoretical approaches to African-American literature, with an emphasis on major paradigms developed to explain literary expression within the context of African-American culture. Prerequisite: Junior standing or consent of the instructor.
- 377 Drama from the Beginning to the Modern Period. 3 Hours.** Representative periods of Western drama from the ancient Greeks to the start of the modern period. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 378 Modern Drama I: 1870 to 1920. 3 Hours.** Representative selections: major emphasis on Ibsen, Strindberg, Shaw, and Chekhov. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 379 Modern Drama II: 1920 to the Present. 3 Hours.** Representative selections of Pirandello, Brecht, O’Neill, O’Casey, Lorca, Beckett, Ionesco, Genet, Pinter, Williams, and others. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 380 Introduction to Theories of Writing. 3 Hours.** Content varies. Study of theoretical statements on writing, with attention to epistemology, cognition, grammar, cultural variation, ideology, as elements of writing. Prerequisite: Engl 161.
- 395 Topics in English and American Literature. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a topic, genre, or movement. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 398 English Honors Seminar. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of an author, topic, movement, or genre. Prerequisite: Admission to the honors program in English and approval of the Department.
- 399 Independent Study in English. 1 to 3 Hours.** May be repeated for a maximum of 3 hours of credit. 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. Topics for English 399 should not duplicate work done in other English courses. Prerequisites: Senior standing and consent of the instructor.
- 400 History of the English Language. 3 Hours.** 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. Prerequisite: Senior standing or 9 hours of English or consent of the instructor.
- 401 Modern English. 3 Hours.** Critical study of traditional, structural, and generative-transformational grammatical descriptions, language variation, and lexicology. Prerequisite: Senior standing or 9 hours of English or consent of the instructor.
- 402 Rhetoric. 3 Hours.** Theories of rhetoric. Relationships of rhetoric to linguistics, literary criticism, philosophy, and psychology. Readings in classical, renaissance, eighteenth-century, and modern theories. Prerequisite: Senior standing or 9 hours of English or consent of the instructor.
- 403 Introduction to Old English. 3 Hours.** The elements of Old English grammar and readings from the literature of England before the Norman Conquest. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 404 Beowulf. 3 Hours.** A detailed explication of the poem. Prerequisite: Engl 403 or the equivalent.
- 406 Medieval Drama. 3 Hours.** English drama from its liturgical beginnings in the tenth century to the advent of humanist drama in the early sixteenth century. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.



- 407 Chaucer's Poetry II. 3 Hours.** A Study of *Troilus and Creseide*, *The Parliament of Fowls*, *The Book of the Duchess*, and others of Chaucer's poems, in the context of the culture and language of the late Middle Ages. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 409 History of Rhetorical Theory: Antiquity Through the Middle Ages. 3 Hours.** Representative texts and figures such as Plato, Aristotle, Cicero, Quintilian, Augustine; consideration of historical factors that influence interpretation and practical applications of rhetorical theory. Prerequisite: Engl 402 or consent of the instructor.
- 410 English Literature of the Sixteenth Century. 3 Hours.** Literature of the age of Henry VIII and Elizabeth I; emphasis on More, Wyatt, Sidney, Spenser, and Shakespeare. Prerequisite: 6 hours in English from Engl 241, 242, 243, 300; or consent of the instructor.
- 411 English Literature of the Seventeenth Century. 3 Hours.** English literature from 1600-1674, with particular attention to the literary and social movements of the early decades and the Revolution. Emphasis on Donne, Jonson, Herbert, Hobbes, Marvell, and Milton. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 412 Renaissance Drama, Exclusive of Shakespeare. 3 Hours.** Tudor and Stuart drama, with emphasis on Marlowe, Jonson, and Webster. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 413 Studies in Shakespeare. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a genre, topic or period in Shakespeare's work. Prerequisite: Engl 313 and 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 414 Studies in Renaissance Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a major author, topic or genre of the sixteenth and seventeenth centuries. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 415 Milton. 3 Hours.** Same as Religious Studies 415. Survey of Milton's poetry and prose, with emphasis on *Paradise Lost*. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 418 History of Rhetorical Theory: Renaissance Through the Nineteenth Century. 3 Hours.** Representative movements such as Ramistic, neoclassical, Romantic, belletristic, and elocutionary rhetorics; consideration of historical factors that influence interpretation and practical applications of rhetorical theory. Prerequisites: Engl 402 or 409 or consent of the instructor.
- 420 English Literature of the Restoration and the Eighteenth Century. 3 Hours.** Survey of significant works from 1660-1789, with emphasis on Dryden, Pope, Swift, and Johnson, and of significant literary trends. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 423 Restoration and Eighteenth-Century Drama. 3 Hours.** Representative plays and dramatic criticism from Dryden and Etherege to Goldsmith and Sheridan. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 424 Eighteenth-Century Novel. 3 Hours.** Representative novels by Defoe, Richardson, Fielding, Smollett, Sterne, and others, including the Gothic novel. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 425 Topics in Restoration and Eighteenth-Century Literature. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of an author or authors, theme, genre, or movement. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 430 British Romantic Literature. 3 Hours.** Literature of Britain, 1789-1932, with emphasis on poetry and nonfiction prose of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 431 Topics in British Romantic Literature. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of an author or authors, theme, or genre; content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 432 Victorian Literature. 3 Hours.** Poetry and nonfiction prose of the Victorian era, with emphasis on Tennyson, Browning, Arnold, Carlyle, and selected later Victorian writers exclusive of the novelists. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 434 Topics in Victorian Literature. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Major Victorian authors, such as Arnold, Browning, Carlyle, Dickens, Eliot, Tennyson, Thackeray, or study of a topic, movement, or genre. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 435 Nineteenth-Century British Fiction. 3 Hours.** Representative selections: emphasis on Austen, Scott, Dickens, Thackeray, Trollope, Eliot, Meredith, Butler, Hardy. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 436 Nineteenth-Century British Nonfictional Prose. 3 Hours.** Representative selections: the prose of Wordsworth and Coleridge, other representative essayists such as Hazlitt, DeQuincy, Lamb, Carlyle, Mill Ruskin, Newman, Arnold, Pater. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 450 Modern British Literature: 1890 to 1950. 3 Hours.** Representative selections, with emphasis on poetry and fiction of the period. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 451 Contemporary British Literature. 3 Hours.** Representative selections, with emphasis on poetry and fiction of the period. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 452 Developments in Contemporary Fiction. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a topic, movement, or genre. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 453 Developments in Contemporary Poetry. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a topic, movement, or genre. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 454 Twentieth-Century Rhetorical Theory. 3 Hours.** Survey of perspectives that comprise the interdisciplinary modern understanding of rhetoric; readings in language, philosophy, social science, literary theory, composition theory, reading theory. Prerequisite: Engl 402 or 418 or consent of the instructor.
- 455 Topics in Literature: 1900 to the Present. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a major author, topic, movement, or genre of literature in English. Content varies. Prerequisite: Senior standing or 6 hours of English or consent of the instructor.
- 456 Contemporary Literature in English. 3 Hours.** Selection of readings designed to provide a global perspective on literature in English from various parts of the world. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 457 Topics in Modern Drama. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of an author, topic or movement. Content varies. Prerequisite: Senior standing.
- 458 Postcolonial Literature. 3 Hours.** Literature in English written in the context of the dismantling of colonial empires and the decolonization of indigenous people during the latter half of the twentieth century. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 460 Genres in American Literature Through 1914. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Concentration on a single genre, such as poetry, the novel, the short story, and nonfiction prose. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 464 Modern American Literature: 1900 to 1950. 3 Hours.** Representative selections, with emphasis on poetry and fiction of the period. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 465 Contemporary American Literature: 1950 to the Present. 3 Hours.** Representative selections with the emphasis on poetry and fiction of the period. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 466 Major Authors in American Literature Through 1914. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Analysis of works by a single author, such as Hawthorne, Melville, Whitman, Dickinson, James, Twain, Dreiser. Content varies. Prerequisites: Engl 243 and 3 hours from Engl 241, 242, 300; or consent of the instructor.

- 467 Periods and Movements in American Literature Through 1914. 3 Hours.** May be repeated for a maximum of 6 hours of credit. A single period, such as Early American literature or The Gilded Age or a single movement, such as Puritanism, Transcendentalism, or Naturalism. Prerequisites: Engl 243 and 3 hours from Engl 241, 242, 300; or consent of the instructor.
- 468 Topics in American Literature to 1914. 3 Hours.** May be repeated for a maximum of 6 hours of credit. A single topic, such as the idea of success in American literature, or the literature of the Civil War, or landscape in American literature and painting. Prerequisites: Engl 243 and 3 hours from Engl 241, 242, 300; or consent of the instructor.
- 469 Women's Literary Traditions. 3 Hours.** Same as Gender and Women's Studies 469. An exploration of issues such as the female aesthetic; women's popular literature; factors that enable creativity; differences of race and class. Prerequisite: Junior or graduate standing or consent of the instructor.
- 470 Studies in Multiethnic Literatures in the United States. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Studies in the literatures of American racial and ethnic groups. Content varies. Prerequisite: Senior standing or 6 hours of English, African-American studies, Latin American studies, or women's studies.
- 471 Studies in Native American Literatures. 3 Hours.** Same as Native American Studies 471. May be repeated for a maximum of 6 hours of credit. The history and development of literature by and about American Indians. Content varies. Prerequisite: Senior standing or 6 hours of English, African-American studies, or Latin American and Latino studies.
- 472 Women and Film. 3 Hours.** Same as Art History 434 and Gender and Women's Studies 472. Roles and representations of women in classical Hollywood, European art, and independent feminist cinemas. Prerequisite: Engl 102, or 232 or 233; or consent of the instructor.
- 473 Topics in African-American Literature. 3 Hours.** Same as African-American Studies 490. May be repeated for credit. Students may register for more than one section per term. African-American literature and culture for students with significant background in the field. Topics vary. Prerequisite: Engl 118 or 119 or 260 or consent of the instructor.
- 474 Studies in Popular Culture and Literature. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a topic or genre such as the American 1930s or science fiction; critical approaches to the study of popular literature and culture. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 475 History of Literary Criticism. 3 Hours.** Readings drawn from the entire range of the Western literary tradition from Plato to the present that provide the foundation necessary to understand the history of literary criticism. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 476 Studies in the History of Literary Criticism. 3 Hours.** Study of a topic, movement, or author. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 477 Studies in Literary Theory. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a topic or movement. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 478 The Bible as Literature. 3 Hours.** Same as Jewish Studies 478 and Religious Studies 478. 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. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 479 Religion and Literature. 3 Hours.** Same as Religious Studies 479. Literary works considered in the light of several religious traditions. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 480 Reading Black Women Writing. 3 Hours.** Same as African-American Studies 470 and Gender and Women's Studies 470. Examines inscriptions of race, gender, class, and sexuality as they shape the literary and critical practices of the nineteenth- and twentieth-century black women writers. Prerequisite: Engl 118 or 119 or 260 or consent of the instructor.
- 481 Teaching of English. 3 Hours.** All students in the teacher education program must take this course in the term preceding their student teaching. Theory and practice; emphasis on current approaches to language and literature. Prerequisite: Senior standing or 9 hours of English or consent of the instructor.
- 482 Campus Writing Consultants. 4 Hours.** 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: Senior standing or 9 hours of English and consent of the instructor. Students must obtain override from the Writing Center.
- 483 Studies in Language and Rhetoric. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a particular topic or movement in language or rhetoric. Content varies. Prerequisite: Senior standing or consent of the instructor.
- 484 Studies in Language and Cognition. 3 Hours.** Examination of relationships among theories of language structure, cognition, and discourse, with applications of such theories to the writing process. Prerequisite: Engl 401 or consent of the instructor.
- 485 Studies in the English Language and Linguistics. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Study of a topic such as language diversity and literacy, theories of grammar, literacy in society, ethnicity, and language. Content varies. Prerequisite: Senior standing or 9 hours of English or consent of the instructor.
- 486 Studies in Teaching Rhetoric and Composition. 3 Hours.** Rhetoric and composition pedagogy. Study of a topic. Content varies. Prerequisite: Senior standing or 9 hours of English or consent of the instructor.
- 490 Advanced Writing of Poetry. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Advanced work on poetic techniques and practices; emphasis on analysis of student work, using published examples; particular attention to individual student development. Prerequisite: Engl 210 or the equivalent, or consent of the instructor.
- 491 Advanced Writing of Fiction. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Advanced practice; emphasis on analysis of student work and published examples. Prerequisite: Engl 212 or the equivalent, or consent of the instructor.
- 492 Advanced Writing of Nonfiction Prose. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Advanced practice in writing essays, articles, reviews, or other forms of nonfiction prose. Content varies. Prerequisite: Engl 201 or consent of the instructor.
- 493 Internship in Nonfiction Writing. 4 Hours.** Credit is not given for English 493 if the student has credit in English 593. May be repeated once for a maximum of 8 hours of credit, 4 of which may be counted toward either the undergraduate major in English or a graduate degree in English. Individual projects in approved professional setting to practice writing skills at an advanced level. Prerequisites: 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 by LAS CO-OP.
- 494 Topics in the Teaching of English. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Study of a topic in literature, composition, and/or pedagogy. The content varies with each offering. Prerequisite: Consent of the instructor.
- 495 Playwriting. 3 Hours.** Same as Theatre 423. The development of scripts for stage performance. Prerequisites: Junior standing or above; and approval of the department and submission and approval of a playwriting sample or dialog-centered fiction prior to registration.
- 496 Studies in Modes, Influences, and Movements. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Study of a particular subject in literature. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 497 Backgrounds to English and American Literature. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Areas of mythology, mythography, the Bible and major works of literature important to an understanding of English and American literature. Content varies. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.
- 498 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. Satisfactory/Unsatisfactory grade only. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**499 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. Satisfactory/Unsatisfactory grade only. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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 Equivalent Hours. 0 Academic Hours.** No graduation credit. Instruction in basic grammar and writing for ESL students. Focus on sentence structure and paragraph development. Prerequisite: Placement determined by English Placement Exam administered by the University Testing Service.

**060 English as a Second Language Composition II. 4 Equivalent Hours. 0 Academic Hours.** No graduation credit. Basic writing for ESL students. Focus on multi-paragraph essays. Prerequisite: ESL 050 or placement by English Placement Exam administered by the University Testing Service.

**401 Teaching Methods for International Teaching Assistants. 1 to 3 Hours.** No graduation credit. Satisfactory/unsatisfactory grade only. Basic communication and presentation skills for international teaching assistants. The culture of the American college classroom. Prerequisite: Score of 150 on the Test of Spoken English (TSE or Speak Test) and consent of the instructor.

## French (Fr)

**101 Elementary French I. 4 Hours.** Two additional half hours each week in the language laboratory. For students who have not studied French or placement as determined by test score. Introduction to French language and culture. Intensive practice in speaking, listening, reading, and writing.

**102 Elementary French II. 4 Hours.** Two additional half hours each week in the language laboratory. Continuation of introduction to French language and culture. Intensive practice in speaking, listening, reading, and writing. Prerequisite: A grade of C or better in Fr 101 or the equivalent as determined by test score.

**103 Intermediate French I. 4 Hours.** Two additional half hours each week in the language laboratory. Reading of modern authors, syntax and composition, conversational practice and small-group intensive practice. Prerequisite: Fr 102 or the equivalent as determined by test score

**104 Intermediate French II. 4 Hours.** Two additional half hours each week in the language laboratory. Intermediate language and culture. Reading of modern authors, syntax and composition, conversational practice; small-group intensive practice. Prerequisite: Fr 103 or the equivalent as determined by test score.

**110 Intensive Elementary French. 4 Hours.** Four additional hours each week in the language laboratory. Equivalent to French 101 and 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. Prerequisite: Placement as determined by test score; or two or three years of high school Spanish, French, or Italian; or native speaker of Spanish.

**191 African and Caribbean Francophone Literature in Translation. 3 Hours.** Same as African-American Studies 191. An introduction to the Francophone literature of Africa and the Caribbean and to its historical and cultural contexts.

**196 Totalitarianism, Writing and Cinema. 3 Hours.** Same as Italian 196 and Spanish 196. Taught in English. Two additional hours for viewing films (every two weeks). 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. Prerequisite: Consent of the instructor.

**198 French Literature in Translation. 3 Hours.** Taught in English. May not be used for credit in the French major or minor. Students will study one aspect of French literature (a period or genre) in translation, focusing on critical thinking and literary analysis.

**200 Introduction to the Study of French Literature and Culture. 3 Hours.** Techniques and methods of literary and cultural analysis in French, with emphasis on close reading and writing of critical papers. Prerequisite: Proficiency in French or consent of the instructor.

**201 Introduction to French Literature I. 3 Hours.** 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: Fr 200 or consent of the instructor.

**202 Introduction to French Literature II. 3 Hours.** 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: Fr 200 or consent of the instructor.

**231 Conversation and Composition I. 3 Hours.** Development of skills in spoken and written French; conversational practice based on practical situations; advanced grammar review; free composition. Not open to native speakers except with approval of department. Prerequisite: Fr 104 or 4 years of high school French.

**232 Conversation and Composition II. 3 Hours.** Continuation of French 231. Not open to native speakers except with approval of department. Prerequisite: Fr 231.

**296 Independent Study. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. For majors and minors in French who wish to supplement regular courses or undertake individual study projects. Prerequisite: Approval of the department.

**301 Topics in French and Francophone Literature. 3 Hours.** Intensive study of a period, genre, or author within French or Francophone literature, with emphasis on literary analysis and critical writing. Prerequisite: Fr 201 and 202 or consent of the instructor.

**302 Topics in French and Francophone Culture. 3 Hours.** 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: Fr 201 and 202 or consent of the instructor.

**307 Performing French Theater. 3 Hours.** Taught in French. Analysis, dramatic reading, and performance of scenes, acts, or an entire play in French. Focus on pronunciation, diction, fluency and performance. Prerequisites: Fr 201 and 202 and consent of the instructor.

**333 Oral and Written French I. 3 Hours.** Advanced oral and written work in grammar, vocabulary, oral and aural comprehension; discussions, corrective exercises in composition and pronunciation. Prerequisite: Fr 232 or consent of the instructor.

**334 Oral and Written French II. 3 Hours.** Continuation of French 333. Prerequisite: Fr 333 or consent of the instructor.

**370 Writing and Research in the Major. 1 Hour.** Same as Spanish 370 and Italian 370. Required for majors in the Department. Perfecting writing and expository skills in English. Prerequisite: Junior or senior standing and approval of the Department.

**375 French Abroad. 0 to 17 Hours.** May be repeated for a maximum of 34 hours of credit. Lectures, seminars, and practical work in French language, literature, and civilization in France. Prerequisites: Junior standing, consent of the department, Fr 201 and any two from Fr 202, 231, 232.

**378 Business French I. 3 Hours.** Survey of French institutions and various commercial and industrial fields; practice in writing social and business letters; conversational practice reflecting needs of workplace. Prerequisite: Fr 232.

**379 Business French II. 3 Hours.** Advanced business correspondence; translation of business texts from and into French; advanced oral work using specialized vocabularies in preparation for Paris Chamber of Commerce examination. Prerequisite: Fr 232.

**390 Senior Seminar: Topics in Research and Writing. 3 Hours.** Research and critical writing in French studies. Completion of independent research project on seminar topic. Satisfies the Writing-in-the-Discipline Requirement. Prerequisite: 24 hours completed in French at the 200-level or above or consent of the instructor.

**415 French Literature of the Middle Ages. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Introduction to major medieval genres (epic, romance, lyric, theater, allegory), works and authors, such as *La Chanson de Roland*, *Tristan*, *Chr̄eacute.tien de Troyes*, *Marie de France*, *Villon*. Prerequisite: Fr 301 or consent of the instructor.



**416 Topics in Sixteenth-Century French Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Intensive analysis of a Renaissance literature (Rabelais, Montaigne, Marguerite de Navarre, poetry of the Pleiade, etc.) in the cultural context of Humanism and the Reformation. Prerequisite: Fr 301 or consent of the instructor.

**417 Topics in Seventeenth-Century French Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Intensive study of Baroque and Classicism, with focus on major genres: theater (Corneille, Moliere, Racine); poetry (LaFontaine); prose (Pascal, de Seigne); novel (de Lafayette). Prerequisite: Fr 301 or consent of the instructor.

**418 Topics in Eighteenth-Century French Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Introduction to the literature and philosophy of the Enlightenment through representative authors (Rousseau, Diderot, etc.) and major genres (novel, essay, conte, theatre, etc.). Prerequisite: Fr 301 or consent of the instructor.

**419 Topics in Nineteenth-Century French Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. 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. Prerequisite: Fr 301 or consent of the instructor.

**420 Topics in Twentieth-Century French Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. 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. Prerequisite: Fr 301 or consent of the instructor.

**422 Francophone Novel. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Intensive analysis of a topic in Francophone literature. Scope includes Quebec, Africa, the Antilles, and French novelists outside of France. Prerequisite: Fr 301 or consent of the instructor.

**433 Advanced Oral and Written French. 3 Hours.** Exercises in French pronunciation; oral interpretation of different texts (familiar style and formal discourse); discussion of newspapers, magazine articles; practice in critical writing. Prerequisite: Fr 334 or consent of the instructor.

**440 Topics in French and Francophone Cinema. 3 Hours.** Taught in English. This course will examine a selection of French and Francophone films chosen around a period or theme or genre. Prerequisite: FR 302 or consent of the instructor.

**448 Foundations of Second Language Teaching. 3 Hours.** Same as Germanic Studies 448 and Spanish 448. Taught in English. 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. Prerequisite: Junior standing or above and consent of the instructor; and three courses at the 200 and 300-levels.

**449 Teaching Second Language Literacy and Cultural Awareness. 3 Hours.** Same as Germanic Studies 449 and Spanish 449. Taught in English. 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. Prerequisite: Junior standing or above and consent of the instructor.

**461 French Civilization I: Medieval and Renaissance. 3 Hours.** Lectures and discussion in French. Interdisciplinary approach to French civilization of the Middle Ages and the Renaissance including history, literature, the beaux-arts, and philosophy. Prerequisite: Fr 302 or consent of the instructor.

**462 French Civilization II: Seventeenth and Eighteenth Centuries. 3 Hours.** Lectures and discussion in French. Interdisciplinary approach to French civilization of the seventeenth and eighteenth centuries including history, literature, the beaux-arts, and philosophy. Prerequisite: Fr 302 or consent of the instructor.

**463 French Civilization III: Nineteenth and Twentieth Centuries. 3 Hours.** Lectures and discussion in French. An interdisciplinary approach to French civilization of the nineteenth and twentieth centuries, including history, literature, beaux-arts, and philosophy. Prerequisite: Fr 302 or consent of the instructor.

**464 Topics in French Civilization. 3 Hours.** May be repeated for a maximum of 9 hours of credit. 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. Prerequisite: Fr 302 or consent of the instructor.

**470 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**471 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

**481 Foreign Language Teaching Methodology. 3 Hours.** Same as Italian 460 and Spanish 450. Theories of second language learning. Evaluative procedures emphasizing oral proficiency testing, analysis of textbooks. Preparation and presentation of micro-lessons. Twenty hours of high school observation. Prerequisites: Junior standing and three courses at the 200 and 300 levels.

**496 Independent Study. 1 to 4 Hours.** 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. Prerequisites: French major with senior or graduate standing and approval of the department.

## Gender and Women's Studies (GWS)

*Note: Previous name and rubric: Women's Studies (WS).*

**101 American Women's Experience. 3 Hours.** 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.

**102 Women in International Perspective. 3 Hours.** 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.

**110 Economics of Gender. 3 Hours.** Same as Economics 110. 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.

**111 Women and Literature. 3 Hours.** Same as English 111. Introduction to reading English and American literature with a focus on gender, genre, and women's roles.

**117 Introduction to Gender, Sexuality and Literature. 3 Hours.** Same as English 117. Introduction to literary texts in Western and other traditions that explore issues of gender and sexuality.

**120 Study of Gender, Class, and Political Issues in German Texts. 3 Hours.** Same as Germanic Studies 120. Readings, lectures, and discussions in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Portrayal of relationships between men and women, classes, and political interest groups in German literature.

**192 From the Convent to the Streets: Latin American Women Writers in Translation. 3 Hours.** Same as Latin American and Latino Studies 192 and Spanish 192. Taught in English. No credit toward any major or minor program in Spanish. 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.

**194 Introductory Topics in Gender and Women's Studies. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Study of a problem, topic, or issue relevant to the interdisciplinary area of gender and women's studies. Content varies.

**201 Women in U.S. History and Culture. 3 Hours.** U.S. women's creativity and cultures in historical context from the nineteenth century through the present, including crafts, art, literature and popular culture. Prerequisite: GWS 101 or 102 or one humanities Course Distribution Credit course or consent of the instructor.



- 202 Comparative Social Movements. 3 Hours.** May be repeated for a maximum of 6 hours of credit. International social movements involving issues of women, gender, and sexuality. Content varies. Prerequisite: GWS 101 or 102 or consent of the instructor.
- 203 Sexuality and Community: Lesbians, Gay Men and Contemporary Society. 3 Hours.** 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.
- 214 Sex and Gender in World Cultures. 3 Hours.** Same as Anthropology 214. Comparative study of sex roles, gender identity, and male-female relationships, emphasizing biological, ecological, ideological and symbolic factors associated with cross-cultural variability. Prerequisite: 3 Hours of social sciences or consent of the instructor.
- 224 Gender and Society. 3 Hours.** Same as Sociology 224. Sociological perspectives on gender as a factor in social stratification; gender role acquisition, individual and social consequences of changing social definitions of gender roles. Prerequisite: Soc 100 or GWS 101 or GWS 102.
- 232 Sex Roles: Moral and Political Issues. 3 Hours.** Same as Philosophy 232. Philosophical inquiry into controversies surrounding the changing roles of men and women.
- 244 Women in Russian Literature. 3 Hours.** Same as Russian 244. Major works by and about women in Russian literature; experiences of women and societal attitudes toward them. Taught in English.
- 252 Sexuality in America: Historical Perspectives. 3 Hours.** Same as History 252. Sexuality as a force in history. Topics include Victorianism, marriage and courtship, sexual subcultures, censorship and purity crusades, popular culture, and various "sexual revolutions."
- 257 Constitutional Law: Women, Gender and Privacy. 3 Hours.** Same as Political Science 257 and African-American Studies 257. 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. Prerequisite: 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.
- 259 The History of American Women. 3 Hours.** Same as History 259. Cultural, social, economic developments of gender relationships and women's lives from the seventeenth century to the present; political and ideological responses; feminism.
- 275 Latin American Women. 3 Hours.** Same as Latin American and Latino Studies 275 and Political Science 275. Latin American women in historical perspective from pre-Columbian and Iberian societies to the present.
- 276 Latinas in the United States. 3 Hours.** Same as Latin American and Latino Studies 276 and Sociology 226. Socioeconomic conditions and cultural experiences of Latinas in the U.S. Historical and contemporary views of labor, health, education, family, identity formation, and leadership.
- 290 Topics in the Study of Sexuality. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Exploration of a topic concerning the subject of sexuality.
- 294 Topics in Gender and Women's Studies. 1 to 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a problem, topic, or issue relevant to the interdisciplinary area of gender and women's studies. Content varies. Prerequisite: Consent of the instructor or one gender and women's studies course.
- 304 Male-Female Communication. 3 Hours.** Same as Communication 304. Speech differences and universals across genders. Talk in male-female interaction. Communication in romantic relationships. Gender issues in work settings. Prerequisites: Comm 101 and 102 and 201 and 203; or approval of the department.
- 312 History and Literature of Women's Health. 2 Hours.** Same as Medical Humanities 312. Literature and medical and historical documents reveal the influences that have shaped theories of women's health in the U.S. from the mid 1800s to today. Prerequisite: Enrollment in a professional college or school or completion of one 100-level gender and women's studies course.
- 315 Psychology of Women and Gender. 3 Hours.** Same as Psychology 315. 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. Prerequisite: Psch 242 or consent of the instructor.
- 340 Language, Gender and Society. 3 Hours.** Same as Linguistics 340. Previously listed as Linguistics 256 and Gender and Women's Studies 256. Relationships between language and gender in society, including mutual influences between social roles and linguistic systems, gender differences in language use and interaction, and cross-cultural comparisons of language and gender.
- 390 Gender and Women's Studies Seminar. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Prerequisites: Junior standing and one course in gender and women's studies, or consent of the instructor.
- 394 Intermediate Topics in Gender and Women's Studies. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Study of a problem, topic or issue relevant to the interdisciplinary area of gender and women's studies at the intermediate level. Content varies. Prerequisite: Consent of the instructor or one course in gender and women's studies.
- 396 Independent Study/Research. 1 to 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Independent study or research in specialized area of women's studies or gender-related scholarship. Extensive reading and individual research projects. Prerequisites: Junior standing and consent of the instructor.
- 403 Culture and Sexuality: Cultural History of Same-Sex Relations. 3 Hours.** Lesbian/gay studies; issues in the history of (homo)sexuality; cultural and historical analysis of same-sexuality in several periods, including our own. Prerequisite: Junior standing or consent of the instructor.
- 412 Women and the Environment. 3 Hours.** Same as Architecture 412. Women's place in the built environment; the role of gender in environmental experience including women as users, designers, planners, policy makers, and critics. Prerequisite: Advanced undergraduate or graduate standing, or consent of the instructor.
- 419 Public Health Aspects of Sexuality and Women's Health. 3 Hours.** Same as Community Health Sciences 419. An overview of human sexuality from a public health view with special emphasis on family planning, sexuality and behavior effects on women's health. Prerequisite: Graduate standing; or junior standing or above with consent of the instructor.
- 424 Gender, Crime, and Justice. 3 Hours.** Same as Criminal Justice 424. 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. Prerequisites: CrJ 101 and 220; or consent of the instructor.
- 425 Sociology of Gender. 3 Hours.** Same as Sociology 424. Variety and change in gender roles; patterns and consequences of gender inequality; gender and sexuality; gender and social institutions such as family, economy. Prerequisite: 6 hours of upper-division sociology or gender and women's studies courses or consent of the instructor.
- 439 Gender and Cultural Production. 3 Hours.** Same as Germanic Studies 439. Taught in English. Students who intend to use Germanic Studies 439 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Issues of gender representation and gender politics examined through the use of theoretical texts or through the study of women authors. Prerequisite: Ger 212 or consent of the instructor.
- 441 Introduction to Maternal and Child Health. 3 Hours.** Same as Community Health Sciences 441. Title V maternal and child health programs; concepts of delivery risks by age; effective interventions and public sector organization for delivery of MCH services. Prerequisite: Consent of the instructor.
- 450 Women and Mental Health Nursing. 3 Hours.** Same as Nursing Sciences 450 and Women's Health Nursing 450. Theories of female psychology; women's daily lives and mental health; gender differences in mental illness; strategies for improving women's mental health. Prerequisite: 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 GWS 315.
- 469 Women's Literary Traditions. 3 Hours.** Same as English 469. An exploration of issues such as the female aesthetic; women's popular literature; factors that enable creativity; differences of race and class. Prerequisite: Junior or graduate standing or consent of the instructor.
- 470 Reading Black Women Writing. 3 Hours.** Same as African-American Studies 470 and English 480. Examines inscriptions of race, gender, class, and sexuality as they shape the literary and critical practices of nineteenth- and twentieth-century black women writers. Prerequisite: AAST 110 or 111 or 250 or consent of the instructor.

**472 Women and Film. 3 Hours.** Same as Art History 434 and English 472. Roles and representations of women in classical Hollywood, European art and independent feminist cinemas. Prerequisite: Engl 102, or 232 or 233; or consent of the instructor.

**474 History and Archives. 4 Hours.** Same as History 474. Introduction to archival preservation and management. Under faculty supervision, students will create a records management plan for an organization to preserve documents of historical importance. Includes internship at an external agency. Prerequisite: 3 hours of history or consent of the instructor.

**478 Women in Chinese History. 3 Hours.** Same as Asian Studies 478 and History 478. 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. Prerequisite: Previous course work in Chinese history or women's studies is recommended.

**484 Topics in the History of Women. 3 Hours.** Same as History 484. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history or gender and women's studies or consent of the instructor.

**485 Gender and Politics. 3 Hours.** Same as Political Science 485. Impact of gender on basic categories of western political thought. Distinctions between reason and emotion, public and private, among others, examined from feminist perspective. Prerequisites: PolS 190 and one 200-level course in political theory; or consent of the instructor.

**490 Advanced Topics in the Study of Sexuality. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Special study at an advanced level of a topic concerning sexuality. Prerequisite: 3 hours in gender and women's studies or consent of the instructor.

**494 Advanced Topics in Gender and Women's Studies. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. 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. Prerequisite: Senior or graduate standing.

## Geography (Geog)

**100 Concepts in Geography. 3 Hours.** Geographic concepts drawn from the areas of cultural, urban/economic, physical, and regional geography.

**101 World Regional Geography. 3 Hours.** Culture areas of the world; regional patterns of the utilization of resources; global, cultural, economic, and political variations.

**141 Environmental Geography. 3 Hours.** Survey of the state of the global environment, the measurement of its condition, and prospects for the future.

**151 Introduction to Cultural Geography. 4 Hours.** 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.

**161 Introduction to Economic Geography. 3 Hours.** 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.

**175 The Making of Maps. 4 Hours.** 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.

**202 Geography of the United States and Canada. 3 Hours.** Environmental conditions, natural resources, and cultural patterns within the two countries; focus on the physical landscapes, human occupancy, and interregional linkages of selected sub areas.

**203 Human Geography of Latin America including the Caribbean Region. 3 Hours.** Same as Latin American and Latino Studies 217. Culture, settlement, political and economic development problems in Latin America, with special attention to Puerto Rico, the Caribbean Region, and Mexico.

**204 Geography of East, Southeast and South Asia. 3 Hours.** 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. Prerequisite: Credit in Geog 100 or Geog 101 is recommended.

**205 Geography of Western Europe. 3 Hours.** Consideration of physical and human resources in non-Soviet Europe. Sub regions are examined with reference to spatial variations of physical and cultural characteristics, including geopolitical relationships with the remainder of the world.

**206 Geography of the CIS (Formerly the USSR). 3 Hours.** Physical and cultural landscapes; regional analysis of resources and economy; the geographic basis of the area's role in world affairs.

**207 Ancient Civilizations of Mexico and Central America. 3 Hours.** Same as Anthropology 227 and Latin American and Latino Studies 258. 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. Prerequisite: Anth 102 or sophomore standing or consent of the instructor.

**211 Chicago: An Urban Geography. 3 Hours.** 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.

**215 A Global Geography of Cities. 3 Hours.** 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: Geog 100 or Geog 161 or Geog 211.

**241 Resource Problems in the United States. 3 Hours.** Problems of U.S. water, air, and land management; resource demand and supply; pollution problems; agencies involved in monitoring resources. Prerequisite: Geog 100 or 101 or 141 or 151 or 161 or consent of the instructor.

**251 Mind and Environment. 3 Hours.** How humans perceive and appraise conditions and act spatially in the macro environment. Environmental learning and behavior in young children. Ethnogeography and environmental perception.

**275 History of Cartography. 3 Hours.** Development of cartography from primitive charts to the space age. Major contributions examined as components leading to present technology. Prerequisite: Geog 100 or 175.

**276 Cartographic Techniques. 4 Hours.** Introduction to the practice of cartographic display of areal data. Topics include map characteristics, symbolization, and map preparation.

**278 An Applications Approach to Computer Cartography. 4 Hours.** Selected problems and practices of cartographic display cast in contexts of advantages and limitations confronting map makers using computers. Prerequisite: Geog 175 or declared geography major or consent of the instructor.

**361 Areal Organization of Economic Activity. 3 Hours.** 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. Prerequisites: Geog 161 or 241; and either Geog 100 or 101.

**386 Elements of Spatial Analysis. 3 Hours.** Same as Anthropology 386. 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. Prerequisites: Consent of the instructor.

**395 Special Studies in Geography. 1 to 3 Hours.** Readings and reports in selected fields chosen in consultation with the instructor. Prerequisite: Consent of the instructor.

**399 Undergraduate Thesis. 1 to 3 Hours.** Open only to departmental majors. Required for graduation with departmental distinction. Individual research under the supervision of a faculty member. Completed application form must be submitted to the director of undergraduate studies prior to enrollment. Prerequisites: A 4.66 grade point average in geography courses counted toward the major, and consent of the adviser.

**401 Topics in Regional Geography. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Geographic analysis of cultural and environmental systems of a political, economic, or climatic region of the world as defined by the instructor. Prerequisites: One upper-division course in each of the areas of skills, systematic and regional/urban geography.

**411 Areal Organization of Urban Systems. 3 Hours.** The physical, economic, social, and political aspects of the internal patterns and external arrangements of cities in the Western world. Prerequisite: One 200-level course in either urban or economic geography.

**431 Advanced Landform Geography. 3 Hours.** Genesis of surficial landforms and processes that sculpt them. Prerequisites: Geog 131 or Geol 101 or consent of the instructor.



**432 Geomorphology and Archaeology. 3 Hours.** Same as Anthropology 421. Relevance of geomorphic processes and landform development to archaeology; role of geomorphology in archaeological surveys, paleogeographic reconstruction, and archaeological interpretation. Elements of geoarchaeology. Prerequisite: Geog 131 or Geol 101 or consent of the instructor.

**441 Topics in Resource Management and Policy. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Selected topics dealing with environmental problems at local, regional, or global levels. Topics vary. Prerequisite: Geog 341 or 361 or consent of the instructor.

**442 Environmental Hazards and Risks. 3 Hours.** Environmental risks of natural and technological hazards; causes and consequences to people; social theories of risks; coping mechanisms used to reduce risk. Prerequisite: Geog 251 or 441 or consent of the instructor.

**444 Management of Solid and Hazardous Waste. 3 Hours.** Same as Civil Engineering, Mechanics, and Metallurgy 423 and Environmental and Occupational Health Sciences 472. 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.

**453 Seminar in Cultural Ecology. 3 Hours.** Same as Anthropology 453. Cultural ecology and cultural evolution, emphasizing peasant farming and other subsistence systems. Soil management under shifting and sedentary agriculture. Prerequisite: Anth 101 or Geog 151 or consent of the instructor.

**455 Quantitative Methods in Anthropology. 3 Hours.** Same as Anthropology 455. Extensive computer use required. 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. Prerequisite: Junior standing or above; and consent of the instructor.

**461 Location and Land Use. 3 Hours.** Environmental, demographic, and institutional influences on land availability/use at global/ local scales; geographies of production/use intensity; market/governmental controls over land/users. Prerequisite: Geog 361 or consent of the instructor.

**464 Geographic Modeling of Transportation Systems. 3 Hours.** 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. Prerequisites: Geog 100 and 161.

**470 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**471 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

**475 Thematic Cartography. 4 Hours.** 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: Geog 276 or 278 or consent of the instructor.

**477 Remote Sensing of the Environment. 3 Hours.** Extensive computer use required. 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.

**478 Mapping with Microcomputers. 4 Hours.** Same as Anthropology 484. 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. Prerequisite: Geog 475 or consent of the instructor.

**481 Geographic Information Systems I. 4 Hours.** Same as Anthropology 481. Components and performance properties of geographic information systems. Geographic hierarchies and data structures. Problems and solutions in handling large geographic files. Geocoding. Prerequisites: Geog 100; and one from Geog 278, 386, IDS 100; or consent of the instructor.

**482 Geographic Information Systems II. 4 Hours.** Same as Anthropology 482. Application of inferential statistical techniques and probability models in geographic research. Topics include use of descriptive parameters in recognizing geographic relationships, tests of significance, and recognition of areal patterns. Prerequisite: Geog 481 or consent of the instructor.

**483 Geographic Information Systems III. 4 Hours.** Same as Anthropology 483. 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. Prerequisite: Geog 482 or consent of the instructor.

**484 Qualitative Methods in Geographic Research. 3 Hours.** Use of qualitative methods in geographic research. Research design choices, data collection and analysis, writing. Applications in environmental and urban geography. Prerequisite: Geography major or minor or Geog 481 or consent of the instructor.

**486 Analysis of Geographic Patterns. 4 Hours.** 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: Geog 482 or consent of the instructor.

**491 History and Philosophy of Geography. 3 Hours.** The philosophy of geography, its theory and research techniques. Analysis of bibliographic sources; criticism of papers on assigned topics. Prerequisite: Declared major or minor in geography or consent of the instructor.

**496 Internship in Geography. 1 to 3 Hours.** Only 3 hours of credit may be counted toward the research requirement in the MA thesis program. Professional field experience with an agency or organization in the private or public sector on projects related to the student's area of specialization. Prerequisites: Declared major in geography or full graduate standing in geography, and consent of faculty adviser and the director of internship programs.

## Germanic Studies (Ger)

*Note: Previous name: German.*

**100 Introduction to Germanic Cultures and Literatures. 3 Hours.** Lectures, discussion, and readings in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Introductory texts on culture and literature of German-speaking countries are studied in the context of their European and international significance.

**101 Elementary German I. 4 Hours.** One additional hour each week in the language laboratory. Equivalent to Germanic Studies 111. Credit is not given for Germanic Studies 101 if the student has credit in Germanic Studies 106 or Germanic Studies 111. Introductory exposure to language and culture of German-speaking countries, with use of current materials. Prerequisite: For students who have not studied German or placement as determined by test score.

**102 Elementary German II. 4 Hours.** One additional hour each week in the language laboratory. Equivalent to Germanic Studies 112. Credit is not given for Germanic Studies 102 if the student has credit in Germanic Studies 106 or Germanic Studies 112. Continuation of Germanic Studies 101 or Germanic Studies 111. Increased exposure to language and culture of German-speaking countries, with use of current materials. Prerequisite: Grade of C or better in Ger 101 or Ger 111 or appropriate score on the department placement test.

**103 Intermediate German I. 4 Hours.** One additional hour each week in the language laboratory. Equivalent to Germanic Studies 113. Credit is not given for Germanic Studies 103 if the student has credit for Germanic Studies 107 or Germanic Studies 113. Continuation of Germanic Studies 102 or Germanic Studies 106 or Germanic Studies 112. Intensive exposure to the language and culture of German-speaking countries, with use of current materials. Prerequisite: Grade of C or better in Ger 102 or Ger 106 or Ger 112 or appropriate score on the department placement test.

- 104 Intermediate German II. 4 Hours.** One additional hour each week in the language laboratory. Equivalent to Germanic Studies 114. Credit is not given for Germanic Studies 104 if the student has credit in Germanic Studies 107 or Germanic Studies 114. Continuation of Germanic Studies 103 or Germanic Studies 113. Final intensive exposure to language and culture of German-speaking countries, with use of current materials. Prerequisite: Grade of C or better in Ger 103 or Ger 113 or appropriate score on the department placement test.
- 106 Intensive Elementary German. 8 Hours.** Two additional hours each week in the language laboratory. Equivalent to Germanic Studies 101 and Germanic Studies 102 (or Germanic Studies 111 and Germanic Studies 112) combined. Credit is not given for Germanic Studies 106 if the student has credit in Germanic Studies 101 or Germanic Studies 102 or Germanic Studies 111 or Germanic Studies 112. Accelerated course, including exposure to the language and culture of German-speaking countries, with use of current materials. Prerequisite: For students who have not studied German or placement as determined by test score.
- 107 Intensive Intermediate German. 8 Hours.** Two additional hours each week in the language laboratory. Equivalent to Germanic Studies 103 and Germanic Studies 104 (or Germanic Studies 113 and Germanic Studies 114) combined. Credit is not given for Germanic Studies 107 if the student has credit in Germanic Studies 103 or Germanic Studies 104 or Germanic Studies 113 or Germanic Studies 114. Accelerated course, including exposure to the language and culture of German-speaking countries, with use of current materials. Prerequisite: Grade of C or better in Ger 102 or Ger 106 or Ger 112 or appropriate score on the department placement test. A grade of B or better in Ger 102 or Ger 106 or Ger 112 is recommended.
- 111 Elementary German I: Computer-Aided Self-Paced Instruction. 4 Hours.** Extensive computer use required. Equivalent to Germanic Studies 101. Intended for self-motivated, self-disciplined students. Credit is not given for Germanic Studies 111 if the student has credit in Germanic Studies 101 or Germanic Studies 106. This beginning language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Prerequisite: For students who have not studied German or placement as determined by test score.
- 112 Elementary German II: Computer-Aided Self-Paced Instruction. 4 Hours.** Extensive computer use required. Equivalent to Germanic Studies 102. Intended for self-motivated, self-disciplined students. Credit is not given for Germanic Studies 112 if the student has credit in Germanic Studies 102 or Germanic Studies 106. This beginning language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Prerequisite: Grade of C or better in Ger 101 or Ger 111 or appropriate score on the department placement test.
- 113 Intermediate German I: Computer-Aided Self-Paced Instruction. 4 Hours.** Extensive computer use required. Equivalent to Germanic Studies 103. Intended for self-motivated, self-disciplined students. Credit is not given for Germanic Studies 113 if the student has credit in Germanic Studies 103 or Germanic Studies 107. This intermediate language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Prerequisite: Grade of C or better in Ger 102 or Ger 106 or Ger 112 or appropriate score on the department placement test.
- 114 Intermediate German II: Computer-Aided Self-Paced Instruction. 4 Hours.** Extensive computer use required. Equivalent to Germanic Studies 104. Intended for self-motivated, self-disciplined students. Credit is not given for Germanic Studies 114 if the student has credit in Germanic Studies 104 or Germanic Studies 107. This intermediate language course combines learning with computer and Internet-based modules and a weekly one-hour communication session. Prerequisite: Grade of C or better in Ger 103 or Ger 113 or appropriate score on the department placement test.
- 120 Study of Gender, Class, and Political Issues in German Texts. 3 Hours.** Same as Gender and Women's Studies 120. Readings, lectures, and discussions in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Portrayal of relationships between men and women, classes, and political interest groups in German literature.
- 122 Minority Perspectives in the Germanic Context. 3 Hours.** Same as Jewish Studies 122. Lectures, discussion, and readings in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Investigation of the challenges and/or opportunities of multicultural societies by examining in a socio-historical context texts created by members of Europe's ethnic, religious, and national minorities.
- 123 Introduction to Yiddish Culture and Literature. 3 Hours.** Same as Jewish Studies 123. Lectures, discussion and readings in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Yiddish culture in Europe and the U.S. in socio-historical context. Focus on the role of Yiddish in conceptions of secular, cultural, religious, national Jewish identities.
- 161 German Language Studies. 3 to 16 Hours.** May be repeated for a maximum of 16 hours of credit. A four-week summer course taken in a German-speaking country. Prerequisite: Approval of the department.
- 211 Advanced German I. 3 Hours.** Area: language. Advanced training on effective communication, reading, and writing strategies based on authentic written and oral texts. Emphasis on refining accuracy of expression. Prerequisite: Ger 104 or Ger 107 or Ger 114 or the equivalent.
- 212 Advanced German II. 3 Hours.** Area: language. Advanced training on effective communication, reading and writing strategies based on authentic written and oral texts. Emphasis on refining accuracy of expression. Prerequisite: Ger 211 or the equivalent.
- 214 German Conversation and Pronunciation. 3 Hours.** Area: language. May be repeated for credit. Developing and refining effective communication skills by emphasizing pronunciation, idiomatic expressions, and monitoring grammatical errors. Prerequisite: Ger 104 or Ger 107 or Ger 114 or the equivalent.
- 215 Business German. 3 Hours.** Area: language or culture. Practical vocabulary and oral and written communication for business and industry. Prerequisite: Ger 104 or Ger 107 or Ger 114 or the equivalent.
- 217 German Cinema. 3 Hours.** Taught in English. No knowledge of German required. Area: literature/culture. German cinema as communication and art; its production, reception and ideological perspectives.
- 218 Opera in Germanic Cultures: From Mozart to Berg. 3 Hours.** Taught in English. No knowledge of German required. Students who intend to use Germanic Studies 218 toward an undergraduate major or minor in the Department of Germanic Studies will do assignments in German. Area: literature/culture. 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. Prerequisite: For majors and minors in the Department of Germanic Studies only: Ger 211.
- 219 Vikings and Wizards: Northern Myth and Fairy Tales in Western Culture. 3 Hours.** Taught in English. Area: literature/culture. Investigation of fairy tales and myths and their contribution to societal structure. The focus is on the meaning and influence of Germanic myths and fairy tales.
- 290 Introduction to Germanic Literature. 3 Hours.** Taught in German. Area: literature/culture. Focus on texts of different time periods and genres, with emphasis on developing techniques for analyzing literature in its historical context. Prerequisite: Ger 211 or consent of the instructor.
- 299 Germanic Study Abroad. 0 to 17 Hours.** May be repeated for a maximum of 34 hours of credit per academic year. 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. Prerequisites: 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.
- 300 Writing in the Study of German. 1 Hour.** Perfecting skills of written self-expression in English. Prerequisites: Junior or senior standing and approval of the department. Restricted to majors and minors in the Department in Germanic Studies. Must be taken concurrently with a literature or culture course that receives credit toward a major in the Department of Germanic Studies, as specified in the Timetable.
- 310 Practice in German Language Skills. 3 Hours.** Area: language. Majors and minors outside the Department of Germanic Studies may repeat this course for a maximum of 6 hours of credit. Develops advanced communicative language skills. Prerequisite: Ger 212 or the equivalent.



- 311 Contemporary Germanic Culture and Society. 3 Hours.** Area: literature/culture. Exploring texts, films, and other media sources in the areas of politics, science, technology, arts, commerce, and popular culture in German-speaking countries. Prerequisite: Ger 211 or the equivalent.
- 316 Periods of Germanic Literature and Culture. 3 Hours.** Area: literature/culture. May be repeated for a maximum of 9 hours of credit if topic is different for each registration. Students may register for more than one section per term. The study of literary works and other texts representative of a historical period. Prerequisite: For majors or minors in the Department of Germanic Studies only: Ger 211 or the equivalent.
- 318 Topics in Germanic Literatures and Cultures. 3 Hours.** Area: literature/culture. May be repeated for a maximum of 9 hours of credit if topic is different for each registration. Prominent persons, genres, themes or movements in the areas of Germanic literature, ideas, and art. Topics vary. Prerequisite: Ger 211 or the equivalent.
- 333 Topics in Genres in Germanic Studies. 3 Hours.** Area: literature/culture. May be repeated for a maximum of 9 hours of credit if topic is different for each registration. Students may register for more than one section per term. The study of genres such as novel, drama, poetry, autobiography, philosophy; and critical reflections on the genre. Prerequisite: Ger 211 or the equivalent.
- 370 Introduction to the Theory and Practice of German Cultural Studies. 3 Hours.** Area: literature/culture. Introduction to the field of Germanic studies; theoretical approaches and methods; overview of literature; perspectives of German-speaking cultures. Prerequisite: Ger 211 or the equivalent.
- 398 Honors Project. 3 Hours.** May not be taken in the term in which student expects to graduate. Independent study. Prerequisites: Completion of 12 hours of courses toward the major, with a grade point average of at least 4.60 in these courses, and prior approval of the department. Restricted to majors in the Department of Germanic Studies.
- 399 Independent Study. 1 to 3 Hours.** Students may register for more than one section per term. Individual study under faculty direction for qualified students with special interests and needs not met by regularly offered courses. Prerequisite: Consent of the instructor.
- 400 German for Reading Knowledge. 3 Hours.** Preparation for the Graduate Proficiency Exam. 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. Basic components of German grammar, sentence structure, and vocabulary. Selected texts in humanities, social sciences, and natural sciences.
- 401 Advanced Practice in German Language Skills. 3 Hours.** Area: language. Majors and minors outside the Department of Germanic Studies may repeat this course for a maximum of 6 hours of credit. Communicative use of German techniques for understanding written and spoken texts, practicing conversation and writing texts such as essays, compositions, letters, and email. Prerequisite: Ger 212 or the equivalent. Credit or concurrent registration in Ger 310 is recommended.
- 404 Yiddish for Reading Knowledge. 3 Hours.** Preparation for the Graduate Proficiency Exam. Does not satisfy the graduation requirement in foreign languages. Basic components of Yiddish grammar, sentence structure, and vocabulary. Selected texts in the original language will be studied. Prerequisite: Ger 211 or consent of the instructor or graduate standing.
- 407 Theoretical and Research Foundations of Communicative Language Teaching. 3 Hours.** Taught in English. Pedagogical examples are in German. Ten hours of high school observation required. Area: language. This course focuses on theory and practice of communicative language teaching and explores current approaches of task-based instruction, testing, and media-enhanced instruction. Prerequisite: Ger 212 or the equivalent.
- 408 Introduction to Translation Theory. 3 Hours.** Area: language. 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. Prerequisite: Ger 212 or the equivalent or graduate standing.
- 411 The City as Cultural Focus. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Taught in English. No knowledge of German required. Students who intend to use Germanic Studies 411 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. Interdisciplinary study of urban culture with focus on German-speaking countries. Prerequisites: For majors and minors in the Department of Germanic Studies only: Ger 212 or the equivalent or consent of the instructor.
- 420 Germanic Cultural Studies I: Genres. 3 Hours.** Students who intend to use Germanic Studies 420 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. May be repeated for a maximum of 9 hours of credit if topic is different for each registration. Concentration on a genre, with stress on cultural analysis and theoretical inquiry. Prerequisite: Ger 212 or consent of the instructor.
- 421 Germanic Cultural Studies II: Authors, Movements, Periods. 3 Hours.** Students who intend to use Germanic Studies 421 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. May be repeated for a maximum of 9 hours of credit if topic is different for each registration. Critical analysis of texts in the biographical, social, cultural, and historical context. Prerequisite: Ger 212 or consent of the instructor.
- 422 Germanic Cultural Studies III: Themes. 3 Hours.** Students who intend to use Germanic Studies 422 toward a degree offered by the Department of Germanic Studies will do assignments in German. Area: literature/culture. May be repeated for a maximum of 9 hours of credit if topic is different for each registration. Explores themes in German-speaking societies, such as the family, xenophobia, crime, and science, with stress on literary analysis and interpretation. Prerequisite: Ger 212 or consent of the instructor.
- 430 Classical German Philosophy. 3 Hours.** Area: literature/culture. Introduction to German philosophy and intellectual history through the critical analysis of major authors and texts. Prerequisite: One 300-level course in Germanic Studies or consent of instructor.
- 437 Contemporary Germanic Literature. 3 Hours.** Area: literature/culture. May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Literature of the German-speaking world since World War II, with emphasis on current issues and recent critical approaches to literature. Prerequisite: Ger 212 or the equivalent or consent of the instructor or graduate standing.
- 438 The Faust Legend. 3 Hours.** Area: literature/culture. Discusses Goethe's Faust within the context of European and non-European literatures. Traces the origins, significance, and interpretation of the Faust figure. Prerequisite: Ger 212 or the equivalent or consent of the instructor or graduate standing.
- 439 Gender and Cultural Production. 3 Hours.** Same as Gender and Women's Studies 439. 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. May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Issues of gender representation and gender politics examined through the use of theoretical texts or through the study of women authors. Prerequisite: Ger 212 or consent of the instructor.
- 448 Foundations of Second Language Teaching. 3 Hours.** Same as French 448 and Spanish 448. Taught in English. 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. Prerequisite: Junior standing or above and consent of the instructor; and three courses at the 200 and 300-levels.
- 449 Teaching Second Language Literacy and Cultural Awareness. 3 Hours.** Same as French 449 and Spanish 449. Taught in English. 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. Prerequisite: Junior standing or above and consent of the instructor.
- 450 Business Operations in German-Speaking Countries. 3 Hours.** Knowledge of German not required. The political, cultural, historical, and economic environment in which business operates in the German-speaking countries; the effects of this environment on international business.
- 461 German Abroad. 0 to 17 Hours.** May be repeated for a maximum of 34 hours of credit. Taken in a German-speaking country. Lectures, seminars, and practical work in German language, literature, and civilization. Prerequisites: Ger 104 or the equivalent, a 3.75 overall grade point average, and a 4.00 grade point average in Germanic Studies; and approval of the Department.

**470 Exploring the Field of Germanic Studies. 3 Hours.** Team-taught. Research in film studies, gender studies, Jewish culture, minorities, literary studies, intellectual history, applied linguistics in Germanic Studies. Each unit taught by different faculty member from Department of Germanic Studies. Prerequisite: Undergraduate students must obtain approval of the department.

**480 Hegel Studies. 3 Hours.** Taught in English. Area: literature/culture. May be repeated for credit if the topic is different for each registration. 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). Prerequisite: Ger 430 or consent of the instructor. Phil 224 or 425 recommended.

**492 Internship in International Business. 0 to 12 Hours.** May be repeated for credit with the approval of the Department. Satisfactory/Unsatisfactory grade only. Student placement in an international organization or firm in a German-speaking country or its U.S. subsidiary or division. Prerequisites: Ger 211 and consent of the instructor and a grade point average of 3.00. Registration in Ger 493 (concurrently or in the semester immediately following) is recommended.

**493 Internship Seminar: Business. 1 to 4 Hours.** May be repeated for credit with the approval of 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 toward a graduate degree offered by the Department of Germanic Studies. Academic component of the internship experience. Studies in the field of the internship and further investigation of related topics. Prerequisites: Ger 211 and credit or concurrent registration in Ger 492 and consent of the instructor and a grade point average of 3.00.

**494 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**495 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

## Ancient Greek (GkA)

**101 Elementary Ancient Greek I. 4 Hours.** The fundamentals of ancient classical Greek, including the reading of simple prose.

**102 Elementary Ancient Greek II. 4 Hours.** Continues Ancient Greek 101. Grammar and reading. Prerequisite: GkA 101.

**103 Intermediate Ancient Greek I. 4 Hours.** Introduction to Greek philosophers and historians. Selections from Plato, Thucydides, Demosthenes, and other Attic prose writers. Prerequisite: GkA 102.

**104 Intermediate Ancient Greek II. 4 Hours.** Introduction to Greek epic and tragedy. Readings from Homer and Euripides. Prerequisite: GkA 103.

**299 Independent Reading. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Individual study under faculty direction. For students qualified by preparation and interest. Prerequisite: GkA 104 or the equivalent.

**498 Advanced Topics in Ancient Greek Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Intensive reading of ancient Greek literature. Topics vary. Prerequisite: 4 hours of ancient Greek at the 200-level or the equivalent.

**499 Independent Reading. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Individual study under faculty direction. For students qualified by preparation and interest. Prerequisite: 4 hours of ancient Greek at the 200-level or the equivalent.

## Modern Greek (GkM)

**101 Elementary Modern Greek I. 4 Hours.** Fundamentals of standard modern Greek at the beginning level, including pronunciation, grammar, reading, conversation, and composition.

**102 Elementary Modern Greek II. 4 Hours.** Continues study of standard modern Greek grammar, reading, conversation, and composition. Prerequisite: GkM 101.

**103 Intermediate Modern Greek I. 4 Hours.** Introduces complex grammatical constructions. Improves speaking and writing ability. Develops oral composition of standard modern Greek. Greek used for conversation, English for explanation. Prerequisite: GkM 102 or the equivalent.

**104 Intermediate Modern Greek II. 4 Hours.** Further develops writing, speaking, and comprehension. Focuses on idiomatic expressions. Lectures often conducted in modern Greek. Prerequisite: GkM 103 or the equivalent.

**209 The Byzantine Empire. 3 Hours.** Same as History 209. The East Roman Empire from its creation by Diocletian and Constantine to its conquest by the Ottoman Turks.

## Hebrew (Heb)

**101 Elementary Hebrew I. 4 Hours.** Introduction to the vocalization, basic vocabulary, and grammatical structure of the Hebrew language. Spoken and written Hebrew are both stressed. Prerequisite: For students who have not studied Hebrew or placement as determined by test score or consent of the instructor.

**102 Elementary Hebrew II. 4 Hours.** 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: Heb 101 or adequate performance on the placement test or consent of the instructor.

**103 Intermediate Hebrew I. 4 Hours.** The second year of Hebrew language study. Study of Hebrew grammar with emphasis on sentence structure for speaking and writing Hebrew. Prerequisite: Heb 102 or adequate performance on the placement test or consent of the instructor.

**104 Intermediate Hebrew II. 4 Hours.** Focused study of Hebrew grammar and reading comprehension. Emphasis on writing and speaking Hebrew with fluency. Prerequisite: Heb 103 or adequate performance on the placement test or consent of the instructor.

## Hindi-Urdu (HNUR)

**101 Elementary Hindi-Urdu I. 4 Hours.** 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: For students who have not studied Hindi-Urdu, or placement as determined by test score, or consent of the instructor.

**102 Elementary Hindi-Urdu II. 4 Hours.** Continues Hindi-Urdu 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: HNUR 101; or appropriate score on the department placement test; or consent of the instructor.

**103 Intermediate Hindi-Urdu I. 4 Hours.** This course builds on the foundation of HNUR 101 and 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: HNUR 102 or the equivalent, or consent of the instructor.

**104 Intermediate Hindi-Urdu II. 4 Hours.** 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: HNUR 103 or consent of the instructor.

## History (Hist)

**100 Western Civilization to 1648. 3 Hours.** Introduction to the development of Western civilization and the modern world: ancient medieval and early modern history.

**101 Western Civilization Since 1648. 3 Hours.** Introduction to the development of Western civilization in the early modern and modern world.

**103 American Civilization to the Late Nineteenth Century. 3 Hours.** 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.

**104 American Civilization Since the Late Nineteenth Century. 3 Hours.** Response to urban-industrial society; expansionist foreign policy; political and social reform; race and ethnicity; Depression and world wars; Cold War; recent trends.

- 106 The World Since 1400. 3 Hours.** Overview of historical developments creating an interconnected world. Explorations, rise of capitalism, European colonialism, nationalism and development, the predicaments of post-colonial societies.
- 109 East Asian Civilization: China. 3 Hours.** Same as Asian Studies 109. An introduction to Chinese civilization, including history, philosophy, and religions from earliest times to c. 1500.
- 110 East Asian Civilization: Japan. 3 Hours.** Same as Asian Studies 110. An overview of Japanese history from earliest times to the mid-twentieth century: social structure, economic change, political institutions, religion, and culture.
- 114 Topics in World History. 3 Hours.** May not be repeated for credit. Introduction to history through global events and the historical development of diverse cultural, religious, social, economic, and political institutions.
- 116 Freshman Seminar: Special Topics. 3 Hours.** An introduction to the study of history through special topics and the use of primary source materials.
- 117 Understanding the Holocaust. 3 Hours.** Same as Jewish Studies 117. Holocaust of European Jewry as the result of anti-Semitic ideology and the development of modern German political forces; implementation of the Final Solution.
- 141 African Civilization. 3 Hours.** Same as African-American Studies 141. Introduction to history and historical methods through the study of African history.
- 150 Catholicism in U.S. History. 3 Hours.** Same as Catholic Studies 150 and Religious Studies 150. The Catholic experience in the United States from its colonial origins to the present.
- 161 Introduction to Latin American History. 3 Hours.** Same as Latin American and Latino Studies 161. Introduction to major themes in Latin American history from pre-Colombian society and the European conquest to the present.
- 177 Middle Eastern Civilization. 3 Hours.** Introduction to the culture and society of the Middle East, with special attention to the development of Islam and the consequences of westernization.
- 202 The Ancient World: Greece. 3 Hours.** Same as Classics 202. Greece from the Mycenaean through the Hellenistic periods; political, social, economic, and religious life of the Greek city-state and the Hellenistic kingdoms.
- 203 The Ancient World: Rome. 3 Hours.** Same as Classics 203. 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.
- 204 Greek Art and Archaeology. 3 Hours.** Same as Art History 204 and Classics 204. 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.
- 205 Roman Art and Archaeology. 3 Hours.** Same as Art History 205 and Classics 205. Contributions of archaeological excavations to the study of ancient Rome and her empire, 1000 BC to 400 AD. Architecture, sculpture, and painting in their social and historical contexts.
- 206 The Earlier Middle Ages. 3 Hours.** 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.
- 207 The Later Middle Ages. 3 Hours.** Europe from the eleventh to the fifteenth centuries. Emphasis on high medieval culture, the development of national monarchies, European expansion and its decline.
- 209 The Byzantine Empire. 3 Hours.** Same as Modern Greek 209. The East Roman Empire from its creation by Diocletian and Constantine to its conquest by the Ottoman Turks.
- 211 Europe: 1500 to 1715. 3 Hours.** Social, economic, political, and cultural analysis of western Europe in the sixteenth and seventeenth centuries, from the Renaissance to the Enlightenment.
- 212 Europe: 1715 to 1815. 3 Hours.** Europe from the death of Louis XIV to Napoleon's fall, with special emphasis on building of states, urban development, and political change.
- 213 Europe: 1815 to 1914. 3 Hours.** Social, economic, and political history of Europe from the Congress of Vienna to World War I.
- 214 Europe: 1914 to 1945. 3 Hours.** War origins; the Russian revolution and communist autocracy; the rise of European fascism; the dilemmas of the democracies; intellectual resistance 1939-45; wartime diplomacy.
- 216 Military History: War Since Napoleon. 3 Hours.** The doctrine, technology, strategy and tactics of military and naval conflict in the nineteenth and twentieth centuries.
- 220 Modern Germany Since 1848. 3 Hours.** Unification and industrialization in the nineteenth century; world wars and the development of the two Germanys in the twentieth century.
- 222 England to 1689. 3 Hours.** England from the Celtic immigration to the Glorious Revolution.
- 223 Modern Britain Since 1689. 3 Hours.** History of Britain from the Glorious Revolution to the present.
- 224 France: 1500 to 1715. 3 Hours.** French society and culture in the formative period, from the reign of Francis I to that of Louis XIV.
- 225 France: 1715 to 1848. 3 Hours.** Major political, social, and economic forces in French history 1715 to 1848, including the Ancient Regime, the Enlightenment, the French Revolution, Napoleon, and the Restoration.
- 226 France Since 1848. 3 Hours.** An investigation into the major political, social, and economic forces at work in French history from 1848 to the present.
- 227 Spain: 1469 to 1808. 3 Hours.** Same as Latin American and Latino Studies 227. The political, socioeconomic, and cultural development of Spain from the reign of Ferdinand and Isabella to the War of Independence.
- 228 Spain Since 1808. 3 Hours.** Same as Latin American and Latino Studies 228. Loss of the colonies, liquidation of the Ancient Regime, national integration, sociopolitical polarization, the Civil War, and the Franco regime.
- 233 History of East Central Europe and the Balkans. 3 Hours.** Political, socioeconomic, and cultural developments in the Balkans and the region between the German and Russian states from the medieval period to the present.
- 234 History of Poland. 3 Hours.** Same as Polish 234. Political, socioeconomic, and cultural developments since the first Polish state, the union with Lithuania, the struggle for independence, Communist rule to the present.
- 236 Russia to 1812. 3 Hours.** Surveys the major political, social, economic, and cultural developments from the beginnings of Russian history to the Napoleonic invasion.
- 237 Russia since 1812. 3 Hours.** Surveys the major political, social, economic and cultural development from the Napoleonic invasion to the collapse of the Soviet Union.
- 241 Precolonial Africa. 3 Hours.** Same as African-American Studies 241. Development of human civilization; the rise of kingdoms and territorial states; migration of peoples; the spread and impact of Islam; west African trading networks.
- 242 Modern Africa. 3 Hours.** Same as African-American Studies 242. The effect of European partition and colonialism; African military and political resistance; economic imperialism; the rise of nationalism; the problems of independence.
- 247 African-American History to 1877. 3 Hours.** Same as African-American Studies 247. Survey of major social, economic, political, and cultural developments and trends in the history of African-Americans from the rise of the Atlantic Slave Trade to Reconstruction's end. Prerequisite: One course in African-American studies or history, or consent of the instructor.
- 248 African-American History since 1877. 3 Hours.** Same as African-American Studies 248. The major social, economic, political, and intellectual developments in African-American history since Reconstruction. Topics include Jim Crow, black leadership, migration and urbanization, social and political movements, civil rights and nationalism. Prerequisite: One course in African-American studies or history, or consent of the instructor.
- 250 American Ethnic History. 3 Hours.** The transplanted cultures of Asian, African, and European immigrants in the American urban setting with special attention to their social, cultural, and behavioral differences.
- 251 History of Race Relations in America. 3 Hours.** Same as African-American Studies 200 and Latin American and Latino Studies 251. An examination of American racial thought and racial discrimination to determine how the content and function of both have changed over time.
- 252 Sexuality in America: Historical Perspectives. 3 Hours.** Same as Gender and Women's Studies 252. Sexuality as a force in history. Topics include Victorianism, marriage and courtship, sexual subcultures, censorship and purity crusades, popular culture, and various "sexual revolutions."



- 253 The Worker in American Life. 3 Hours.** 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.
- 254 Topics in Urban History. 3 Hours.** May be repeated for credit if topic is different for each registration. Students may register for more than one section per term. To introduce the subject of urban history as a discipline as well as study the importance of cities in creating and preserving civilizations. Prerequisite: At least one history course at the 100-level.
- 255 History of Chicago. 3 Hours.** Development from frontier outpost to postindustrial metropolis; economic, social, political, and cultural changes and institutions; suburbanization and deindustrialization.
- 256 Religious Experiences in American History. 3 Hours.** Same as Religious Studies 256. 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.
- 257 History of Illinois. 3 Hours.** Social, economic, and political history of Illinois with attention to the frontier, Lincoln, Civil War, industrialization, agriculture and Chicago.
- 258 Topics in Intellectual History. 3 Hours.** May be repeated for credit if topic is different for each registration and with the consent of the instructor. 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.
- 259 The History of American Women. 3 Hours.** Same as Gender and Women's Studies 259. Cultural, social, economic developments of gender relationships and women's lives from the seventeenth century to the present; political and ideological responses; feminism.
- 261 Latin America to 1850. 3 Hours.** Same as Latin American and Latino Studies 261. A survey of the pre-Columbian and early national periods.
- 262 Latin America Since 1850. 3 Hours.** Same as Latin American and Latino Studies 262. Latin American socioeconomic, political, and cultural development since 1850 with emphasis on major countries and regions.
- 265 Mexico: 1400 to 1850. 3 Hours.** Same as Latin American and Latino Studies 265. Social, economic, political and cultural development of Mexican society from pre-Hispanic roots through Spanish conquest to independence and its aftermath.
- 266 Mexico Since 1850. 3 Hours.** Same as Latin American and Latino Studies 266. Revolution and evolution in the making of modern Mexican society.
- 271 Late Imperial China: 1500 to 1911. 3 Hours.** Same as Asian Studies 271. 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.
- 272 China Since 1911. 3 Hours.** Same as Asian Studies 272. Twentieth-century China from 1911 to the present, including warfare; areas of intellectual inquiry; and changes in government, family, and the role of women.
- 273 Japan to 1600. 3 Hours.** Same as Asian Studies 273. Topical survey from earliest times to 1600: political and economic institutions, ideology, class structure, gender, culture, religions, and warfare.
- 274 Japan Since 1600. 3 Hours.** Same as Asian Studies 274. 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.
- 275 History of South Asia. 3 Hours.** Same as Asian Studies 275. An outline of South Asian history from the earliest times to the present, in regional and global contexts.
- 277 The Middle East to 1258. 3 Hours.** Middle Eastern history from the seventh to thirteenth centuries; emphasis on Muhammad's impact; major political, cultural, and intellectual developments.
- 278 The Middle East Since 1258. 3 Hours.** 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.
- 281 Topics in Social History. 3 Hours.** May be repeated for credit if topic is different for each registration. Specific topics are announced each term.
- 283 Topics on Environmental History. 3 Hours.** May be repeated for credit if topic is different for each registration. Topics in environmental history at the introductory level. Environmental processes as they interact with the human environment, trade and politics at the local, national and/or international levels will be examined.
- 288 History of Modern Puerto Rico. 3 Hours.** Same as Latin American and Latino Studies 288. Survey of political and socioeconomic history from 1868 to the present.
- 290 History of the Mexican People in the United States. 3 Hours.** Same as Latin American and Latino Studies 290. The political, social, economic, and cultural development of the Mexican people in the U.S. from colonial times until the present.
- 291 American Business History. 3 Hours.** 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.
- 294 Topics in Catholic History. 3 Hours.** Same as Catholic Studies 294 and Religious Studies 294. May be repeated for credit if topic is different for each registration. 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.
- 295 Introduction to the History of Science. 3 Hours.** 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.
- 300 History Methods Colloquium. 3 Hours.** Required of all history majors. Majors are encouraged to take this course as soon as they become eligible. May not be repeated for credit. 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. Prerequisite: History major with 9 hours of history credit.
- 320 Teaching History and the Related Disciplines. 3 Hours.** 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: Consent of the instructor.
- 394 Topics in Catholic History and Culture. 3 Hours.** Same as Catholic Studies 394 and Religious Studies 394. Exploration of various topics in Catholic history and culture. Prerequisite: One course in history or Catholic studies; or consent of the instructor.
- 398 Honors Project. 3 Hours.** No more than 9 hours of credit allowed in combination of 398 and 399. Student must complete an independent project in one semester; projects will be selected in consultation with the instructor. Prerequisites: History major with junior or senior standing and 15 hours in history at the 200 or 400 level; 4.50 grade point average in history and 4.25 overall grade point average; and consent of the instructor prior to registration.
- 399 Independent Study: Special Topics. 3 Hours.** May be repeated for a maximum of 9 hours of credit. If taken in conjunction with 398, the maximum is 6 hours of credit. Students may register for more than one section per term. Selected topics for individual study. Prerequisite: Consent of the instructor prior to registration.
- 400 Topics in Ancient History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 401 Topics in Greek History. 3 Hours.** Same as Classics 401. May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or classics.
- 402 Topics in Roman History. 3 Hours.** Same as Classics 402. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history or classics.
- 404 Roman Law and the Civil Law Tradition. 3 Hours.** Same as Classics 404 and Criminal Justice 404. Roman law and its relationship to values and social structure; social analysis through law; continental law tradition. Prerequisite: Hist 203 or CrJ 200 or consent of the instructor.
- 406 Topics in Medieval History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history, or junior standing or above, or consent of the instructor.
- 409 Topics in Early Modern European History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 410 Topics in Modern European History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.



- 418 Topics in German History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of European history or consent of the instructor.
- 420 Teaching the Social Sciences. 3 Hours.** This course focuses on acquiring and practicing the skills for teaching the social science at the secondary level within the context of history. Prerequisite: 9 hours of credit in the social sciences and approval of the instructor.
- 421 Topics in British and Irish History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 6 hours of history or consent of the instructor.
- 424 Topics in French History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: One 200-level course in French or European history or consent of the instructor.
- 429 Topics in Italian History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 433 Topics in Eastern European History. 3 Hours.** Same as Slavic 433. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of European history or consent of the instructor.
- 435 Topics in Russian History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of European history or consent of the instructor.
- 441 Topics in African History. 3 Hours.** Same as African-American Studies 441. May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of African history, African-American studies, or consent of the instructor.
- 445 History of Islam in the African World. 3 Hours.** Same as African-American Studies 445. 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. Prerequisite: Consent of the instructor.
- 451 Topics in Colonial American History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of U.S. history or consent of the instructor.
- 452 Topics in Revolutionary and Early National United States History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 453 Topics in Nineteenth-Century United States History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 454 Topics in Twentieth-Century United States History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of U.S. history or consent of the instructor.
- 455 Topics in Southern History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 461 Topics in Latin American History. 3 Hours.** Same as Latin American and Latino Studies 461. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history, Latin American and Latino studies or consent of the instructor.
- 472 Issues and Events in Twentieth-Century China. 3 Hours.** Same as Asian Studies 472. 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. Prerequisite: Previous course work in Chinese history at the 100 or 200 level is recommended.
- 473 Topics in East Asian History. 3 Hours.** Previously listed as History 471. Same as Asian Studies 473. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of East Asian history or consent of the instructor.
- 474 History and Archives. 4 Hours.** Same as Gender and Women's Studies 474. Introduction to archival preservation and management. Under faculty supervision, students will create a records management plan for an organization to preserve documents of historical importance. Includes internship at an external agency. Prerequisite: 3 hours of history or consent of the instructor.
- 475 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.
- 476 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.
- 477 Topics in Middle Eastern History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 478 Women in Chinese History. 3 Hours.** Same as Asian Studies 478 and Gender and Women's Studies 478. 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. Prerequisite: Previous course work in Chinese history or women's studies is recommended.
- 479 Culture and Colonialism in South Asia. 3 Hours.** Same as Anthropology 479 and Asian Studies 479. Examines the emergence of colonial cultures of domination and resistance on the Indian subcontinent from the eighteenth century to 1947.
- 480 Topics in Economic History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.
- 481 Topics in Social History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 482 Topics in Migration History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 483 Topics in the History of Public Policy. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 484 Topics in the History of Women. 3 Hours.** Same as Gender and Women's Studies 484. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history or gender and women's studies or consent of the instructor.
- 485 Topics in African-American History. 3 Hours.** Same as African-American Studies 481. May be repeated for credit. Students may register for more than one section per term if topic is different for each registration. African-American history for students with significant background in the field. Topics vary. Prerequisite: Hist 104 or 247 or 248 or consent of the instructor.
- 486 Topics in the History of Science. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 487 Topics in the History of Sexuality. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours in history or consent of the instructor.
- 488 Topics in Urban History. 3 Hours.** May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 489 Topics in Military History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 490 Topics in Diplomatic History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Prerequisite: 3 hours of history.
- 491 Topics in Constitutional History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 492 Topics in Intellectual History. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.
- 493 Topics in Historiography. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.

**494 Topics in Political History. 3 Hours.**

May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history.

**495 Topics in Religious History. 3 Hours.**

Same as Religious Studies 495. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.

**496 Topics in Race, Ethnic and Minority History. 3 Hours.**

Same as African-American Studies 496. May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.

**497 Topics in Cultural History. 3 Hours.**

May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.

**498 Topics in Quantitative Methods. 3 Hours.**

May be repeated for credit. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.

## Interdisciplinary Studies in the Arts (ISA)

**100 Freshman Seminar: Introduction to Interdisciplinary Practice in the Arts. 1 Hour.**

Satisfactory/Unsatisfactory grade only. Focuses on methods of making connections in which students will have the opportunity to engage in relevant interdisciplinary inquiry and practice. Field work required. Prerequisite: Open only to freshmen.

## Italian (Ital)

**101 Elementary Italian I. 4 Hours.** One-hour language laboratory required per week. For students without credit in Italian. Practice in listening and speaking. Development of writing and reading skills. Basic grammar.

**102 Elementary Italian II. 4 Hours.** One-hour language laboratory required per week. Continues Italian 101. Development of communication skills, using basic grammatical structures. Prerequisite: Ital 101 or placement by department.

**103 Intermediate Italian I. 4 Hours.** One-hour language laboratory required per week. Greater stress on writing and reading skills. Emphasis on accuracy in oral skills. Finer points of grammar. Prerequisite: Ital 102 or placement by department.

**104 Intermediate Italian II. 4 Hours.** One-hour language laboratory required per week. Continues Italian 103. Emphasis on writing and reading skills, without forgoing oral practice. Review of grammar. Prerequisite: Ital 103 or placement by department.

**180 Italian Cinema. 3 Hours.** Taught in English. Films screened with English subtitles. 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.

**190 Italian Literature in Translation I. 3 Hours.** No credit is given for Italian 190 if the student has credit in Italian 210. Does not count toward Italian major or minor. Development from origins through the seventeenth century. Discussion of major works of Boccaccio, Ariosto, Machiavelli.

**193 The Divine Comedy. 3 Hours.** Same as Catholic Studies 193 and Religious Studies 193. Taught in English. An in-depth study of the Divine Comedy, read in English, against the philosophical and theological background of the Middle Ages.

**196 Totalitarianism, Writing and Cinema. 3 Hours.** Same as French 196 and Spanish 196. Taught in English. Two additional hours for viewing films (every two weeks). 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. Prerequisite: Consent of the instructor.

**200 Conversational Italian. 3 Hours.** Language laboratory required. Intended for students of non-Italian background. Intensive practice in conversation to develop oral facility, enrich vocabulary, and improve pronunciation. Prerequisite: Ital 104 or placement by the department.

**201 Italian Composition and Conversation. 3 Hours.** Language laboratory required. Advanced conversation with emphasis on grammatical accuracy and pronunciation. Practice in translation and free composition. Prerequisite: Ital 200 or native speaker.

**210 Introduction to Reading and Analysis of Italian Literary Texts. 3 Hours.** Credit is not given for Italian 210 if the student has credit in either Italian 190 or 191. Close reading of Italian prose and poetry and training in writing of critical analyses. Prerequisite: Ital 104.

**230 Italian Culture and Civilization. 3 Hours.** Development of Italian culture from earliest times to the present: philosophy, art, architecture, music, society, cinema, electronic media. Prerequisite: Ital 201 or consent of the instructor.

**240 Rapid Italian Language for Spanish Speakers. 4 Hours.** Comparative linguistic differences between Spanish and Italian; practice in speaking, reading, and writing. Prerequisites: Native speaker of Spanish or any 200-level Spanish courses or consent of the instructor.

**303 Advanced Italian Composition and Conversation. 3 Hours.** Intensive training in oral and written expression based on the study of contemporary Italian texts. Grammar review. Prerequisite: Ital 201.

**305 Advanced Italian Grammar. 3 Hours.** Systematic study of syntax and morphology. Prerequisite: Ital 201 or consent of the instructor.

**310 Early Italian Literature and Society. 3 Hours.** 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: Ital 210 or consent of the instructor.

**311 Modern Italian Literature and Society. 3 Hours.** 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: Ital 210 or consent of the instructor.

**370 Writing and Research in the Major. 1 Hour.** Same as Spanish 370 and French 370. Required for majors in the Department. Perfecting writing and expository skills in English. Prerequisite: Junior or senior standing and approval of the department.

**399 Independent Study. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. For majors and minors in Italian who wish to supplement regular courses or undertake individual study projects. Prerequisite: Consent of the department.

**411 Literary Forms in Early Renaissance. 3 Hours.** The development of Epic Poetry (Pulci, Boiardo, Ariosto) within the literary, political, and social context (Machiavelli and Castiglione). Prerequisite: Ital 310 or consent of the instructor.

**412 Literary Forms in Late Renaissance and Baroque. 3 Hours.** 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. Prerequisite: Ital 310 or consent of the instructor.

**420 Modern Italian Literature I. 3 Hours.** Eighteenth-century theater: Metastasio, Goldoni, Alfieri. Literary development from Vico to Foscolo. Prerequisite: Ital 311 or consent of the instructor.

**421 Modern Italian Literature II. 3 Hours.** From Romanticism to Decadentism: emphasis on the work of Leopardi and Manzoni; analysis of poems by Carducci, Pascoli, D'Annunzio, Gozzano. Prerequisite: Ital 311 or consent of the instructor.

**422 Contemporary Italian Literature. 3 Hours.** 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. Prerequisite: Ital 322 or consent of the instructor.

**450 Divina Commedia I. 3 Hours.** An in-depth study of the Divine Comedy against the philosophical and theological background of the Middle Ages. Covers *Inferno* and half of *Purgatorio*. Prerequisite: Ital 310 or consent of the instructor.

**451 Divina Commedia II. 3 Hours.** An in-depth study of the Divine Comedy against the philosophical and theological background of the Middle Ages. Covers *Paradiso* and half of *Purgatorio*. Prerequisite: Italian 310 or consent of the instructor.

**460 Foreign Language Teaching Methodology. 3 Hours.** Same as French 481 and Spanish 450. Theories of second language learning. Evaluative procedures emphasizing oral proficiency testing, analysis of textbooks. Preparation and presentation of micro-lessons. Twenty hours of high school observation. Prerequisites: Junior standing and three courses at the 200 and 300 levels.

**461 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**462 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

## Japanese (Jpn)

- 101 Elementary Japanese I. 4 Hours.** Four additional half hours each week in the language laboratory. Basic grammar. Conversation. Reading and writing in the two Japanese syllabaries. Introduction to selected Chinese characters.
- 102 Elementary Japanese II. 4 Hours.** Four additional half hours each week in the language laboratory. Continuation of Japanese 101. Prerequisite: Jpn 101.
- 103 Intermediate Japanese I. 4 Hours.** Four additional half hours each week in the language laboratory. Completion of basic grammar. Practice in conversation. Reading and writing in the two Japanese syllabaries and in selected Chinese characters. Prerequisite: Jpn 102 or the equivalent.
- 104 Intermediate Japanese II. 4 Hours.** Four additional half hours each week in the language laboratory. Reading and writing of elementary prose using the two Japanese syllabaries. Reading and writing in selected Chinese characters. Prerequisite: Jpn 103 or the equivalent.
- 196 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Individual study under faculty direction for qualified students with special interests and needs. Prerequisite: Consent of the instructor.
- 215 Japanese Language and Culture. 3 Hours.** Same as Linguistics 215. 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.

## Jewish Studies (JSt)

- 101 Introduction to Jewish Studies: Humanities. 3 Hours.** 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.
- 102 Introduction to Jewish Studies: Social Science. 3 Hours.** 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.
- 115 Understanding the Bible as Literature. 3 Hours.** Same as English 115 and Religious Studies 115. 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.

**117 Understanding the Holocaust. 3 Hours.** Same as History 117. Holocaust of European Jewry as the result of anti-Semitic ideology and the development of modern German political forces; implementation of the Final Solution.

**122 Minority Perspectives in the Germanic Context. 3 Hours.** Same as German 122. Lectures, discussion, and readings in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Investigation of the challenges and/or opportunities of multicultural societies by examining in a socio-historical context texts created by members of Europe's ethnic, religious, and national minorities.

**123 Introduction to Yiddish Culture and Literature. 3 Hours.** Same as Germanic Studies 123. Lectures, discussion and readings in English. No credit toward a major or minor program offered by the Department of Germanic Studies. Yiddish culture in Europe and the U.S. in socio-historical context. Focus on the role of Yiddish in conceptions of secular, cultural, religious, national Jewish identities.

**243 Politics and Government of the Middle East. 3 Hours.** Same as Political Science 243. 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. Prerequisite: PolS 130 or PolS 190 or consent of the instructor.

**294 Topics in Jewish Studies. 3 Hours.** May be repeated for a maximum of 6 hours of credit. 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.

**394 Topics in Jewish Studies. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Selected topics in Jewish culture and history. Prerequisite: Consent of the instructor.

**478 The Bible as Literature. 3 Hours.** Same as English 478 and Religious Studies 478. 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. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.

**494 Topics in Jewish Studies. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Selected topics in Jewish Studies. Prerequisite: JSt 101 or 102 or consent of the instructor.

## Latin (Lat)

- 101 Elementary Latin I. 4 Hours.** One additional hour of computer-assisted instruction each week. For students who have no credit in Latin. Fundamentals of the Latin language. Grammar and reading.
- 102 Elementary Latin II. 4 Hours.** One additional hour of computer-assisted instruction each week. Continues Latin 101. Grammar and reading. Prerequisite: Lat 101 or the equivalent.
- 103 Intermediate Latin I. 4 Hours.** Introduction to Roman historians and oratory. Selections from Cicero, Sallust, Livy, and other Latin prose writers. Review of forms and grammar. Prerequisite: Lat 102 or the equivalent.

**104 Intermediate Latin II. 4 Hours.** Completes study of Latin at intermediate level. Latin poetry as well as prose, and grammar. Prerequisite: Lat 103 or the equivalent.

**299 Independent Reading. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Individual study under faculty direction. For students qualified by preparation and interest. Prerequisite: Lat 104 or the equivalent.

**499 Independent Reading. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Individual study under faculty direction. Prerequisite: 4 hours in Latin at the 200 level or the equivalent.

## Latin American and Latino Studies (LALS)

*Note: Previous name and rubric: Latin American Studies (LASI).*

**101 Introduction to Latin America in a World Context. 3 Hours.** Socio-economic, political, cultural formation of Latin America within a global context. Introduction to related concepts and problems.

**102 Introduction to Latino Cultural Studies. 3 Hours.** Latino migration, urbanization, acculturation - impacts on family, community, identity, and sex roles as expressed in ethnography, literature and/or visual and performing arts.

**103 Introduction to the Barrio. 3 Hours.** 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.

**104 Introduction to Puerto Rican Culture and Society. 3 Hours.** 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.

**105 Introduction to Mexican Studies. 3 Hours.** 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.

**106 Introduction to Contemporary Latin America. 3 Hours.** Introductory overview of contemporary Latin America: population, social structure, the economy, politics, social movements, the church, intellectual and cultural trends.

**107 Introduction to Andean Studies. 3 Hours.** Overview on the formation of modern Peru, Bolivia, and Ecuador (conquest, independence, and recent developments) and on literary works depicting and interpreting Andean issues.

**130 Introduction to Comparative Politics. 3 Hours.** Same as Political Science 130. Comparative study of political institutions, political culture, and political processes in selected major countries of the world.

**161 Introduction to Latin American History. 3 Hours.** Same as History 161. Introduction to major themes in Latin American history from pre-Colombian society and the European conquest to the present.



- 192 From the Convent to the Streets: Latin American Women Writers in Translation. 3 Hours.** Same as Gender and Women's Studies 192 and Spanish 192. Taught in English. No credit toward any major or minor program in Spanish. 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.
- 200 Expository Writing on Latin American and Latino Topics. 1 Hour.** For Latin American and Latino studies majors only. Must be taken concurrently with the first or second 200-level Latin American and Latino Studies course taken after declaration of the major. Perfecting writing and expository skills in English.
- 217 Human Geography of Latin America Including the Caribbean Region. 3 Hours.** Same as Geography 203. Culture, settlement, political and economic development problems in Latin America, with special attention to Puerto Rico, the Caribbean Region, and Mexico.
- 225 Racial and Ethnic Groups. 3 Hours.** Same as Sociology 225. 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. Prerequisite: Soc 100 or consent of the instructor.
- 227 Spain: 1469-1808. 3 Hours.** Same as History 227. The political, socioeconomic, and cultural development of Spain from the reign of Ferdinand and Isabella to the War of Independence.
- 228 Spain Since 1808. 3 Hours.** Same as History 228. Loss of the colonies, liquidation of the Ancien Regime, national integration, sociopolitical polarization, the Civil War, and the Franco regime.
- 233 Latinos in Chicago I. 3 Hours.** Development and dynamics of Chicago's Mexican, Puerto Rican, Cuban, Central and South American communities: settlement, demographics, economics, culture, social institutions and political participation.
- 234 Latinos in Chicago II. 3 Hours.** Contemporary issues, organizations, and activities of Latinos in Chicago.
- 238 Pre-Columbian Art and Architecture. 3 Hours.** Same as Art History 272. Survey of the art and architecture of the indigenous peoples of Mexico, Central, and South America from 2000 B.C. to the Spanish Conquest in the 1500's. Includes Maya, Aztec, and Inca cultures. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 239 Pre-Columbian Art of South America. 3 Hours.** Same as Art History 273. The art and architecture of the Andean, southern Central American, and Caribbean cultures from 3000 B.C. to the sixteenth century, from pre-Chavin through Inca. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 240 Pre-Columbian Art of Mesoamerica. 3 Hours.** Same as Art History 274. The art and architecture of prehispanic peoples of Mexico and northern Central America, including Olmec, Teotihuacan, Maya, Zapotec, and Aztec cultures. Prerequisite: 3 hours of art history at the 100 level or consent of the instructor.
- 242 Government and Politics of Latin America. 3 Hours.** Same as Political Science 242. An examination of government and politics in selected Latin American countries. Comparative and historical analysis of dictatorship, democracies, political institutions, and parties. Prerequisite: Any 100-level course in Latin American and Latino studies or political science.
- 251 History of Race Relations in America. 3 Hours.** Same as African-American Studies 200 and History 251. An examination of American racial thought and racial discrimination to determine how the content and function of both have changed over time.
- 255 South American Indians. 3 Hours.** Same as Anthropology 275. Social and cultural practices of the native peoples of the Amazonian tropical forest and the Andes.
- 257 Archaeology of North America. 3 Hours.** Same as Anthropology 226. Introduction to the prehistoric cultures of North America from earliest times until the arrival of Europeans. Prerequisite: Anth 102 or consent of the instructor.
- 258 Ancient Civilizations of Mexico and Central America. 3 Hours.** Same as Geography 207 and Anthropology 227. 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. Prerequisite: Anth 102 or sophomore standing or consent of the instructor.
- 259 Ancient Civilizations of South America. 3 Hours.** Same as Anthropology 228. Analysis, interpretations, and explanations of the developmental process and social institutions of indigenous civilizations of South America. Emphasis on the origins of sedentary life, the evolution of cities, and the dynamics of the native Andean states. Prerequisite: Anth 102 or sophomore standing or consent of the instructor.
- 261 Latin America to 1850. 3 Hours.** Same as History 261. A survey of the pre-Columbian and early national periods.
- 262 Latin America Since 1850. 3 Hours.** Same as History 262. Latin American socioeconomic, political, and cultural development since 1850 with emphasis on major countries and regions.
- 265 Mexico: 1400-1850. 3 Hours.** Same as History 265. Social, economic, political and cultural development of Mexican society from pre-Hispanic roots through Spanish conquest to independence and its aftermath.
- 266 Mexico Since 1850. 3 Hours.** Same as History 266. Revolution and evolution in the making of modern Mexican society.
- 267 Andean Societies. 3 Hours.** National societies in the Andes: Ecuador, Peru, Bolivia and Colombia. Study of social classes, Andean peasantry, rural context; race, ethnicity and gender; political institutions, social movements and identity.
- 270 Ethnography of Meso-America. 3 Hours.** Same as Anthropology 277. Survey of the contemporary indigenous cultures of Mesoamerica, studied against their pre-conquest history and in their development since the Spanish Conquest.
- 272 Brazil: A Multi-Ethnic Society. 3 Hours.** Same as Anthropology 278. 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.
- 273 Central American Cultural and Literary Studies. 3 Hours.** Central American history by individual countries and as a region, through the perspective of cultural, ideological and literary developments.
- 274 Caribbean Cultural and Literary Studies. 3 Hours.** Same as African-American Studies 274 and English 274. An integrated view of Spanish, French, English, and Dutch Caribbean culture and literature placing similarities and differences in historical, political, and ideological contexts.
- 275 Latin American Women. 3 Hours.** Same as Political Science 275 and Gender and Women's Studies 275. Latin American women in historical perspective from pre-Columbian and Iberian societies to the present.
- 276 Latinas in the United States. 3 Hours.** Same as Sociology 226 and Gender and Women's Studies 276. Socioeconomic conditions and cultural experiences of Latinas in the U.S. Historical and contemporary views of labor, health, education, family, identity formation and leadership.
- 277 Issues of Race, Class, and Gender Among Latinos. 3 Hours.** 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.
- 278 Latin American/Latino Film Studies. 3 Hours.** 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.
- 283 Latino Politics in the United States. 3 Hours.** Same as Political Science 209. Latino politics and politicians in the context of the American political system. The political system, Latino participation, experience, and research on political processes.
- 285 Latino Social Movements in the United States. 3 Hours.** Social movements and public action by Latinos in the United States. Includes farmworkers' organizing, unionization efforts, nationalist movements, feminism, struggles, and community debates.
- 286 Issues in Latino Identity. 3 Hours.** This course 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.
- 288 History of Modern Puerto Rico. 3 Hours.** Same as History 288. Survey of political and socioeconomic history from 1868 to the present.
- 290 History of the Mexican People in the United States. 3 Hours.** Same as History 290. The political, social, economic, and cultural development of the Mexican people in the U.S. from colonial times until the present.



- 295 Latino Literary Studies. 3 Hours.** Same as English 295. Major trends, genres, works, themes, and writers related to Latino history and culture, mainstream and minority U.S., Latin American and Third World literatures.
- 299 Independent Study. 3 to 6 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Individual reading or research project and paper in Latin American or U.S. Latino studies, with instructor's consent and supervision. Prerequisites: A 3.50 grade point average. Open to undergraduate students with consent of the appropriate instructor and the Latin American and Latino studies director.
- 348 Seminar: Political Problems of Developing Societies. 3 Hours.** Same as Political Science 348. Selected aspects of the politics and countries of Asia, Africa and Latin America. Prerequisites: PoLS 130 and 200; or consent of the instructor.
- 409 Ancient Maya Writing, Language and Culture. 3 Hours.** Same as Anthropology 409. Recent trends in Maya epigraphy, information gained from Maya hieroglyphs, linguistics, and historical ethnographies are applied to anthropological analyses of past lifeways. Prerequisite: Junior standing or above; and consent of the instructor.
- 427 Studies in Language Policy and Cultural Identity. 3 Hours.** Same as Spanish 427. Taught in English. Previously listed as LAST 330 or LALS 330. 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. Prerequisite: LALS 101; and junior standing or above; and consent of the instructor. Reading and writing knowledge of Spanish.
- 434 Global Communication Systems. 3 Hours.** Same as Communication 434. 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. Prerequisite: Comm 300 or approval of the department.
- 461 Topics in Latin American History. 3 Hours.** Same as History 461. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history, Latin American and Latino studies, or consent of the instructor.
- 475 Problems of South American Ethnology. 3 Hours.** Same as Anthropology 475. Intensive reading and research in theoretical and ethnographic problems in South American Indian social structures and cultures. Special attention will be given to the influence of Levi-Strauss' ideas on the formulation of cultural theory in South America. Prerequisite: Anth 213 or consent of the instructor.
- 491 Interdisciplinary Seminar in Latin American Studies. 3 Hours.** May be repeated for credit if topic is different for each registration. 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. Prerequisite: Latin American and Latino studies major or consent of the instructor.

- 493 Seminar in Latin American/Latino Cultural Studies. 3 Hours.** Latin American/Latino cultural studies theory and method: everyday life and popular culture, related to socio-economic, political, transcultural/transnational processes. Postmodern, postcolonial and subaltern perspectives. Prerequisite: LALS 101 or 102 or consent of the instructor.
- 495 Topics in Latino Community Studies. 3 Hours.** May be repeated for credit if topic is different for each registration. In-depth study of Latino communities and current issues from an interdisciplinary perspective, with emphasis on the learning and use of investigative methodologies. Prerequisite: Latin American and Latino studies major or consent of the instructor.
- 499 Advanced Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Students may register for more than one section per term. Individual advanced reading or research project in Latin American or U.S. Latino studies, with instructor's consent and supervision. Prerequisite: Open, with consent of the instructor, to graduate students and Latin American and Latino studies majors with at least a 4.00 grade point average. Students in other programs or with lower than 4.00 grade point average are admitted at the instructor's discretion only.

## Liberal Arts and Sciences (LAS)

- 100 Freshman Seminar: Introduction to University Study. 1 Hour.** For freshmen only. Meets during the first 10 weeks of the term. 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.
- 289 Cooperative Education: Off Campus. 0 Hours.** Satisfactory/unsatisfactory grade only. Offers students the opportunity to couple academic learning with career-related experience in an off-campus placement. Prerequisites: Declaration of a major, a cumulative grade point average of 3.50, completion of 40 hours of course work, and approval of the major department and the LAS Cooperative Education Office.
- 299 Liberal Arts and Sciences Study Abroad. 0 to 12 Hours.** 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. Provides credit for foreign study. A 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. Prerequisites: Permission of the student's major department and the college office.
- 301 Seminar in International Studies. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Seminar in international studies addressing global themes and issues. Content varies. Specific topics are announced each term. Prerequisite: Junior standing or consent of the instructor.

- 395 The Newberry Library Undergraduate Seminar. 6 Hours.** May be repeated for credit if the topic is different for each registration. Seminar with a topic related to the holdings of the Newberry Library. Classes held in the Newberry Library. Topics vary. Prerequisite: Consent of UIC's Newberry Library seminar coordinator.
- 494 Topics in Cultural Studies. 3 Hours.** Taught at the Field Museum. May be repeated for credit if topic is different for each registration. An interdisciplinary approach to a current cultural debate. Topics will vary.

## Linguistics (Ling)

- 150 Introduction to the Study of Language. 3 Hours.** The nature of human language and its grammatical, social, and biological aspects are covered.
- 160 Language and Society. 3 Hours.** Language and its social context: linguistic variation in the community, types of linguistic interaction, language as a reflection of its social origins.
- 161 Languages and Ethnicities in American History. 3 Hours.** Interpretation, assessment, and appreciation of ideas and values related to the roles of languages and ethnicities in American history.
- 170 Languages of the World. 3 Hours.** A survey of the world's languages: their cultural origins, relationships, similarities, and differences.
- 201 Classical Etymology in the Life Sciences. 3 Hours.** Same as Classics 201. The structure and formation of technical terms used in the health sciences, based on roots and elements from Greek and Latin. Prerequisite: Any 100-level biological sciences sequence.
- 215 Japanese Language and Culture. 3 Hours.** Same as Japanese 215. 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.
- 260 Language Acquisition, Language Contact and Bilingualism. 3 Hours.** 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: Sophomore standing or above. Credit in Ling 150, 160, 161 or a similar course is recommended.
- 340 Language, Gender and Society. 3 Hours.** Same as Gender and Women's Studies 340. Previously listed as Gender and Women's Studies 256 and Linguistics 256. Relationships between language and gender in society, including mutual influences between social roles and linguistic systems, gender differences in language use and interaction, and cross-cultural comparisons of language and gender.
- 402 Trial Interaction. 3 Hours.** Same as Criminal Justice 402. Language use, culture, and law in the trial process. Analysis of qualitative methods applied to legal processes and change. Prerequisites: CrJ 261 and 350; or consent of the instructor.
- 405 Introduction to General Linguistics. 3 Hours.** Introduction to the theories and methods of the phonological, morphological, and syntactic analysis of language. The historical development of languages. Language use. Prerequisite: Junior standing.

**415 Linguistic Structures I. 3 Hours.**

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.

**425 Linguistic Structures II. 3 Hours.**

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.

**440 Semantics. 3 Hours.**

Introduction to the theories and methods of semantic analysis.

Prerequisites: Ling 405, or junior standing and consent of the instructor.

**453 Dialectology. 3 Hours.**

Geographical and social variations in language. Prerequisites: Ling 410, or junior standing and consent of the instructor.

**459 Topics in Linguistics. 3 Hours.**

May be repeated for a maximum of 9 hours of undergraduate credit or 12 hours of graduate credit. Students may register for more than one section per term. Topics vary. Prerequisite: Consent of the instructor.

**474 Psychology of Language. 3 Hours.**

Same as Communication 454 and Psychology 454. Introductory survey of methods, theory, and research; linguistic foundations, history, and present status of the field. Prerequisite: Graduate standing or consent of the instructor.

**480 Sociolinguistics. 3 Hours.**

Same as Anthropology 480. Variations in language that correlate with variation in societies and smaller social groups; interactions of languages and societies. Prerequisites: Ling 405, or junior standing and consent of the instructor.

**482 Ethnography of Communication. 3 Hours.**

Same as Communication 480. Qualitative methods course on the formal organization/representation of cognitive systems; analysis of language and culture patterns. Prerequisites: Comm 101; and at least two from Comm 211, 212, 213, 230, 235, 315; or consent of the instructor.

**483 Methodology of TESOL. 3 Hours.**

Same as Curriculum, Instruction, and Evaluation 483. Methods of teaching listening, speaking, reading, and writing to speakers of English as a second or foreign language. Prerequisites: Junior standing and consent of the instructor.

**490 Communication, Culture, and Society. 3 Hours.**

Same as Communication 490. Analysis of contrastive cultural paradigms (interethnic, gender, class) to develop student's awareness of own socialization and cultural orientation. Prerequisites: Comm 201 and 203 and at least two 300- or 400-level communication courses; or approval of the department.

**496 Independent Study. 1 to 4 Hours.**

May be repeated for a maximum of 6 hours of undergraduate credit or 8 hours of graduate credit. Students may register for more than one section per term. Satisfactory/unsatisfactory grade only. 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. Prerequisites: 9 hours of linguistics and approval of the head of the department.

**Lithuanian (Lith)****101 Elementary Lithuanian I. 4 Hours.**

Four additional half hours each week in the language laboratory. For students who have had no formal work in Lithuanian. Phonetics, introductory grammar and reading.

**102 Elementary Lithuanian II. 4 Hours.**

Four additional half hours each week in the language laboratory. Continues Lithuanian 101. Prerequisite: Lith 101 or the equivalent.

**103 Intermediate Lithuanian I. 4 Hours.**

Continues Lithuanian 102. Prerequisite: Lith 102 or the equivalent.

**104 Intermediate Lithuanian II. 4 Hours.**

Continues Lithuanian 103. Prerequisite: Lith 103 or the equivalent.

**115 Lithuanian Culture. 3 Hours.**

Knowledge of Lithuanian is not required. A thematic study of Lithuanian culture from antiquity to the present in an historical and political context.

**130 Lithuanian Prose Fiction in International Context. 3 Hours.**

Taught in English. Analysis of Lithuanian prose fiction with reference to its major influences from Europe, North and South America; the development of international style.

**221 Lithuanian Literature I. 3 Hours.**

Taught in English. Reading and analysis of the works of selected nineteenth- and twentieth-century authors. The evolution of Lithuanian literature up to 1940.

**222 Lithuanian Literature II. 3 Hours.**

Reading and analysis of the works of selected authors from 1940 to the present. Prerequisite: Lith 221.

**230 Lithuanian Literature Abroad. 3 Hours.**

Taught in English. Lithuanian writers in exile; themes, trends in development, comparison with writers in Soviet Lithuania; influences of the new environment, writing in English.

**399 Independent Study. 1 to 3 Hours.**

May be repeated for a maximum of 6 hours of credit. Investigation of special problems under the general direction of a staff member. Prerequisites: Junior standing and consent of the instructor and the head of the department.

**410 Structure of Lithuanian. 3 Hours.**

Synchronic analysis of the structure of Lithuanian; emphasis on discourse analysis of oral and written texts. Prerequisite: 18 hours of Lithuanian or the equivalent or Ling 405.

**425 Translation of Lithuanian Texts. 3 Hours.**

Problems of translating Lithuanian texts; workshop in translating Lithuanian works into English. Prerequisite: Lith 302 or consent of the instructor.

**499 Independent Study. 1 to 4 Hours.**

May be repeated for a maximum of 8 hours of credit. Graduate students may register for more than one section per term; undergraduates may only register for one section per term. Investigation of special problems under the general direction of a staff member. Prerequisites: Senior or graduate standing and consent of the instructor and the head of the department.

**Mathematical Computer Science (MCS)****260 Introduction to Computer Science. 4 Hours.**

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: Credit or concurrent registration in Math 180.

**261 Discrete Mathematics. 3 Hours.**

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. Prerequisites: Grade of C or better in Math 180 and in either MCS 260 or CS 102.

**275 Programming Tools and File Management. 4 Hours.**

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. Prerequisites: Grade of C or better in Math 180 and in either MCS 260 or CS 102.

**294 Special Topics in Computer Science. 1 to 4 Hours.**

May be repeated for credit. Course content is announced prior to each term in which it is given. Prerequisite: Approval of the department.

**320 Introduction to Symbolic Computation. 3 Hours.**

Introduction to computer algebra systems (MAPLE), symbolic computation, and mathematical algorithms employed in such computation, with examples and applications to topics in undergraduate mathematics. Prerequisites: Grade of C or better in Math 210; and in MCS 260 or CS 102 or CS 108.

**360 Introduction to Data Structures. 4 Hours.**

Pointers and dynamic memory allocation in C/C++, recursion, stacks, queues, heaps, binary and multi-way trees, graphs, hash tables. Sorting and searching algorithms. Prerequisite: Grade of C or better in MCS 261 and 275.

**394 Special Topics in Computer Science. 2 to 4 Hours.**

May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which it is given. Prerequisite: Approval of the department.

**401 Computer Algorithms I. 3 Hours.**

Same as Computer Science 401. 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. Prerequisites: Grade of C or better in Stat 381 and MCS 360; or CS 202.

**411 Compiler Design. 3 Hours.**

Same as Computer Science 473. Language translation: lexical analysis, parsing schemes, symbol table management, syntax and semantic error detection, and code generation. Development of fully-functional compiler. Prerequisites: Grade of C or better in either CS 301 or MCS 441, and in either CS 202 or MCS 360 and CS 266.

**415 Programming Language Design. 3 Hours.** Same as Computer Science 476. 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. Prerequisites: MCS 360 or CS 340.

**421 Combinatorics. 3 Hours.** The pigeonhole principle, permutations and combinations, generating permutations and combinations, binomial coefficients, inclusion-exclusion principle, recurrence relations and generating functions, special counting sequences, Polya theory of counting. Prerequisites: Grade of C or better in MCS 261 or CS 202; and in Math 310 or 320 or 330.

**423 Graph Theory. 3 Hours.** Basic concepts of graph theory including Eulerian and hamiltonian cycles, trees, colorings, connectivity, shortest paths, minimum spanning trees, network flows, bipartite matching, planar graphs. Prerequisites: Grade of C or better in MCS 261 or CS 202; and in Math 310 or 320 or 330.

**425 Codes and Cryptography. 3 Hours.** 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. Prerequisites: Grade of C or better in MCS 261 or CS 202; and in Math 310 or 320 or 330.

**441 Theory of Computation I. 3 Hours.** Introduction to formal languages; relations between grammars and automata; elements of the theory of computable functions. Prerequisite: Grade of C or better in MCS 261 or CS 202.

**451 Object-Oriented Programming in C++ . 3 Hours.** Credit is not given for Mathematical Computer Science 451 if the student has credit in Computer Science 474. Extensive computer use required. C++ as an object-oriented language, classes, member functions, access control, class scope, constructors, destructors, overloading, conversions, streams, derived classes, polymorphism through virtual functions, templates, class libraries. Prerequisite: Grade of C or better in MCS 360 or the equivalent; or consent of the instructor.

**471 Numerical Analysis. 3 Hours.** 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. Prerequisites: Grade of C or better in MCS 275 or in CS 102 or 108, or consent of the instructor.

**481 Computational Geometry. 3 Hours.** Algorithmic problems on sets of points, rectangles, intervals, arcs, chords, polygons. Counting, reporting, location, intersection, pairing; static and dynamic data structures. Prerequisite: Grade of C or better in MCS 401 or consent of instructor.

**494 Special Topics in Computer Science. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Topics in mathematical computer science, such as symbolic computation, automated reasoning, cryptography or geometric algorithms. Prerequisite: Approval of the department.

**496 Independent Study. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Reading course supervised by a faculty member. Prerequisites: Approval of the instructor and the department.

## Mathematics (Math)

**070 Elementary Mathematics. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Not open to students with credit in Mathematics 090, 092 or a mathematics course at or above the 100 level. Rational operations and arithmetic, fundamental operations of algebra, linear equations and polynomials, graphing. Prerequisite: Eligibility determined by performance on the department placement test.

**090 Intermediate Algebra. 5 Equivalent Hours. 0 Academic Hours.** No graduation credit. Not open to students with credit in Mathematics 092 or a mathematics course at or above the 100 level. Linear equations, rational expressions, quadratic equations, graphing, exponentials and logarithms, systems of linear equations. Prerequisite: Grade of C or better in Math 070 or appropriate performance on the department placement test.

**092 Intermediate Algebra with Cooperative Preparatory Chemistry. 5 Equivalent Hours. 0 Academic Hours.** No graduation credit. Not open to students with credit in Mathematics 090, Chemistry 101, or a mathematics course at or above the 100 level. Linear equations, quadratic equations, rational expressions, exponentials and logarithms, factoring, graphing, and systems of linear equations; chemical applications used throughout the course. Prerequisites: Grade of C or better in Math 070 or appropriate performance on the UIC mathematics placement examination, and concurrent registration in Chem 102.

**118 Mathematical Reasoning. 5 Hours.** Not open to students with credit in any one of Mathematics 090, 092, 121, 150, 160, 165, 180, or the equivalent. 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 does not replace Math 090 as a prerequisite for any other mathematics department course. 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. Prerequisite: Grade of C or better in Math 070 or the equivalent or appropriate performance on the department placement test.

**121 Precalculus Mathematics. 5 Hours.** No credit for students who have credit in Mathematics 165, 180, or 205. No graduation credit for architecture, business administration, or engineering students. Logarithms, radicals, graphing of rational functions, complex numbers, trigonometry, DeMoivre's formula, theory of equations, sequences, systems of linear equations. Prerequisite: Grade of C or better in Math 090 or 092; or appropriate performance on the department placement test.

**122 Emerging Scholars Workshop for Precalculus Mathematics. 1 Hour.** Satisfactory/Unsatisfactory grade only. Intensive math workshop for students enrolled in Math 121. Students work together in groups to solve challenging problems. Prerequisites: Admission to the Emerging Scholars Program and concurrent registration in designated sections of Math 121.

**123 Quantitative Reasoning. 5 Hours.** Not open to students with credit in any one of Mathematics 090, 092, 121, 150, 160, 165, 180, or the equivalent. No graduation credit for architecture, business administration, or engineering students. 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. Prerequisite: Grade of C or better in Math 118.

**140 Arithmetic and Algebraic Structures. 4 Hours.** 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: Grade of C or better in Math 090 or 092; or appropriate performance on the department placement test.

**141 Algebraic and Geometric Structures. 4 Hours.** 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. Prerequisite: Grade of C or better in Math 140.

**145 Effective Thinking from Mathematical Ideas. 4 Hours.** 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: Grade of C or better in Math 090 or 092; or appropriate performance on the department placement test; or consent of the instructor.

**150 Finite Mathematics. 3 Hours.** Credit is not given for Mathematics 150 if the student has credit in Mathematics 160. Logic, sets, counting techniques, probability, vectors and matrices, computer programming. Prerequisite: Grade of C or better in Math 090, 092 or 121; or appropriate performance on the department placement test.

**160 Finite Mathematics for Business. 5 Hours.** Credit is not given for Mathematics 160 if the student has credit in Mathematics 150. Introduction to probability, statistics, and matrices, with emphasis on business applications. Prerequisite: Grade of C or better in Math 090, 092 or 121; or appropriate performance on the department placement test.

**165 Calculus for Business. 5 Hours.** Credit is not given for Mathematics 165 if the student has credit in Mathematics 180. Introduction to differential calculus of algebraic, exponential, and logarithmic functions and techniques of partial derivatives and optimization. Emphasis on business applications. Prerequisite: Grade of C or better in Math 090, 092, or 121; or appropriate performance on the department placement test.



- 179 Emerging Scholars Workshop for Calculus I. 1 Hour.** Satisfactory/Unsatisfactory grade only. Intensive math workshop for students enrolled in Math 180. Students work together in groups to solve challenging problems. Prerequisite: Admission to the Emerging Scholars Program and concurrent registration in designated sections of Math 180.
- 180 Calculus I. 5 Hours.** Credit is not given for Mathematics 180 if the student has credit in Mathematics 165. Differentiation, curve sketching, maximum-minimum problems, related rates, mean-value theorem, antiderivative, Riemann integral, logarithm, and exponential functions. Prerequisite: Grade of C or better in Math 121 or appropriate performance on the department placement test.
- 181 Calculus II. 5 Hours.** Techniques of integration, arc length, solids of revolution, applications, polar coordinates, parametric equations, infinite sequences and series, power series. Prerequisite: Grade of C or better in Math 180.
- 182 Emerging Scholars Workshop for Calculus II. 1 Hour.** Satisfactory/Unsatisfactory grade only. Intensive math workshop for students enrolled in Math 181. Students work together in groups to solve challenging problems. Prerequisite: Admission to the Emerging Scholars Program and concurrent registration in designated sections of Math 181.
- 194 Special Topics in Mathematics. 1 to 4 Hours.** May be repeated for credit. Course content is announced prior to each term in which it is given. Prerequisite: Approval of the department.
- 205 Advanced Mathematics for Business. 5 Hours.** For students in the College of Business Administration; others by approval of the department. Introduction to integral calculus and its applications; probability, random variables, distributions (using calculus); linear algebra and applications; optimization. Prerequisite: Grade of C or better in Math 160; and in either Math 165 or 180.
- 210 Calculus III. 3 Hours.** 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. Three hours of lecture-discussion and one hour of laboratory per week. Prerequisite: Grade of C or better in Math 181.
- 211 Emerging Scholars Workshop for Calculus III. 1 Hour.** Satisfactory/Unsatisfactory grade only. Intensive math workshop for students enrolled in Math 210. Students work together in groups to solve challenging problems. Prerequisite: Admission to the Emerging Scholars Program and concurrent registration in Math 210.
- 215 Introduction to Advanced Mathematics. 3 Hours.** Introduction to methods of proofs used in different fields in mathematics. Prerequisite: Grade of C or better in Math 181 and approval of the department.
- 220 Introduction to Differential Equations. 3 Hours.** 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: Grade of C or better in Math 210.
- 294 Special Topics in Mathematics. 1 to 4 Hours.** May be repeated for credit. Course content is announced prior to each term in which it is given. Prerequisite: Approval of the department.
- 300 Writing for Mathematics. 1 Hour.** Fulfills Writing in the Discipline requirement. Prerequisites: 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.
- 310 Applied Linear Algebra. 3 Hours.** Credit is not given for both Mathematics 310 and 320. Matrices, Gaussian elimination, vector spaces, LU-decomposition, orthogonality, Gram-Schmidt process, determinants, inner products, eigenvalue problems, applications to differential equations and Markov processes. Prerequisite: Grade of C or better in Math 210.
- 320 Linear Algebra I. 3 Hours.** Credit is not given for both Mathematics 310 and 320. Linear equations, Gaussian elimination, matrices, vector spaces, linear transformations, determinants, eigenvalues, and eigenvectors. Prerequisites: Grade of C or better in Math 210; and a grade of C or better in Math 215 or a grade of C or better in MCS 261 or grade of C or better in MTHT 410.
- 330 Abstract Algebra. 3 Hours.** Sets, properties of integers, groups, rings, fields. Prerequisite: Grade of C or better in Math 320 or grade of C or better in Math 310; and grade of C or better in Math 215 or grade of C or better in MCS 261 or grade of C or better in MTHT 410.
- 394 Special Topics in Mathematics. 2 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which it is given. Prerequisite: Approval of the department.
- 410 Advanced Calculus I. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 210.
- 411 Advanced Calculus II. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 410.
- 413 Analysis I. 3 Hours.** The real number system, continuous functions, differentiability, the Riemann integral. Prerequisite: Grade of C or better in Math 215 or consent of the instructor.
- 414 Analysis II. 3 Hours.** Sequences and series of functions. Uniform convergence. Taylor's theorem. Real valued functions of several variables, curves and vector fields, line and surface integrals. Prerequisite: Grade of C or better in Math 413.
- 417 Complex Analysis with Applications. 3 Hours.** Complex numbers, analytic functions, complex integration, Taylor and Laurent series, residue calculus, branch cuts, conformal mapping, argument principle, Rouche's theorem, Poisson integral formula, analytic continuation. Prerequisite: Grade C or better in Math 210.
- 419 Models in Applied Mathematics. 3 Hours.** Introduction to mathematical modeling; scaling, graphical methods, optimization, computer simulation, stability, differential equation models, elementary numerical methods, applications in biology, chemistry, engineering and physics. Prerequisites: Grade of C or better in Math 220 and in MCS 260.
- 425 Linear Algebra II. 3 Hours.** Canonical forms of a linear transformation, inner product spaces, spectral theorem, principal axis theorem, quadratic forms, special topics such as linear programming. Prerequisite: Grade of C or better in Math 320.
- 427 Analysis in Several Variables. 3 Hours.** Properties of Cartesian  $n$ -space the derivative, inverse and implicit function theorems, extrema, line integrals, vector calculus theorems, change of variables, differential forms, generalized Stokes's theorem. Prerequisites: Grade of C or better in Math 320, and one course from Math 410, 411, 413, 414.
- 430 Formal Logic I. 3 Hours.** Credit is not given for both Mathematics 430 and Philosophy 416. First order logic, syntax and semantics, completeness-incompleteness. Prerequisite: Grade of C or better in MCS 261 or Math 320 or CS 202.
- 435 Foundations of Number Theory. 3 Hours.** Primes, divisibility, congruences, Chinese remainder theorem, primitive roots, quadratic residues, quadratic reciprocity, and Jacobi symbols. The Euclidean algorithm and strategies of computer programming. Prerequisite: Grade of C or better in Math 210.
- 436 Number Theory for Applications. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 435.
- 442 Differential Geometry of Curves and Surfaces. 3 Hours.** Frenet formulas, isoperimetric inequality, local theory of surfaces, Gaussian and mean curvature, geodesics, parallelism, and the Gauss-Bonnet theorem. Prerequisites: Grade of C or better in either Math 410 or 427; and Math 320.
- 445 Introduction to Topology I. 3 Hours.** Elements of metric spaces and topological spaces including product and quotient spaces, compactness, connectedness, and completeness. Examples from Euclidean space and function spaces. Prerequisites: Grade of C or better in Math 410 or 411 or 413.
- 446 Introduction to Topology II. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 445.
- 480 Applied Differential Equations. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 220.



**481 Applied Partial Differential Equations. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 220.

**494 Special Topics in Mathematics. 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which it is given. Prerequisite: Approval of the department.

**496 Independent Study. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Reading course supervised by a faculty member. Prerequisites: Approval of the instructor and the department.

## Mathematics Teaching (MthT)

**400 Methods of Teaching Secondary Mathematics I. 3 Hours.** To be taken in year prior to student teaching. Philosophies, issues, techniques, and styles of teaching high school mathematics. Implications of psychological models. Mathematics in the evolving curriculum. Preparation of lessons. Prerequisites: Grade of C or better in MthT 410, good academic standing in the B.S. or M.S. in the Teaching of Mathematics program in Secondary Mathematics Education, and a 3.50 grade point average in mathematics courses at the level of calculus or above.

**401 Methods of Teaching Secondary Mathematics II. 3 Hours.** To be taken in the year prior to student teaching. Philosophies, issues, techniques, and styles of teaching high school mathematics. Preparation of diverse lessons. Supervised teaching experience. Prerequisites: Grade of C or better in Math 210 and enrollment in the B.S. or M.S. in the Teaching of Mathematics program in Secondary Mathematics Education; and a 3.50 grade point average in mathematics courses at the level of calculus or above.

**410 Advanced Euclidean Geometry I. 3 Hours.** A transformational approach to the geometry of the Euclidean plane is developed through the use of specific activities. Prerequisite: Grade of C or better in Math 210.

**411 Advanced Euclidean Geometry II. 3 Hours.** Axioms for Euclidean geometry are developed based upon reflections. Further concepts in Euclidean geometry that arise from these axioms are explored. Prerequisite: Grade of C or better in MthT 410.

**420 Methods of Structured Programming I. 3 Hours.** Structured programming teaching aids such as Karel the Robot and ELAN0, data types, control structures, procedures, functions, efficiency of algorithms, arrays and recursion. Prerequisite: Grade of C or better in Math 210.

**430 Mathematical Analysis for Teachers I. 4 Hours.** Basic properties of numbers, functions, graphs, limits, continuity, completeness of the system of real numbers. Prerequisites: Grade of C or better in Math 210 or consent of the instructor.

**438 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 3.50 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.

**439 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Credit or concurrent registration in MthT 438, approval of the department, a 3.50 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.

**450 Concepts in Elementary School Mathematics I. 3 Hours.** For elementary school teachers. Advanced analysis of concept development and teaching methods. Sorting, classifying, counting, number tracks, addition, subtraction, group, place value, length, area, and alternative teaching strategies. Prerequisite: Graduate standing and admission to the M.S. in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

**460 Geometric Measurement and Numerical Methods. 3 Hours.** Do not purchase a calculator for the course until after the first day of class. Classical problems of length, area, and volume, including numerical trigonometry, are explored using a scientific calculator. Prerequisite: Admission to the M.S. in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

**465 Teaching Algebra for Understanding. 3 Hours.** Manipulatives and other representations of mathematical concepts used for teaching algebra to middle grade students. Prerequisite: Admission to the M.S. in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

**466 Introduction to Calculus and the Graphing Calculator. 4 Hours.** 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: Admission to the mathematics education concentrators program or consent of the instructor.

**467 Introduction to Number Theory with Application. 4 Hours.** 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: Admission to the mathematics education concentrators program or consent of the instructor.

**468 Geometry with Applications for Middle Grade Teachers. 4 Hours.** 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: Admission to the mathematics education concentrators program or consent of the instructor.

**470 Teaching Mathematics with Science: An Activity Approach I. 3 Hours.** For elementary school teachers. Introduction to basic variables (length, area, volume, mass, time) and the scientific method (picture, table, graph, questions). Extensive use of TMS project curriculum. Prerequisites: Graduate standing and admission to the M.S. in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

**480 Microcomputers in Elementary School Mathematics I. 3 Hours.** For elementary school teachers. Introduction to microcomputers and their use in elementary school mathematics. Basic microcomputer functions, educational software programs, pedagogical and curricular implications, and implementation questions. Prerequisite: Admission to the M.S. in the Teaching of Mathematics program (Option for Elementary School Teachers) or consent of the instructor.

**490 Topics in Teaching Secondary Mathematics. 1 to 5 Hours.** May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which it is given. Prerequisite: Prerequisite may vary according to topic.

**491 Topics in Teaching Elementary/Junior High School Mathematics. 1 to 5 Hours.** May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which it is given. Prerequisite: Prerequisite may vary according to topic.

**496 Independent Study. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Reading course supervised by a faculty member. Prerequisites: Approval of the instructor and the department.

## Native American Studies (NAsT)

**112 Introduction to Native American Literatures. 3 Hours.** Same as English 112. An introduction to the oral and written literatures of American Indians.

**113 Native American Studies: Sovereignty. 3 Hours.** 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.

**471 Studies in Native American Literatures. 3 Hours.** Same as English 471. May be repeated for a maximum of 6 hours of credit. The history and development of literature by and about American Indians. Content varies. Prerequisite: Senior standing or 6 hours of English, African-American studies, or Latin American studies.

## Natural Sciences (NatS)

- 101 Physical World. 4 Hours.** A multi-disciplinary 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: High School Algebra and Trigonometry.
- 102 Chemical World. 4 Hours.** Credit is not given for NATS 102 if the student has credit in Chem 100. A multi-disciplinary course that relates biological and physical systems to chemistry. The sociology of science; chemical composition and change; the chemistry of life; chemistry and society. Prerequisite: High School Algebra and Trigonometry.
- 103 Biological World. 4 Hours.** Credit is not given for NATS 103 if the student has credit in Bios 100. A multi-disciplinary 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; evolution. Prerequisite: High School Algebra and Trigonometry.
- 104 Project-Based Seminar in Natural Science. 1 Hour.** Students select and design a multi-disciplinary investigation that results in the presentation and exhibition of the project. Prerequisite: Students must pass at least two of the following: NatS 101, 102, and 103 (or equivalent) and must be concurrently registered in NatS 101, 102, or 103.

## Philosophy (Phil)

- 100 Introduction to Philosophy. 3 Hours.** A survey of traditional problems concerning the existence and nature of God, freedom, justification, morality, etc. Readings from historical or contemporary philosophers.
- 101 Reasoning. 3 Hours.** A practical course designed to improve a student's reasoning skills. Emphasis is on developing skill at formulating, presenting, and evaluating arguments.
- 102 Introductory Logic. 3 Hours.** Sentential logic: representation of English using truth-functional connectives, truth table methods, natural deduction techniques. Introduction to predicate logic: representation of English using quantifiers. Decision methods for monadic predicate logic.
- 103 Introduction to Ethics. 3 Hours.** Surveys attempts to answer central questions of ethics: What acts are right? What things are good? How do we know this?
- 104 Introduction to Social/Political Philosophy. 3 Hours.** An introductory-level survey of one or more topics in social and/or political philosophy. Readings may include both classical and contemporary sources.
- 105 Science and Philosophy. 3 Hours.** 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.
- 107 Understanding Art. 3 Hours.** 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.
- 110 Philosophy of Love and Sex. 3 Hours.** A philosophical inquiry into traditional and contemporary views about love and sex.
- 112 Morality and the Law. 3 Hours.** What must the law do if it is to protect our rights (such as free speech, privacy, equal treatment)? Why believe we have rights?
- 115 Death. 3 Hours.** A philosophical examination of our attitudes towards death. Topics such as the following will be included: 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.
- 116 Medical Ethics. 3 Hours.** Moral issues as they arise in medical contexts, including such topics as abortion, euthanasia, paternalism, allocation of medical resources, and psychiatric issues.
- 120 Introduction to Ancient Philosophy. 3 Hours.** Same as Classics 120. Introduction to issues and methods of philosophy through engagement with classic Greek and Roman texts (read in translation).
- 122 Philosophy of Consciousness. 3 Hours.** A philosophical investigation into the nature and importance of consciousness as discussed in a variety of sources in philosophy, literature, and psychology.
- 201 Theory of Knowledge. 3 Hours.** Basic issues concerning knowledge of the external world, other minds, scientific laws, and necessary truths. Prerequisite: One course in philosophy.
- 202 Philosophy of Psychology. 3 Hours.** Theories and methods of scientific psychology: modes of explanation, the structure of theories, the nature of mental states, implications of commonsense conceptions of the mind. Prerequisite: One course in philosophy; or junior or senior standing in the physical, biological, or social sciences; or consent of the instructor.
- 203 Metaphysics. 3 Hours.** Philosophical issues concerning free will, causation, action, mind and body, identity over time, God, universals and particulars. Emphasis varies from term to term. Prerequisite: One course in philosophy or consent of the instructor.
- 204 Introduction to the Philosophy of Science. 3 Hours.** The nature of scientific observation, explanation, and theories; confirmation of laws and theories; the relation between the physical and social sciences. Prerequisite: One course in philosophy; or junior or senior standing in the physical, biological, or social sciences; or consent of the instructor.
- 210 Symbolic Logic. 3 Hours.** 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: Phil 102; a grade of B or better in Phil 102 is recommended.
- 211 Inductive Logic and Decision Making. 3 Hours.** How to gamble and make other decisions rationally. The role of probability, decision rules, and statistics in real-life contexts. Prerequisite: Phil 102 or 210.

- 220 Ancient Philosophy I: Plato and His Predecessors. 3 Hours.** Same as Classics 220. Introduction to Plato and his predecessors in the ancient period. It is recommended that Philosophy 220 and 221 be taken as a sequence in successive terms. Prerequisite: One course in philosophy or consent of the instructor.
- 221 Ancient Philosophy II: Aristotle and His Successors. 3 Hours.** Same as Classics 221. Introduction to Aristotle and his successors in the ancient period. It is recommended that Philosophy 220 and 221 be taken as a sequence in successive terms. Prerequisite: One course in philosophy or consent of the instructor.
- 223 History of Modern Philosophy I: Descartes and His Successors. 3 Hours.** Introduction to Descartes and some of his successors in the early modern period. It is recommended that Philosophy 223 and 224 be taken as a sequence in successive terms. Prerequisite: One course in philosophy or consent of the instructor.
- 224 History of Modern Philosophy II: Kant and His Predecessors. 3 Hours.** Introduction to Kant and some of his predecessors in the early modern period. It is recommended that Philosophy 223 and 224 be taken as a sequence in successive terms. Prerequisite: One course in philosophy or consent of the instructor.
- 226 Twentieth-Century Analytic Philosophy. 3 Hours.** 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: Phil 102 or 210 or consent of the instructor.
- 227 Continental Philosophy I: Phenomenology and Existentialism. 3 Hours.** Existential themes in drama and fiction as well as selections from the works of such thinkers as Kierkegaard, Nietzsche, Husserl, Heidegger, Merleau-Ponty, Camus and Sartre. Prerequisite: Junior standing or consent of the instructor.
- 230 Topics in Ethics and Political Philosophy. 3 Hours.** Survey of major topics in ethical theory and political philosophy. Emphasis varies. Prerequisite: One course in philosophy or consent of the instructor. Phil 103 or 109 or 112 or 116 is recommended.
- 232 Sex Roles: Moral and Political Issues. 3 Hours.** Same as Gender and Women's Studies 232. Philosophical inquiry into controversies surrounding the changing roles of men and women.
- 234 Philosophy and Film. 3 Hours.** A philosophical examination of film, dealing with aesthetic issues, or moral and political issues, or both. Screening accompanies discussion. Prerequisite: One course in philosophy or consent of the instructor.
- 241 Philosophy of Religion. 3 Hours.** Philosophical inquiry into the grounds of faith and belief, the nature of religious and mystical experience, and the existence and nature of God. Prerequisite: One course in philosophy or consent of the instructor.
- 299 Seminar. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Selected topics. Prerequisite: One course in philosophy or consent of the instructor.

- 399 Independent Study. 2 to 6 Hours.** May be repeated for credit. Students may register for more than one section per term. 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. Prerequisite: Consent of the instructor.
- 400 Philosophical Writing. 1 Hour.** Fulfills writing in the discipline requirement. Philosophical issues covered will vary from semester to semester. Must be taken in conjunction with designated 400-level courses. See the undergraduate advisor for details. Prerequisites: Major in philosophy and concurrent registration in a 400-level philosophy course as designated in the Timetable.
- 401 Theory of Knowledge. 3 Hours.** Survey and analysis of key topics in epistemology, such as skepticism, the nature of propositional knowledge, justification, perception, memory, induction, other minds, naturalistic epistemology. Prerequisite: Phil 201 or consent of the instructor.
- 403 Metaphysics. 3 Hours.** Intensive treatment of one or more topics, such as free will, personal identity, causation, existence, substance and attribute, the nature of the mind. Prerequisite: Phil 203 or 226 or 426 or consent of the instructor.
- 404 Philosophy of Science. 3 Hours.** Selected works on the aims and methods of science; the status of scientific theories, natural laws, and theoretical entities; the nature of scientific explanation. Prerequisites: Phil 102 or Phil 210 and one 200-level course in philosophy; or consent of the instructor.
- 406 Philosophy of Language. 3 Hours.** 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. Prerequisite: Phil 102 or one 200- or 400-level logic course or Phil 226 or consent of the instructor.
- 410 Introduction to Formal Logic. 3 Hours.** 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. Prerequisite: Phil 210 or consent of the instructor.
- 416 Metalogic I. 3 Hours.** Students who have taken Mathematics 430 may not register for this course. Should be taken in sequence with Philosophy 417. Metatheory for sentence and predicate logic. Completeness and compactness theorems and their applications. Prerequisite: Phil 210 or consent of the instructor.
- 417 Metalogic II. 3 Hours.** Effective computability and recursive functions. Peano arithmetic. Arithmetization of syntax. Incompleteness and undecidability: Gödel's and Church's theorems. Prerequisite: Phil 416 or consent of the instructor.
- 420 Plato. 3 Hours.** May be repeated once for credit with the consent of the department. Careful reading of selected works. Prerequisite: Phil 220 or 221 or 3 courses in philosophy or consent of the instructor.
- 421 Aristotle. 3 Hours.** May be repeated once for credit with the consent of the department. Careful reading of selected works. Prerequisites: Phil 220 or 221 or 3 courses in philosophy or consent of the instructor.

- 422 Medieval Philosophy. 3 Hours.** Study of selected philosophers such as Augustine, Boethius, Averroes, Maimonides, Aquinas, William of Ockham, Buridan, Suarez. Prerequisite: Phil 220 or 221 or 420 or 421 or consent of the instructor.
- 423 Studies in Early Modern Philosophy. 3 Hours.** May be repeated once for credit with the consent of the department. 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. Prerequisite: Phil 223 or 224 or 3 courses in philosophy or consent of the instructor.
- 424 Kant. 3 Hours.** Intensive study of Kant's metaphysics and theory of knowledge with main reading drawn from the *Critique of Pure Reason*. Prerequisite: Phil 223 or 224 or 3 courses in philosophy or consent of the instructor.
- 425 Studies in Nineteenth-Century Philosophy. 3 Hours.** Careful reading of one or more post-Kantian philosophers such as Hegel, Schelling, Fichte, Schopenhauer, Marx, J.S. Mill, Kierkegaard, Nietzsche. Prerequisite: One 200-level course in philosophy or consent of the instructor.
- 426 Analysis and Logical Empiricism. 3 Hours.** 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. Prerequisite: Phil 210 or 226 or consent of the instructor.
- 427 Continental Philosophy II: European Thought Since 1960. 3 Hours.** European thought since 1960: existential marxism; critical theory; structuralism, post-structuralism and deconstruction. Prerequisite: Phil 227 or consent of the instructor.
- 429 Special Studies in the History of Philosophy. 3 Hours.** May be repeated once for credit with the consent of the department. Advanced study of a historical school, period, or the development of a historical theme. Prerequisite: One 200-level course in the history of philosophy or consent of the instructor.
- 430 Ethics. 3 Hours.** May be repeated once for credit with the approval of the department. Selected topics in moral philosophy, such as normative ethics, value theory, or meta-ethics. Prerequisite: One 200-level course in philosophy or consent of the instructor. Credit in a course in moral, social or political philosophy is recommended.
- 431 Social/Political Philosophy. 3 Hours.** May be repeated once for credit with approval of the department. Selected topics in social and political philosophy. Prerequisite: One 200-level course in philosophy or consent of the instructor. Credit in a course in moral, social or political philosophy is recommended.
- 432 Topics in Ethics. 3 Hours.** May be repeated once for credit with the approval of the department. Selected topics in ethics. Prerequisite: One 200-level course in philosophy or consent of the instructor. Credit in a course in moral, social, or political philosophy is recommended.

- 433 Topics in Social/Political Philosophy. 3 Hours.** May be repeated once for credit with the approval of the department. Selected topics in social and political philosophy. Prerequisite: One 200-level course in philosophy or consent of the instructor. Credit in a course in moral, social, or political philosophy is recommended.
- 441 Topics in Philosophy of Religion. 3 Hours.** May be repeated once for credit with the approval of the department. Intensive study of one or more selected topics concerning the philosophical aspects of basic religious beliefs and concepts. Prerequisite: One 200-level course in philosophy (Phil 241 is recommended) or consent of the instructor.

## Physics (Phys)

- 099 Preparation for Elementary Physics Sequences. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Provides smooth transition into Physics 101 and 141. Overview of physics. Emphasis on word problems and applications of mathematics. Discussion of particle kinematics. Prerequisite: Eligibility determined by performance on the department placement test or recommendation of the department.
- 102 Introductory Physics II. 5 Hours.** A noncalculus course. Faraday's law; Maxwell's relations; electromagnetic waves; reflection; refraction; interference; special relativity; nuclear physics; the Heisenberg uncertainty principle; Bohr model; introduction to quantum mechanics. Lecture and laboratory. Prerequisites: Phys 105 and 106.
- 104 Problem-Solving Workshop for Introductory Physics I. 1 Hour.** Satisfactory/Unsatisfactory grade only. 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 Physics 105/106. Prerequisite: Concurrent registration in Phys 105 and 106.
- 105 Introductory Physics I - Lecture. 4 Hours.** Not open to students with credit in Physics 101. Natural Sciences CDC granted only upon successful completion of both Physics 105 and 106. Students may obtain one additional hour of credit by concurrently registering in Physics 104. A noncalculus course. Kinematics; Newton's laws; simple linear momentum; work and energy; torque and angular momentum; rotational dynamics; gravitation; simple harmonic motion; waves; physical geometric optics; relativity. Prerequisites: Concurrent registration in Phys 106 and high school algebra and trigonometry.
- 106 Introductory Physics I - Laboratory. 1 Hour.** Not open to students with credit in Physics 101. Natural Sciences CDC granted only upon successful completion of both Physics 105 and 106. Students may obtain one additional hour of credit by concurrently registering in Physics 104. A 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. Prerequisites: Concurrent registration in Phys 105 and high school algebra and trigonometry.



- 107 Introductory Physics II - Lecture. 4 Hours.** Not open to students with credit in Physics 102. Natural Sciences CDC granted only upon successful completion of both Physics 107 and 108. A 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. Prerequisites: Phys 101 or both Phys 105 and 106, and concurrent registration in Phys 108.
- 108 Introductory Physics II - Laboratory. 1 Hour.** Not open to students with credit in Physics 102. Natural Sciences CDC granted only upon successful completion of both Physics 107 and 108. A 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. Prerequisites: Phys 101 or both Phys 105 and 106, and concurrent registration in Phys 107.
- 112 Astronomy and the Universe. 4 Hours.** Astronomical observations from ancient times to the present day and the scientific knowledge that has been obtained. Sky watching and planetarium visits. Prerequisite: High school algebra.
- 113 Physics of Sports. 4 Hours.** Investigation of physical principles underlying various phenomena in sports. Examples are taken from baseball, basketball, track and field, swimming, and other areas. Prerequisite: High school algebra.
- 115 Physics of Sound and Music. 4 Hours.** Study of production, transmission, reception and perception of musical sound both vocal and instrumental, both live and electronically reproduced. Prerequisite: High school algebra.
- 121 Natural Sciences-The Physical Universe. 4 Hours.** Students may obtain one additional hour of credit by concurrently registering in Physics 122. Atomic theory to cosmology; physical laws and the nature of matter in the evolving universe. Prerequisite: High school algebra.
- 122 Problem-Solving Workshop for Natural Sciences-The Physical Universe. 1 Hour.** A workshop where small groups of students work together to solve problems similar to, but more challenging than, the ones given in Physics 121. Prerequisite: Concurrent registration in Phys 121.
- 123 Physics of the Environment. 5 Hours.** 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: High school algebra.
- 126 Physics in Medicine. 4 Hours.** Same as Bioengineering 126. Introductory physics course where all the examples are taken from applications in medicine: blood flow, heartbeat, diagnostic and therapy radiations, from ultrasound to MRI. Prerequisite: High school algebra.
- 141 General Physics I (Mechanics). 4 Hours.** Students may obtain one additional hour of credit by concurrently registering in Physics 144. Kinematics; Newton's laws of motion; linear momentum and impulse; work and kinetic energy; potential energy; rotational dynamics; simple harmonic motion; gravitation. Prerequisite: Grade of C or better in Math 180.
- 142 General Physics II (Electricity and Magnetism). 4 Hours.** Electrostatics; electric currents; d-c circuits; magnetic fields; magnetic media; electromagnetic induction; a-c circuits; Maxwell's equations; electromagnetic waves; reflection and refraction; interference. Prerequisites: Grade of C or better in Phys 141 and credit in Math 181; or an average grade of B or better in Phys 105/106 and credit in Math 181.
- 144 Problem-Solving Workshop for General Physics I (Mechanics). 1 Hour.** Satisfactory/Unsatisfactory grade only. 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 Physics 141. Prerequisite: Concurrent registration in Phys 141.
- 210 Astrophysics. 3 Hours.** 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: Phys 102 or 142 or consent of the instructor.
- 215 Mathematical Methods for Physicists. 4 Hours.** Students may obtain one additional hour of credit by concurrently registering in Physics 216. Applications of mathematical methods to physics problems. Vector calculus, linear algebra, ordinary differential equations of first and second Fourier series. Prerequisite: Grade of C or better in Math 210.
- 216 Problem-Solving Workshop for Mathematical Methods for Physicists. 1 Hour.** Satisfactory/Unsatisfactory grade only. Extensive computer use required. Taught in a computer lab. A workshop where groups of students work together to solve mathematical physics problems using Maple. Prerequisites: Grade of C or better in Math 210 and concurrent registration in Phys 215.
- 244 General Physics III (Modern Physics). 3 Hours.** 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: Grade of C or better in Phys 142 or an average grade of B or better in Phys 107/108 and credit in Math 181.
- 245 General Physics IV (Heat, Fluids, and Wave Phenomena). 4 Hours.** Thermodynamic laws and processes; kinetic theory of gases; hydrostatics and fluid flow; general wave phenomena; acoustics; geometrical optics; physical optics. Prerequisite: Phys 142.
- 391 Physics Seminar. 1 Hour.** May be repeated for a maximum of 4 hours of credit. Satisfactory/unsatisfactory grade only. Preparation and presentation by students of talks on topics of current interest in physics. Prerequisite: Senior standing.
- 392 Physics Research. 2 to 4 Hours.** Research under the close supervision of a faculty member. Prerequisite: Approval of the department.
- 393 Special Problems. 2 to 4 Hours.** Special problems or reading in modern physics under individual arrangement with a faculty member. Prerequisites: Approval of the department.
- 401 Electromagnetism I. 4 Hours.** Vector calculus; electrostatic fields in vacuum; solution of electrostatic boundary-value problems; electrostatic fields in material media; electrostatic energy; electric currents. Prerequisites: Phys 142 and 215.
- 402 Electromagnetism II. 4 Hours.** Magnetic fields of steady currents and magnetic materials; electromagnetic induction; magnetic energy; slowly varying currents; a-c circuits; Maxwell's equations; electromagnetic waves; bounded regions; special relativity. Prerequisite: Phys 401.
- 411 Quantum Mechanics I. 4 Hours.** Wave particle duality; wave functions; Schrodinger equation; mathematical structure of quantum mechanics; operators and observables; matrix representation of operators; three-dimensional Schrodinger equation. Prerequisite: Phys 244.
- 412 Quantum Mechanics II. 4 Hours.** Orbital angular momentum. Spin and vector addition of angular momenta; degenerate and nondegenerate perturbation theory; identical particles; time-dependent perturbation theory; scattering theory. Prerequisite: Phys 411.
- 421 Modern Physics: Atoms and Molecules. 4 Hours.** Hydrogenic atoms, electron spin, external fields, multi-electron atoms, diatomic molecules, line widths, photons, radiation from atoms and other electromagnetic processes, positrons, positronium, elastic electron scattering. Prerequisite: Credit or concurrent registration in Phys 411.
- 425 Modern Optics. 5 Hours.** 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: Phys 244.
- 429 Plasma. 3 Hours.** Same as Electrical and Computer Engineering 429. Single particle motion, plasma as fluids, waves in plasma, diffusion, resistivity, equilibrium, stability, introduction to kinetic theory. Prerequisite: ECE 322.
- 431 Modern Physics: Condensed Matter. 4 Hours.** 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. Prerequisites: Phys 411 and 461; or consent of the instructor.
- 441 Theoretical Mechanics. 4 Hours.** Variable motion, non-inertial frames, oscillations, rigid body motion, transformations, matrix representations, vector calculus, three-dimensional motion, angular momentum, torque, orbits, Lagrange's equations. Prerequisites: Phys 142 and 215.



**450 Molecular Biophysics of the Cell. 4 Hours.** Introduction to molecular length, time, force, energy scales; statistical thermodynamics of solutions; DNA, RNA and protein structure and function; experimental methods; cell membranes; protein motors; energy and information flow; prokaryote cell; eukaryote cell. Prerequisite: Phys 245.

**451 Modern Physics: Nuclei and Elementary Particles. 4 Hours.** 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: Phys 411.

**461 Thermal and Statistical Physics. 4 Hours.** 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: Phys 245.

**470 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.

**471 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.

**481 Modern Experimental Physics I. 4 Hours.** Theory and experimental use of linear circuits, semiconductor devices, amplifiers, oscillators. Techniques and experiments in atomic, molecular and solid-state physics. Prerequisite: Phys 244.

**482 Modern Experimental Physics II. 4 Hours.** Techniques and experiments in nuclear and particle physics. Gamma-gamma correlations, muon lifetime, Compton scattering, alpha particle scattering. Computer-based experimentation. Prerequisite: Phys 481.

**494 Special Topics in Physics Teaching. 2 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Seminar on various topics related to the teaching of physics. Supervised practice. Subjects are announced. Prerequisite: Graduate standing or approval of the department.

**499 Survey of Physics Problems. 1 Hour.** May be repeated once for credit. Grade of C or better required to graduate with an undergraduate degree in physics. Problem-solving techniques applied to the variety of undergraduate physics topics. Prerequisites: Credit or concurrent registration in Phys 401, 411, 441, 461, and 481.

## Polish (Pol)

**101 Elementary Polish I. 4 Hours.** Four additional half hours each week in the language laboratory. For students who have had no formal work in Polish. Phonetics, introductory grammar, and reading.

**102 Elementary Polish II. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Polish 101. Prerequisite: Pol 101 or the equivalent.

**103 Intermediate Polish I. 4 Hours.** Continues Pol 102. Prerequisite: Pol 102 or the equivalent.

**104 Intermediate Polish II. 4 Hours.** Continues Polish 103. Prerequisite: Pol 103 or the equivalent.

**115 Introduction to Polish Culture. 3 Hours.** Main trends in Polish culture in the context of parallel developments in Western European civilization. Taught in English.

**120 The Polish Short Story in Translation. 3 Hours.** Introduction to representative Polish short stories of the nineteenth and twentieth centuries; the elements of fiction; close reading of prose texts. Taught in English.

**130 Masterworks of Polish Literature in Translation. 3 Hours.** The most important works of Poland's greatest writers in the areas of poetry, drama, and prose.

**140 Polish Drama in Translation. 3 Hours.** Same as Theatre 140. Elementary aspects of Polish dramatic theory and close reading of representative scripts selected from various periods. Taught in English.

**150 Introduction to Polish Cinema. 3 Hours.** 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.

**234 History of Poland. 3 Hours.** Same as History 234. Political, socioeconomic, and cultural developments since the first Polish state, the union with Lithuania, the struggle for independence, Communist rule to the present.

**241 Mickiewicz and Sienkiewicz: Polish Romanticism and Realism. 3 Hours.** The study of two major Polish authors as foremost representatives of Polish Romanticism (Mickiewicz) and Realism (Sienkiewicz). Taught in English. Prerequisite: Sophomore standing or consent of the instructor.

**301 Polish Composition and Conversation I. 3 Hours.** Composition and conversation, systematic grammar, vocabulary development and aural comprehension. Prerequisite: Pol 104 or the equivalent.

**302 Polish Composition and Conversation II. 3 Hours.** Continues Polish 301. Prerequisite: Pol 301.

**321 Introduction to Polish Literature I. 3 Hours.** Old Polish literature from medieval Latin and vernacular texts to masterpieces of the Polish Enlightenment. Taught in English. Prerequisite: Junior standing or consent of the instructor.

**322 Introduction to Polish Literature II. 3 Hours.** Modern Polish literature in Poland and abroad. Taught in English. Prerequisite: Junior standing or consent of the instructor.

**399 Independent Study. 1 to 3 Hours.**

May be repeated for a maximum of 6 hours of credit. Investigation of special problems under the general direction of a staff member. Prerequisites: Junior standing, consent of the instructor and the head of the department.

**401 Polish Composition and Conversation III. 3 Hours.** Development of oral and writing skills: expanding vocabulary and perfecting style. Prerequisite: Pol 302.

**402 Polish Composition and Conversation IV. 3 Hours.** Continues Polish 401. Prerequisite: Pol 401 or the equivalent.

**410 Structure of Modern Polish. 3 Hours.** A synchronic linguistic analysis of Polish substantives, pronouns, verbs, deverbal nouns, and minor parts of speech from a syntagmatic and paradigmatic point of view. Prerequisite: Pol 402 or the equivalent.

**450 Studies in Polish Drama. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Main trends in Polish drama, leading playwrights, their aesthetics and philosophy in the context of European drama and from the Renaissance to the present. Prerequisite: Advanced undergraduate standing.

**460 Studies in Polish Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Literary trends in Polish poetry and prose; their poetics, aesthetics, and philosophy in their European context. Prerequisite: Advanced undergraduate standing.

**499 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Graduate students may register for more than one section per term; undergraduates may only register for one section per term. Investigation of special problems under the general direction of a staff member. Prerequisites: Senior or graduate standing, consent of the instructor and the head of the department.

## Political Science (PoLS)

**101 Introduction to American Government and Politics. 3 Hours.** Introduction to American political ideas, individual and group political behavior, institutions of national government, and public policy.

**103 Who Rules? Introduction to the Study of Politics. 3 Hours.** 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.

**105 Honors Seminar in Political Science. 3 Hours.** Selected problems in political analysis. Course content and format varies according to programmatic needs and instructor expertise. Prerequisite: Membership in the Honors College or consent of the instructor.

**111 United States Politics: Current Problems and Controversies. 3 Hours.** 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.

**112 African-American Politics and Culture. 3 Hours.** Same as African-American Studies 103. A survey of African-American political and cultural activism from the Black Convention Movement of the 1830's to contemporary times.

- 120 Introduction to Political Theory. 3 Hours.** 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.
- 130 Introduction to Comparative Politics. 3 Hours.** Same as Latin American and Latino Studies 130. Comparative study of political institutions, political culture, and political processes in selected major countries of the world.
- 184 Introduction to International Relations. 3 Hours.** Political, military, and economic relations between states, international organizations and transnational actors. Problems of war, imperialism, and the world economy. Prospects for global cooperation.
- 190 Scope of Political Science. 3 Hours.** Politics as law and institutions, markets and power, and identity and culture. Emphasizes student participation and writing of essays. Prerequisite: Freshman, sophomore, or junior standing. Seniors require consent of the instructor.
- 200 Methods of Political Science. 3 Hours.** Different methods for doing research on law and institutions, markets and power, and identity and culture. Problems in explanation and interpretation. Prerequisite: PolS 190.
- 201 Political Data Analysis. 3 Hours.** 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: Math 090 or 092 or 118.
- 202 Topics in Political Practice. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Students may register for more than one section per term. Selected topics in contemporary political practice. Prerequisite: PolS 101 or 190.
- 206 Political Behavior. 3 Hours.** 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: PolS 101.
- 207 The Mass Media and Politics. 3 Hours.** Same as Communication 207. 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. Prerequisite: One course in political science, sociology, or contemporary history.
- 209 Latino Politics in the United States. 3 Hours.** Same as Latin American and Latino Studies 283. Latino politics and politicians in the context of the American political system. The political system, Latino participation, experience, and research on political processes.
- 210 Introduction to Urban Politics. 3 Hours.** Growth and legal problems of cities: intergovernmental relations; powers and forms of government; pressure group activity; municipal functions and services; and revenue problems. Prerequisite: PolS 101 or 103 or 190.
- 211 Chicago's Future. 3 Hours.** Emphasis on the political and governmental future of Chicago. Covers racial and ethnic politics, metropolitan, city, and neighborhood government, machine versus reform politics. Prerequisite: PolS 101 or 103 or 190.
- 212 State Government. 3 Hours.** Organization and powers of state governments in the U.S.; constitutions and problems of revision; the major institutions and their interrelationships, intergovernmental relations. Prerequisite: PolS 101 or 103 or 190.
- 219 Literature and Politics. 3 Hours.** Same as English 251. May not be repeated for credit. The portrayal of political ideas and problems in literature. Content varies. Prerequisites: 6 hours of English from among Engl 101-113, including Engl 101 or consent of the instructor.
- 225 Political Interest Groups. 3 Hours.** Pluralism, the logic of collective action, the special-interest state, public-interest groups, and corporatism. Prerequisite: PolS 101 or consent of the instructor.
- 226 Political Parties. 3 Hours.** Historical development, organization, and functioning of state and national parties; committees, conventions, campaigns and finances; party platforms and issues. Prerequisite: PolS 101 or 103 or 190.
- 228 U.S. Congress. 3 Hours.** Introduction to the structures and processes of Congressional politics. Emphasis on elections, organization, interinstitutional relations, and authorizations and appropriations processes. Prerequisite: PolS 101.
- 229 The American Presidency. 3 Hours.** Examination of such phenomena as presidential elections; the presidency and the Constitution; the presidency and public administration; the president as policymaker; presidential leadership. Prerequisite: PolS 101.
- 231 Politics in China. 3 Hours.** Same as Asian Studies 231. The dynamics of the Chinese Communist revolution; post-Mao reforms; the structure and operation of key political institutions; relations with major powers. Prerequisite: PolS 130 or PolS 190 or consent of the instructor.
- 232 Politics in Japan and Korea. 3 Hours.** Same as Asian Studies 232. Sources, dynamics, and patterns of politics in Japan and the two Koreas. Appraisal of the Japanese model. Comparison of Japan and Korea. Prerequisite: PolS 130 or PolS 190 or consent of the instructor.
- 234 Western European Politics and Government. 3 Hours.** 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: PolS 130 or 190; or consent of the instructor.
- 235 Politics and Government of Russia. 3 Hours.** The nature, evolution, and problems of political process and institutions in the former USSR and successor states. Prerequisite: PolS 130 or 190.
- 236 Politics and Government of Eastern Europe. 3 Hours.** Similarities and differences of the political system of Eastern European states and the sources and meaning of political change. Prerequisite: PolS 130 or 190.
- 242 Government and Politics of Latin America. 3 Hours.** Same as Latin American and Latino Studies 242. An examination of government and politics in selected Latin American countries. Comparative and historical analysis of dictatorship, democracies, political institutions, and parties. Prerequisite: Any 100-level course in Latin American and Latino studies or political science.
- 243 Politics and Government of the Middle East. 3 Hours.** Same as Jewish Studies 243. 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. Prerequisite: PolS 130 or PolS 190 or consent of the instructor.
- 245 Politics and Government of Africa. 3 Hours.** Same as African-American Studies 245. Contemporary political systems of selected African countries with emphasis on political leadership, nationalism, ideological trends, and economic development. Prerequisite: PolS 130 or PolS 190 or AAST 100 or consent of the instructor.
- 249 Political Economies of Advanced Industrial Countries. 3 Hours.** 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: PolS 130 or consent of the instructor.
- 253 Constitutional Law. 3 Hours.** 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: PolS 101 or 103 or 190.
- 254 The Constitution and Civil Liberties. 3 Hours.** Civil rights, including religion, speech, assembly, press, and rights of the accused. Prerequisite: PolS 101 or 103 or 190 or consent of the instructor.
- 255 Courts, Color, and the Constitution. 3 Hours.** Same as African-American Studies 255. The use of the courts by Blacks and other American minorities to attain equality under federal constitutional standards. Prerequisite: PolS 101 or 103 or 190 or consent of the instructor.
- 257 Constitutional Law: Women, Gender and Privacy. 3 Hours.** Same as Gender and Women's Studies 257 and African-American Studies 257. Previously listed as POLS 256. 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. Prerequisite: 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.
- 258 The Judicial Process. 3 Hours.** Dispute settlement and policy making in state and federal court systems; judicial decision making and the impact of decisions on the polity. Prerequisite: PolS 101 or 103 or 190.

- 261 Public Administration. 3 Hours.** Management in government. Principles and methods of personnel management, program planning, budgeting, policy implementation, and policy evaluation. Prerequisite: PoLS 101 or 160 or 212 or consent of the instructor.
- 266 Environmental and Health Politics. 3 Hours.** Policies of pollution control in the United States as they relate to public health and attempts to implement them at federal, state, and local levels. Prerequisite: PoLS 101 or 190.
- 275 Latin American Women. 3 Hours.** Same as Latin American and Latino Studies 275 and Gender and Women's Studies 275. Latin American women in historical perspective from pre-Columbian and Iberian societies to the present.
- 281 United States Foreign Policy. 3 Hours.** 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: PoLS 101 or 190.
- 282 National Model United Nations. 3 Hours.** May be repeated for a maximum of 6 hours of credit with the approval of the department. Students prepare to assume the role of diplomatic representatives at the National Model United Nations Conference. Prerequisite: Consent of the instructor.
- 283 International Political Economy. 3 Hours.** Political underpinnings and ramifications of international economic relations. Foreign trade policy, multinational corporations, oil, North-South relations, economic warfare. Prerequisite: PoLS 184 or consent of the instructor.
- 284 International Security. 3 Hours.** International conflict and cooperation, including war, nationalism, global inequality, and the environment. Prerequisite: PoLS 184 or consent of the instructor.
- 286 The United Nations and Other International Organizations. 3 Hours.** The development, structure, functioning, and impact of the United Nations and other international organizations. An assessment of their contributions and limitations. Prerequisite: PoLS 184 or consent of the instructor.
- 287 International Law. 3 Hours.** 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: PoLS 184 or consent of the instructor.
- 290 History of Political Thought I. 3 Hours.** Western political theorists from ancient Greece through the sixteenth century, including Plato, Aristotle, Aquinas, and Machiavelli. Prerequisite: PoLS 120 or 190.
- 291 History of Political Thought II. 3 Hours.** Western political theorists from the seventeenth century through modern times, including Hobbes, Locke, Marx, Mill, and Nietzsche. Prerequisite: PoLS 120 or 190.
- 293 Possible Political Systems: Ideal and Actual. 3 Hours.** Political possibilities beyond those that presently prevail. Arguments for gender equality, participatory democracy, and alternative technologies are examined and evaluated. Prerequisite: PoLS 190 or consent of the instructor.
- 295 Introduction to Marxism. 3 Hours.** Examination and evaluation of the basic theories of Marx and Engels to determine their contribution to the understanding of contemporary politics. Prerequisite: PoLS 190 or consent of the instructor.
- 297 American Political Theories. 3 Hours.** American political theorists from the colonial period to the present, including Paine, Madison, Hamilton, Thoreau, Calhoun, Sumner, DuBois, and Dewey. Prerequisite: PoLS 190 or consent of the instructor.
- 300 Symposium on Politics. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Selected problems in politics. Course content and format will vary to adapt to the changing political scene. Prerequisite: Junior or senior standing or consent of the instructor.
- 301 Field Experience in Political Science. 6 Hours.** Provides students an opportunity to apply theoretical knowledge in real-life political settings, such as governmental agencies, political parties or interest groups. Prerequisites: Junior or senior standing; at least 12 credit hours in political science, including courses relevant to field experience; a grade point average of 4.00 in political science; and consent of the instructor.
- 302 Great Cities Internship. 6 Hours.** Same as Urban Planning and Policy 302. Provides students an opportunity to apply theoretical knowledge and conduct research in metropolitan organizations through field placements and seminars. Prerequisites: Junior or senior standing and grade point average of 4.00, or consent of the instructor.
- 303 Supervised Readings and Research. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Supervised readings and research in political science. Prerequisite: Consent of the instructor.
- 305 Honors Course. 3 to 6 Hours.** May be repeated for a maximum of 6 hours of credit. Independent reading and research for students seeking departmental distinction. Prerequisites: A 4.25 university grade point average, a 4.50 political science grade point average, and approval of the department. Open only to seniors.
- 307 Political Psychology. 3 Hours.** Analysis of mass and elite political behavior from the perspectives of several psychological approaches including psychoanalytic, behavioral, humanistic, and social psychology theories.
- 309 Topics in Political Behavior. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Intensive analysis of topics in political behavior. Possible topics include: elections and campaigns, political culture. Prerequisite: PoLS 206 or consent of the instructor.
- 310 Governing the Megalopolis. 3 Hours.** Examination of political/governmental issues in massive metropolitan areas, utilizing the six-county greater Chicago area for example. Prerequisite: PoLS 101 or 200 or the equivalent or consent of the instructor.
- 311 Black Politics in the United States. 3 Hours.** Same as African-American Studies 306. Historical analysis of Black electoral politics in the U.S., including traditional political party participation and movement politics. Prerequisites: Three courses in political science, history or sociology, or consent of the instructor.
- 312 Topics in Local Politics. 3 Hours.** Intensive examination of selected problems of local politics. Actual research involvement. Topics vary. Prerequisite: PoLS 101 and 210.
- 313 Urban Political Economy. 3 Hours.** The interaction of the national political economy and urban political structures and their impact on social problems, racial and class conflict, and fiscal crisis. Prerequisites: PoLS 101 and 200.
- 314 Neighborhood and Community Political Organizations. 3 Hours.** 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). Prerequisites: PoLS 101 and 200.
- 329 Seminar on American Politics. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Advanced seminar on special topics in American politics. Content varies. Prerequisite: PoLS 101 and 200.
- 348 Seminar: Political Problems of Developing Societies. 3 Hours.** Same as Latin American and Latino Studies 348. Selected aspects of the politics and countries of Asia, Africa, and Latin America. Prerequisites: PoLS 200 and 130; or consent of the instructor.
- 349 Topics in Comparative Politics. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Selected problems in comparative politics. Prerequisites: PoLS 130 and 200.
- 359 Topics in Public Law. 3 Hours.** May be repeated for a maximum of 6 hours credit if topic is different for each registration. Selected problems arising in public law and judicial arenas. Prerequisite: PoLS 190 or 200 or 258.
- 364 Science, Technology, and Public Policy. 3 Hours.** The impact of science and technology policy in the United States. Responses of the national executive and Congress; intergovernmental aspects of technological advances. Prerequisite: PoLS 101 or 190 or consent of the instructor.
- 384 International Relations Theory. 3 Hours.** Philosophical foundations of international relations, including assumptions of anarchy, rationality, power and the state. Applications to security and political economy. Prerequisite: PoLS 283 or 284 or consent of the instructor.
- 389 Seminar: Topics in International Relations. 3 Hours.** May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Selected topics in international relations. Topics may vary and may cover global military, economic, cultural, ecological, or methodological issues. Prerequisites: PoLS 184 and PoLS 200.
- 396 The Dynamics of Domination. 3 Hours.** Examination and evaluation of critical theories of racism, sexism, ethnocentrism and other forms of domination. Prerequisite: PoLS 293 or 295 or consent of the instructor.



- 399 Seminar in Political Theory. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Selected topics and problems in political theory. Prerequisites: PolS 120 and 200.
- 401 Data Analysis I. 3 Hours.** Same as Public Policy Analysis 401. Statistical inference for the social sciences. Emphasis on univariate and bivariate statistics. Prerequisites: PolS 200 and PolS 201; or graduate standing.
- 405 The Problem of Justice. 3 Hours.** Same as Criminal Justice 405. Premodern and modern views of justice and their practical utility in analyzing legislative, executive, and judicial programs for enhancing or restricting justice. Prerequisites: CrJ 101 plus two 200-level courses in criminal justice or two 200-level courses in political science.
- 414 Formal Models of Politics. 3 Hours.** Introduction to formal political theory, emphasizing spatial voting and collective action models, analytic techniques including game theory, decision theory, utility maximization, and difference equations. Prerequisites: PolS 200 or graduate standing or consent of the instructor.
- 420 Administrative Theory and Behavior I. 3 Hours.** Theories of modern administrative behavior and organizational processes; major trends in research findings on organizational behavior and performance; comparison of governmental and nongovernmental organization. Prerequisite: PolS 460 or consent of the instructor.
- 429 Policy Making and Implementation. 3 Hours.** How political factors, institutional setting, procedures, and the prior experiences of government officials affect policy making and implementation. Prerequisite: PolS 460 or consent of the instructor.
- 435 Special Topics in Bureaucracy. 3 Hours.** May be repeated for a maximum of 12 hours credit. Consideration of timely or enduring issues in policy formation and bureaucracy not available in regularly offered courses. Prerequisite: PolS 460 or consent of the instructor.
- 440 Politics of Urban Education. 3 Hours.** Same as Policy Studies 406. Relations between school governance and urban politics. The role of educational interest groups, school boards, professional educators, and citizens in formulation and execution of educational policy. Prerequisite: Advanced undergraduate or graduate standing.
- 451 Law and Public Policy. 3 Hours.** The role of law and legal institutions in the development and implementation of public policies. Prerequisite: Graduate standing or consent of the instructor.
- 460 The Structure and Processes of American Public Policy. 3 Hours.** Integrated overview of American policy-making institutions and processes. Emphasis on organizational design-making and the impacts of various policy-making institutions. Prerequisite: Consent of the instructor.
- 465 Topics in the Sociology of Politics. 3 Hours.** Same as Sociology 465. May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Intensive examination of a specialized topic announced when the class is scheduled. Prerequisites: 6 hours of upper-division sociology or consent of the instructor.

- 467 Public Opinion and Political Communication. 3 Hours.** Same as Communication 467. 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. Prerequisite: PolS 200 or the equivalent or consent of the instructor.
- 472 Global Political Economy. 3 Hours.** Exploration of competing perspectives on nation states and economic systems. Prerequisite: Graduate standing or consent of the instructor.
- 482 Democratic Theory. 3 Hours.** Democracy as a procedure of government and value commitments associated with this form of government. Special attention paid to classical and modern democracies. Prerequisite: PolS 290 or 291 or consent of the instructor.
- 485 Gender and Politics. 3 Hours.** Same as Gender and Women's Studies 485. Impact of gender on basic categories of western political thought. Distinctions between reason and emotion, public and private, among others, examined from feminist perspective. Prerequisites: PolS 190 and one 200-level course in political theory; or consent of the instructor.

## Portuguese (Port)

- 240 Rapid Portuguese for Spanish Speakers. 4 Hours.** Characteristics of Portuguese grammar from the perspective of speakers of Spanish, leading to basic conversational skills in Portuguese. Prerequisite: Advanced student of Spanish and two 200-level Spanish courses; or consent of the instructor.

## Psychology (Psch)

- 100 Introduction to Psychology. 4 Hours.** 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. Consent forms available in 1009 BSB.
- 201 The Psychology of African-Americans. 3 Hours.** Same as African-American Studies 201. 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. Prerequisite: Psch 100 or consent of the instructor.
- 202 African-American Behavioral Patterns. 3 Hours.** Same as African-American Studies 202. 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. Prerequisite: Psch 100 or consent of the instructor. Credit in Psch 201 is recommended.
- 210 Theories of Personality. 3 Hours.** Survey of major theoretical approaches to the study of personality and the evidential basis underlying each approach. Prerequisite: Psch 100.
- 231 Community Psychology. 3 Hours.** Psychological principles, research and interventions concerning community settings; community human services, primary prevention, consultation, advocacy, social ecology, organizational change, and citizen participation. Prerequisite: Psch 100.
- 242 Introduction to Research in Psychology. 3 Hours.** 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: Credit or concurrent registration in Psch 100.
- 262 Physiological Psychology. 3 Hours.** 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: Psch 100.
- 270 Abnormal Psychology. 3 Hours.** 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: Psch 100.
- 303 Writing in Psychology. 3 Hours.** 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. Prerequisites: Psychology major, and junior or senior standing, and Psch 242, and a minimum of two courses from Psch 210, 262, 270, 312, 320, 350, 352, and 360.
- 305 History of Psychology. 3 Hours.** The history of scientific psychology with emphasis on forerunners of modern psychological issues. Prerequisite: 15 hours in psychology.
- 312 Social Psychology. 3 Hours.** Survey of theory and research in social psychology, emphasizing experimental investigations of attitudes and social cognition, and interpersonal relations and group processes. Prerequisite: Psch 242.
- 313 Laboratory in Social Psychology. 2 Hours.** Conduct laboratory and field experiments in social psychology on problems in attitudes and social cognition, and interpersonal relations and group processes. Prerequisites: Psch 343 and credit or concurrent registration in Psch 312.
- 315 Psychology of Women and Gender. 3 Hours.** Same as Gender and Women's Studies 315. 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. Prerequisite: Psch 242 or consent of the instructor.
- 320 Developmental Psychology. 3 Hours.** Analysis of research and theory concerning social, cognitive, and biopsychological aspects of human development. Prerequisite: Psch 242.
- 321 Laboratory in Developmental Psychology. 2 Hours.** Survey of dominant research strategies in contemporary developmental psychology. Laboratory experience in developmental research. Prerequisites: Psch 343 and credit or concurrent registration in Psch 320.



- 330 Industrial and Organizational Psychology. 3 Hours.** Application of psychological principles and methods to problems and issues in work organizations. Employee selection, motivation, job satisfaction, decision making, performance appraisal, group dynamics, power and politics, leadership, job design. Prerequisite: Psch 242.
- 331 Community and Prevention Research. 3 Hours.** Examines how researchers conceptualize, design, implement, and evaluate school and community programs to enhance competence, promote empowerment, and prevent behavioral problems. Prerequisites: Psch 231 and 343.
- 340 Psychological Testing. 3 Hours.** 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: Psch 242.
- 343 Statistical Methods in Behavioral Science. 3 Hours.** Credit is not given for Psychology 343 if the student has credit in Information and Decision Sciences 371. Introduction to statistical inference, probability distributions, sampling, hypothesis testing, correlation, and analysis of variance. Prerequisites: Math 090 or 118 or the equivalent, and Psch 242; or consent of instructor for non-psychology majors.
- 350 Sensation and Perception. 3 Hours.** Survey of theories and empirical findings in the study of sensation and perception. Emphasis on human vision and audition as information processing systems. Prerequisites: Psch 242.
- 351 Laboratory in Perception. 2 Hours.** Laboratory practicum in sensation and perception. Prerequisites: Psch 343 and credit or concurrent registration in Psch 350.
- 352 Cognition and Memory. 3 Hours.** Survey of experimental findings in human learning, memory, attention, knowledge representation, problem solving, conceptual behavior, and psycholinguistics. Prerequisite: Psch 242.
- 353 Laboratory in Cognition and Memory. 2 Hours.** Laboratory practicum in memory, psycholinguistics, problem solving, and reasoning. Prerequisites: Psch 343 and credit or concurrent registration in Psch 352.
- 354 Knowledge Acquisition. 3 Hours.** 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: Psch 242.
- 360 Learning and Conditioning. 3 Hours.** 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: Psch 242.
- 361 Laboratory in Learning and Conditioning. 2 Hours.** Animals used in instruction. Laboratory practicum in conditioning and simple learning using animal subjects. Emphasis on operant conditioning. Prerequisites: Psch 343 and credit or concurrent registration in Psch 360.
- 363 Laboratory in Physiological Psychology. 2 Hours.** Animals used in instruction. Laboratory practicum and demonstrations of research techniques used to study the physiological bases of behavior. Prerequisites: Psch 343 and credit or concurrent registration in Psch 262.
- 381 Psychology of Interviewing. 3 Hours.** Theory, research, and practice of interviewing. Emphasis on developing skills for interviewing individuals. Prerequisites: Psch 340 or 343, and either Psch 210 or 231.
- 382 Psychological Interventions. 3 Hours.** 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. Prerequisites: Psch 210, 270, and 343.
- 383 Psychology of Groups. 3 Hours.** 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. Prerequisites: Psch 340 or 343, and either Psch 210 or 231.
- 385 Field Work in Applied Psychology. 3 Hours.** A combined maximum of 8 hours of credit in Psch 385, 396, 397, and 399 may be applied toward the degree. 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. Prerequisites: Restricted to majors in the Applied Option of Psychology, who have completed all of the courses required for the Major in the Applied Option of Psychology and all but one of the optional requirements for a total of 10 courses in psychology.
- 394 Special Topics in Psychology. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Lectures devoted to an announced topic. Prerequisite: Psch 242.
- 395 Seminar in Psychology. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Satisfactory/Unsatisfactory grade only. Seminar devoted to special topics in psychology. Prerequisite: Psch 242.
- 396 Directed Research. 1 to 3 Hours.** Satisfactory/unsatisfactory grade only. May be repeated for credit. A combined maximum of 8 hours of credit in Psch 385, 396, 397, and 399 may be applied toward the degree. Students may register for more than one section per term. Participation in ongoing research in psychology under the direction of a faculty member. A final report describing the research and its theory is required. Prerequisites: Psch 242 and consent of the instructor and director of undergraduate studies.
- 397 Readings in Psychology. 1 to 3 Hours.** May be repeated for credit. A combined maximum of 8 hours of credit in Psch 385, 396, 397, and 399 may be applied toward the degree. Students may register for more than one section per term. Bibliographic research on a special topic under the direction of a faculty member. Paper is required for course credit. Prerequisites: Psch 343, a 4.00 grade point average, and consent of the instructor and the director of undergraduate studies.
- 399 Independent Research. 1 to 4 Hours.** May be repeated for credit. A combined maximum of 8 hours of credit in Psch 385, 396, 397, and 399 may be applied toward the degree. Students may register for more than one section per term. Individual research on a special topic under the direction of a faculty member. A paper is required for course credit. Prerequisites: Psch 343, one from Psch 313, 321, 351, 353, 361, 363; a 4.00 grade point average; membership in one of the departmental distinction programs; consent of the instructor and the director of undergraduate studies.
- 411 Stereotyping, Prejudice, and Racism. 3 Hours.** 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: Graduate standing in psychology or consent of the instructor.
- 415 Social Bases of Health Behavior. 3 Hours.** Psychological theory and research concerning the coronary-prone personality, pain management, controlling adherence to medical regimens, biofeedback, smoking, and weight control. Prerequisites: Psch 270 and consent of the instructor; or graduate standing.
- 417 Psychology and Law. 3 Hours.** Application of psychological theories to the development, operation, and effects of law; evaluation of different and similar approaches of law and psychology. Prerequisite: Psch 312 or consent of the instructor.
- 420 Social Development of Urban Children. 3 Hours.** Same as Educational Psychology 420. General principles of social development and socialization during childhood and the factors common to urban children that illustrate and modify these principles. Prerequisite: Admission to the graduate program in education or psychology or consent of the instructor.
- 422 Advanced Developmental Psychology and Educational Processes. 3 Hours.** Same as Education 422. Focuses on cognitive and social development from birth to adolescence. Examines relations between development, learning, and educational processes. Prerequisites: Psch 100 and any one from Ed 210, Psch 259, or 320; or graduate standing and consent of the instructor.
- 423 Characteristics of Early Adolescence. 3 Hours.** Same as Educational Psychology 446. Physiological, social, emotional and cognitive development of early adolescence. The relationship between these developmental characteristics and success in the middle grades. Prerequisites: Admission to the Ph.D. program in psychology; or approval of the College of Education or consent of the instructor, and Ed 210 or 421 or Psch 422 or the equivalent.
- 429 Constructivist Approaches to Development: Piaget and Vygotsky. 3 Hours.** Same as Educational Psychology 429. Piaget's and Vygotsky's theories of development of knowledge. Empirical and logico-mathematical forms of knowledge. Thought and action. Thought and language. Prerequisites: Graduate standing in education and Psch 422 or the equivalent or graduate standing in psychology or consent of the instructor.

**443 Advanced Statistics. 3 Hours.** 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: Psch 343.

**452 Human Learning and Memory. 3 Hours.** Survey of empirical research and theories concerning the human memory system and the encoding, retention, and retrieval of information in that system. Prerequisites: Graduate standing; or Psch 352 and consent of the instructor.

**454 Psychology of Language. 3 Hours.** Same as Linguistics 474 and Communication 454. Introductory survey of methods, theory and research; linguistic foundations, history, and present status of the field. Prerequisite: Graduate standing or consent of the instructor.

**455 Psychology of Thinking. 3 Hours.** Research and theory concerning higher mental processes, including problem solving, reasoning, judgment, and decision making. Prerequisites: Graduate standing; or Psch 352 and consent of the instructor.

**459 Cognitive Methods. 3 Hours.** 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: Graduate standing or consent of the instructor.

**460 Advanced Learning. 3 Hours.** Methods, results, and interpretation of experimental studies of basic learning processes in animal and human subjects. Prerequisites: Graduate standing; or Psch 360 and 361 and consent of the instructor.

**462 Advanced Physiological Psychology. 4 Hours.** Anatomical and physiological substrates of behavior. Prerequisites: Graduate standing; or Psch 262 and consent of the instructor.

**465 Sensory Processes. 3 Hours.** Psychophysical and physiological studies of sensory systems and processes. Primary emphasis on the early processing of visual stimuli. Prerequisites: Graduate standing; or Psch 351 and consent of the instructor.

**466 Motivation. 3 Hours.** Review of empirical data and theories concerning the physiological basis of motivational processes in animals and humans. Prerequisites: Graduate standing; or Psch 360 and consent of the instructor.

**467 Fundamentals of Neuroscience. 3 Hours.** Basic principles of neurophysiology and neuropharmacology including logic bases of nerve action, chemistry of synapses, and actions of pharmacological agents. Prerequisite: Graduate standing or Psch 262.

**481 Interviewing. 1 Hour.** Satisfactory/unsatisfactory grade only. Lecture on the theory and practice of clinical interviewing with supervised experience. Prerequisite: Graduate standing in psychology or consent of the instructor.

**494 Special Topics in Psychology. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Advanced treatment of an announced topic. Prerequisite: Graduate standing or consent of the instructor.

**495 Seminar in Psychology. 1 to 3 Hours.** May be repeated for a maximum of 9 hours of credit. Students may register for more than one section per term. Satisfactory/unsatisfactory grade only. Seminar devoted to special topics in psychology. Prerequisite: Graduate standing or consent of the instructor.

## Religious Studies (RELS)

**115 Understanding the Bible as Literature. 3 Hours.** Same as English 115 and Jewish Studies 115. 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.

**120 Catholic Thought: An Introduction. 3 Hours.** Same as Catholic Studies 120. Introduction to the main topics, interests, and methods of Catholic thought.

**130 Introduction to Islam. 3 Hours.** Introductory study of the religion, culture, and present variety of Islam in Islamic countries and in the West.

**150 Catholicism in U.S. History. 3 Hours.** Same as Catholic Studies 150 and History 150. The Catholic experience in the United States from its colonial origins to the present.

**193 The Divine Comedy. 3 Hours.** Same as Catholic Studies 193 and Italian 193. Taught in English. An in-depth study of the Divine Comedy, read in English, against the philosophical and theological background of the Middle Ages.

**230 Topics in Islam. 3 Hours.** May be repeated for credit if topic is different for each registration. Topics, issues, and methodologies in Islamic studies.

**250 Eastern and Western Philosophies of Religion. 3 Hours.** Eastern and Western philosophies of religion: Hinduism, Buddhism, Judaism, and Christianity.

**255 Religious Diversity: Conceptual and Practical Issues. 3 Hours.** 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.

**256 Religious Experiences in American History. 3 Hours.** Same as History 256. 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.

**294 Topics in Catholic History. 3 Hours.** Same as Catholic Studies 294 and History 294. May be repeated for credit if topic is different for each registration. 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.

**295 Topics in Catholic Thought. 3 Hours.** Same as Catholic Studies 295. May be repeated for credit if topic is different for each registration. 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.

**300 Augustine: Life and Thought. 3 Hours.** The life, times, and thought of Augustine (A.D. 354-430), perhaps the single most influential thinker in European history. Prerequisites: (Engl 160 and Engl 161) or (Engl 170 and Engl 171).

**320 Major Religious Thinkers. 3 Hours.** May be repeated for credit if topic is different for each registration. An examination of one or more major/classical thinkers and their writings. Prerequisite: One 100- or 200-level religious studies course.

**392 Major Problems in Religious Studies. 3 Hours.** May be repeated for credit if topic is different for each registration. In-depth examination of a major topic or problem in religious thought. Topics will vary. Prerequisite: At least one course in religious studies.

**394 Topics in Catholic History and Culture. 3 Hours.** Same as Catholic Studies 394 and History 394. Exploration of various topics in Catholic history and culture. Prerequisite: One course in history or Catholic studies; or consent of the instructor.

**415 Milton. 3 Hours.** Same as English 415. Survey of Milton's poetry and prose, with emphasis on *Paradise Lost*. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.

**446 Race, Ethnicity, and Gender in American Religion. 3 Hours.** Same as Sociology 446. 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. Prerequisites: SOC 100 and open only to juniors and seniors, or graduate standing or consent of instructor.

**478 The Bible as Literature. 3 Hours.** Same as Jewish Studies 478 and English 478. 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. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.

**479 Religion and Literature. 3 Hours.** Same as English 479. Literary works considered in the light of several religious traditions. Prerequisite: 6 hours of English from Engl 241, 242, 243, 300; or consent of the instructor.

**495 Topics in Religious History. 3 Hours.** Same as History 495. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of history or consent of the instructor.

## Russian (RUSS)

**101 Elementary Russian I. 4 Hours.** Four additional half hours each week in the language laboratory. For students who have had no formal work in Russian. Phonetics, introductory grammar, and reading.

**102 Elementary Russian II. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Russian 101. Prerequisite: Russ 101 or the equivalent.

**103 Intermediate Russian I. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Russian 102. Prerequisite: Russ 102 or the equivalent.

**104 Intermediate Russian II. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Russian 103. Prerequisite: Russ 103 or the equivalent.

- 115 Russian Culture Before the Revolution. 3 Hours.** The main trends of Russian thought and manners from the beginning to the Revolution: literature, philosophy, religion, art, architecture, intellectual life. Audiovisual emphasis.
- 116 Russian Culture: The Soviet Period. 3 Hours.** The transformation of Russian culture after 1917: literature, art, architecture, philosophy, intellectual trends; emphasis on the ideology of Socialist Realism. Audiovisual emphasis.
- 120 The Russian Short Story in Translation. 3 Hours.** Introduction to important Russian short stories of the nineteenth and twentieth centuries; the elements of fiction; close analysis of literary texts.
- 130 Masterpieces of Russian Literature in Translation. 3 Hours.** Introduction to Russian novellas and novels of the nineteenth and twentieth centuries.
- 150 Introduction to Russian Cinema. 3 Hours.** Taught in English. Films screened with English subtitles. 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.
- 241 Dostoyevsky. 3 Hours.** Selected short stories and novels. Taught in English.
- 242 Tolstoy. 3 Hours.** Discussion of selected short stories and plays. Taught in English.
- 244 Women in Russian Literature. 3 Hours.** Same as Gender and Women's Studies 244. Major works by and about women in Russian literature: experiences of women and societal attitudes toward them. Taught in English.
- 301 Russian Composition and Conversation I. 3 Hours.** Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. Prerequisite: Russ 104 or the equivalent.
- 302 Russian Composition and Conversation II. 3 Hours.** Continues Russian 301. Prerequisite: Russ 301 or the equivalent.
- 321 Introduction to Russian Literature I. 3 Hours.** Literature of the nineteenth century. Taught in English. Prerequisite: Junior standing or consent of the instructor.
- 322 Introduction to Russian Literature II. 3 Hours.** Literature of the twentieth century. Taught in English. Prerequisite: Junior standing or Russ 321, or consent of the instructor.
- 399 Independent Study. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Investigation of special problems under the general direction of a staff member. Prerequisites: Junior standing and consent of the instructor and the head of the department.
- 401 Russian Composition and Conversation III. 3 Hours.** Oral presentations, compositions, conversation: daily life and current events. Problems of grammar and syntax. Improving pronunciation and intonation. Reading. Prerequisite: Russ 302 or the equivalent.
- 402 Russian Composition and Conversation IV. 3 Hours.** Continuation of Russian 401. Prerequisite: Russ 401 or the equivalent.

- 410 Structure of Modern Russian. 3 Hours.** 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. Prerequisite: At least 4 semester hours of Russian or the equivalent.
- 450 Studies in the Russian Novel. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a major novelist, movement, or special themes. Content varies. Prerequisite: 24 hours of Russian or consent of the instructor.
- 460 Studies in Russian Literature. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a major author, movement, genre, or special topic. Content varies. Prerequisite: 24 hours of Russian or consent of the instructor.
- 499 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Graduate students may register for more than one section per term; undergraduates may only register for one section per term. Investigation of special problems under the general direction of a staff member. Prerequisite: Senior or graduate standing and consent of the instructor and the head of the department.

## Slavic (Slav)

- 101 Elementary Serbian I. 4 Hours.** Four additional half hours each week in the language laboratory. For students who have had no formal work in Serbian. Phonetics, introductory grammar, and reading.
- 102 Elementary Serbian II. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Slavic 101. Prerequisite: Slav 101 or the equivalent.
- 103 Intermediate Serbian I. 4 Hours.** Continues Slavic 102. Prerequisite: Slav 102 or the equivalent.
- 104 Intermediate Serbian II. 4 Hours.** Continues Slavic 103. Prerequisite: Slav 103 or the equivalent.
- 111 Elementary Ukrainian I. 4 Hours.** Four additional half hours each week in the language laboratory. For students who have had no formal work in Ukrainian. Phonetics, introductory grammar, and reading.
- 112 Elementary Ukrainian II. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Slavic 111. Prerequisite: Slav 111 or the equivalent.
- 113 Intermediate Ukrainian I. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Slavic 112. Prerequisite: Slav 112 or the equivalent.
- 114 Intermediate Ukrainian II. 4 Hours.** Four additional half hours each week in the language laboratory. Continues Slavic 113. Prerequisite: Slav 113 or the equivalent.
- 115 Serbian Culture. 3 Hours.** Development of Serbian culture and thought from earliest times to the present: intellectual currents, art, architecture, literary landmarks, traditional ethics, and society.
- 116 Old Slavic and Ukrainian Folklore and Mythology. 3 Hours.** The mythology and folklore of the Ukrainian culture and its close interrelationship with other Old Slavic mythologies and folklores.
- 219 Serbian Folklore and Folk Mythology. 3 Hours.** Serbian folk tales, epic and lyric poetry and related traditional beliefs, customs and ethical norms. Taught in English.
- 222 Modern Serbian Literature. 3 Hours.** Serbian literature of the nineteenth and twentieth centuries. Prerequisite: Sophomore standing or consent of the instructor.
- 301 Serbian Composition and Conversation I. 3 Hours.** Composition and conversation, systematic grammar, vocabulary development, and aural comprehension. Prerequisite: Slav 104 or the equivalent.
- 302 Serbian Composition and Conversation II. 3 Hours.** Continues Slavic 301. Prerequisite: Slav 301 or the equivalent.
- 324 Writing About Literature. 3 Hours.** Content and form of literary essay. Selected Slavic literary masterworks analyzed from ethical, structural, historical/sociological, and psychological points of view. Prerequisite: Junior standing.
- 399 Independent Study. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Investigation of special problems under the general direction of a staff member. Prerequisites: Junior standing and consent of the instructor and the head of the department.
- 405 Problems in Slavic Grammars. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Systematic review of important topics in grammar and syntax. Content varies. Required for department undergraduate majors in Slavic programs. Prerequisites: Russ 302 or Pol 302 or Slav 302 or the equivalent.
- 410 Structure of Modern Serbian. 3 Hours.** A synchronic linguistic analysis of Serbian phonology and morphology, with fundamentals of syntax. Prerequisite: Slav 104 or the equivalent or consent of the instructor.
- 433 Topics in Eastern European History. 3 Hours.** Same as History 433. May be repeated for credit. Students may register for more than one section per term. Specific topics are announced each term. Prerequisite: 3 hours of European history or consent of the instructor.
- 460 Studies in East European Literatures and Culture. 3 Hours.** May be repeated for a maximum of 9 hours of credit. Study of a topic, author, genre, or movement. Prerequisite: 24 hours of Slavic or Baltic; or consent of the instructor.
- 470 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.
- 471 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.



- 499 Independent Study. 1 to 4 Hours.** May be repeated for a maximum of 8 hours of credit. Graduate students may register for more than one section per term; undergraduate students may only register for one section per term. Investigation of special problems under the general direction of a staff member. Prerequisites: Senior or graduate standing and consent of the instructor and the head of the department.

## Sociology (Soc)

- 100 Introduction to Sociology. 3 Hours.** Analysis of human societies, organizations, and groups and the interrelations among individuals, groups, and societies.
- 104 Honors Introduction to Sociology. 3 Hours.** For Honors College students. Credit is not given for Sociology 104 if the student has credit in Sociology 100. May be substituted for Sociology 100 as prerequisite for other sociology courses. Prerequisite: Honors College membership or consent of the instructor.
- 105 Social Problems. 3 Hours.** May be substituted for Sociology 100 as prerequisite for other sociology courses. Contemporary social problems examined from the perspectives of social institutions, culture, inequality, organizations and groups, political and economic structure, social change, and social policy.
- 110 Introduction to Social Psychology. 3 Hours.** Credit is not given for Sociology 110 if the student has credit in Psychology 312. Major explanations, empirical research, and practical applications of social psychology; relations among individuals and between individuals and social groups.
- 201 Introductory Sociological Statistics. 4 Hours.** 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. Prerequisites: Soc 100 and either Math 090 or 092 or 118 or the equivalent; or consent of the instructor.
- 202 Introduction to Sociological Research. 4 Hours.** 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. Prerequisite: Soc 100.
- 203 The African-American Family in the United States. 3 Hours.** Same as African-American Studies 203. Examination of the structure and functioning of the African-American family. Historical and contemporary analyses. Prerequisite: AASt 100 or Soc 100 or consent of the instructor.
- 212 Human Sexuality: Social Perspectives. 3 Hours.** 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: Soc 100.
- 216 Social Movements. 3 Hours.** Origins, development, and consequences of social movements; conflict, solidarity, obedience, ideologies, mobilization, leadership, organization, confrontation, control by authorities. Prerequisite: Soc 100.
- 223 Youth and Society. 3 Hours.** Demographic, social, and economic position of adolescents and youth in premodern and modern societies; evolution of youth culture and subcultures; student movements and activism. Prerequisite: Soc 100.
- 224 Gender and Society. 3 Hours.** Same as Gender and Women's Studies 224. Sociological perspectives on gender as a factor in social stratification; gender role acquisition; individual and social consequences of changing social definitions of gender roles. Prerequisite: Soc 100 or GWS 101 or GWS 102.
- 225 Racial and Ethnic Groups. 3 Hours.** Same as Latin American and Latino Studies 225. 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. Prerequisite: Soc 100 or consent of the instructor.
- 226 Latinas in the United States. 3 Hours.** Same as Latin American and Latino Studies 276 and Gender and Women's Studies 276. Socioeconomic conditions and cultural experiences of Latinas in the United States. Historical and contemporary views of labor, health, education, family, identity formation and leadership.
- 228 Sociology of Asia and Asian Americans. 3 Hours.** Same as Asian Studies 228. 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. Prerequisite: Soc 100.
- 231 Criminology. 3 Hours.** Same as Criminal Justice 220. Introductory survey of the literature developed by criminologists in their study of crime in American society. Prerequisite: CrJ 101.
- 241 Social Inequalities. 3 Hours.** Dimensions of inequality: economy, education, housing, health care; power, status, and self-esteem; inequality and social policy. Prerequisite: Soc 100.
- 244 Work in a Changing Society. 3 Hours.** Impact of bureaucracy, technology, and automation; changing composition of labor force: women, youth, elderly, racial, and ethnic minorities; international comparisons; policy implications. Prerequisite: Soc 100.
- 245 Marriage and Family. 3 Hours.** 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: Soc 100.
- 246 Sociology of Religion. 3 Hours.** Analysis of the structures and functions of religious institutions, particularly as found in modern society. Special attention to the interplay between religion and other social phenomena, such as economics, politics, and secular culture. Current trends in religious institutions. Occasional field trips. Prerequisites: 3 hours of social science courses and sophomore standing.
- 251 Health and Society. 3 Hours.** Health care systems; special emphasis on United States; dimensions of wellness and sickness including mental health; health providers, organizations, and institutions and their relations. Prerequisite: Soc 100.
- 265 Sociology of Politics. 3 Hours.** 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: Soc 100.
- 268 Introduction to Comparative Sociology. 3 Hours.** Comparisons of population, culture, economics, politics, and social relations among contemporary societies. Relations among institutional areas and among societies. Prerequisite: 3 hours of social science courses.
- 276 Urban Sociology. 3 Hours.** Examination of the history, patterns, and consequences of urban places and life in those places. Prerequisite: Soc 100.
- 296 Supervised Study or Research. 1 to 3 Hours.** May be repeated for a maximum of 9 hours of credit with the consent of the department. Students may register for more than one section per term. Special projects arranged in advance by faculty or student initiative. Prerequisites: 9 hours of sociology, consent of the instructor, and approval of the department prior to registration.
- 298 Internship in Sociological Applications. 1 to 3 Hours.** May be repeated for a maximum of 3 hours of credit. Placement in a university or external organization where students participate in a project using sociological skills under the direction of a field supervisor. Prerequisites: Soc 201, 202, and approval of the department.
- 299 Honors Course. 1 to 3 Hours.** May be repeated for a maximum of 9 hours credit with consent of the department. Students may register for more than one section per term. Individual study or research. Prerequisites: Major in sociology, Soc 201 and 202, consent of the instructor, and approval of the department.
- 371 African-Americans and the Criminal Justice System. 3 Hours.** Same as African-American Studies 371 and Criminal Justice 343. Examination of the status of African-Americans as offenders, victims, and personnel within the criminal justice system. Prerequisite: 9 hours of upper-division African-American studies, criminal justice, or sociology; or consent of the instructor.
- 400 Sociological Analysis. 3 Hours.** Procedures for analyzing original or secondary research data; writing literature reviews, proposals, data summaries, and research reports; computer-assisted data analysis and text preparation. Prerequisites: Soc 201 and 202 or 6 hours of upper-division courses in the social sciences, including at least one course in introductory statistics and research methods, or consent of the instructor.
- 401 Sociological Statistics. 3 Hours.** 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. Prerequisites: Soc 201 and 202; or consent of the instructor.
- 402 Intermediate Sociological Statistics. 3 Hours.** The general linear model emphasizing regression. Analysis of variance and covariance. Simple structural equation models. Simple categorical methods. Elementary matrix algebra. Prerequisite: Soc 401.



**405 Writing in the Social Sciences. 3 Hours.** Leads to effective, clear writing for a social science audience. Teaches how to organize ideas, avoid tiresome jargon and write with precision. Prerequisite: 6 hours of upper-division social science courses.

**408 Fieldwork: Ethnographic and Qualitative Fieldwork Techniques. 3 Hours.** Same as Anthropology 418. Practical introduction to the techniques of anthropologists and qualitative sociologists for research in natural social settings: participant observation/nonparticipant observation, interviewing, use of documentary sources. Prerequisites: Junior standing and Anth 213 or Soc 202 or consent of the instructor.

**424 Sociology of Gender. 3 Hours.** Same as Gender and Women's Studies 425. Variety and change in gender roles; patterns and consequences of gender inequality; gender and sexuality; gender and social institutions such as family, economy. Prerequisite: 6 hours of upper-division sociology or gender and women's studies courses or consent of the instructor.

**425 Race and Ethnic Relations. 3 Hours.** Critical examination of the conceptual frameworks and empirical findings in the study of race and ethnic relations. Prerequisites: 6 hours of upper-division sociology, including Soc 225, or consent of the instructor.

**426 Topics in Race and Ethnic Relations. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Intensive examination of a specialized topic announced when the class is scheduled. Prerequisites: 6 hours of upper-division sociology, including Soc 225, or consent of the instructor.

**440 Topics in Organizations and Institutions. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Intensive examination of a specialized topic announced when the class is scheduled. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**441 Social Stratification. 3 Hours.** 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. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**444 Industrial Sociology. 3 Hours.** Same as Management 444. Analysis of industrial society and industrial institutions, the meaning of work and work relations, technology and economic change. Prerequisite: 6 hours of upper-division sociology or management or consent of the instructor.

**445 Sociology of the Family. 3 Hours.** Variety and change in family patterns, family formation and break-up, parents' and children's effects on each other, influences of culture and political economy, consequences for other institutions. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**446 Race, Ethnicity, and Gender in American Religion. 3 Hours.** Same as Religious Studies 446. 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. Prerequisites: SOC 100 and open only to juniors and seniors, or graduate standing or consent of instructor.

**447 Organizations. 3 Hours.** Same as Management 447. Characteristics of business, government, and not-for-profit organizations; approaches used to study organizations; theoretical and empirical analysis of organizational processes. Prerequisite: 6 hours of upper-division sociology, management, or political science; or consent of the instructor.

**448 Sociology of Development. 3 Hours.** Historical, economic, political, social, and geographic factors shaping national and international development experiences and outcomes. Prerequisite: 6 hours of upper-division social science courses or consent of the instructor.

**451 Medical Sociology. 3 Hours.** 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. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**455 Topics in Medical Sociology. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Intensive examination of a specialized topic announced when the class is scheduled. Prerequisite: Soc 451 or consent of the instructor.

**465 Topics in Sociology of Politics. 3 Hours.** Same as Political Science 465. May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Intensive examination of a specialized topic announced when the class is scheduled. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**471 Population. 3 Hours.** Same as Epidemiology 471. 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. Prerequisite: 6 hours of upper-division sociology, including Soc 201, or consent of the instructor.

**473 Cities and Regions. 3 Hours.** 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. Prerequisite: 6 hours of upper-division sociology, including Soc 201, or consent of the instructor.

**476 Topics in Urban Sociology. 3 Hours.** May be repeated for a maximum of 12 hours of credit. Students may register for more than one section per term. Intensive examination of a specialized topic announced when the class is scheduled. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**485 Classical Sociological Theory. 3 Hours.** Survey and analysis of classical European and American social theory, such as Marx, Weber, Durkheim, Veblen, and Park. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**487 Contemporary Sociological Theory. 3 Hours.** Review and evaluation of major currents in sociological theory since the 1940s. Prerequisite: 6 hours of upper-division sociology or consent of the instructor.

**488 Theories in Social Psychology. 3 Hours.** In-depth treatment of major theoretical traditions in social psychology. Prerequisite: Soc 110 or 410 or consent of the instructor.

**496 Independent Study or Research. 1 to 9 Hours.** May be repeated for credit with the approval of the department. Undergraduates may take a maximum of 9 hours of credit. Students may register for more than one section per term. Extensive readings in specialized areas of sociology or empirical research for advanced undergraduate or graduate students. Prerequisites: 18 hours of sociology, excluding Soc 296 and 299, consent of the instructor, and approval of the department.

## Spanish (Span)

**100 Elementary Spanish Review. 4 Hours.** Language laboratory required. For students with two or three years of high school Spanish. Practice in listening and speaking. Emphasis on communication. Completion leads to Spanish 103. Prerequisites: Two or three years of high school Spanish and placement by department.

**101 Elementary Spanish I. 4 Hours.** One-hour language laboratory required per week. For students who have never studied Spanish. Language communication. Practice in listening and speaking.

**102 Elementary Spanish II. 4 Hours.** One-hour language laboratory required per week. Continues Spanish 101. Language communication, listening and speaking skills. Prerequisite: Span 101 or placement by department.

**103 Intermediate Spanish I. 4 Hours.** Language laboratory required. Greater stress on writing skills without forgoing speaking and reading skills. Completion leads to Spanish 105 or 107. Prerequisite: Span 100 or 102.

**104 Topics in Spanish Language and Culture. 4 Hours.** This course can be used to complete the fourth semester requirement in Spanish. Students work with more advanced grammatical concepts in Spanish while also studying some aspect of Spanish-speaking culture. Prerequisite: Span 103 or placement by the department.

**105 Intermediate Spanish II: Reading Emphasis. 4 Hours.** Credit is not given for both Spanish 105 and 107. Development of reading skills without forgoing speaking and writing practice. Prerequisite: Span 103 or placement by department.

**107 Intermediate Spanish II: Oral Emphasis. 4 Hours.** Credit is not given for both Spanish 107 and 105. Language laboratory required. Development of oral communication skills without forgoing reading and writing practice. Prerequisite: Span 103 or placement by department.

**112 Spanish for Students from Hispanic Background I. 4 Hours.** For students of Hispanic background who have some knowledge of Spanish. Principal emphasis is on writing and reading. Prerequisite: Placement by department.

**113 Spanish for Students from Hispanic Background II. 4 Hours.** Continuation of Spanish 112. Introduction of Hispanic literature selections, as well as continued emphasis on writing and vocabulary building. Prerequisite: Span 112 or placement by department.

**114 Spanish for Students from Hispanic Background III. 4 Hours.** Continuation of Spanish 113. Increased emphasis on composition and reading ability. Prerequisite: Span 113.

- 190 Contemporary Latin American Literature in Translation. 3 Hours.** Does not count toward Spanish major or minor. Major works of the literatures of Spanish America. Reading of Asturias, Borges, Garcia Marquez, and others.
- 192 From the Convent to the Streets: Latin American Women Writers in Translation. 3 Hours.** Same as Gender and Women's Studies 192 and Latin American and Latino Studies 192. Taught in English. No credit toward any major or minor program in Spanish. 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.
- 193 Spanish Literature in Translation. 3 Hours.** Taught in English. Major works of the literature of Spain from medieval to modern. Readings from the epic, the picaresque novel, *Celestina*, Garcia Lorca, Cela and others.
- 196 Totalitarianism, Writing and Cinema. 3 Hours.** Same as French 196 and Italian 196. Taught in English. Two additional hours for viewing films (every two weeks). 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. Prerequisite: Consent of the instructor.
- 200 Conversational Spanish. 3 Hours.** Not open to fluent Spanish speakers. Practice of conversational strategies for developing communicative competence in Spanish. Review of basic grammatical structures. Prerequisite: Span 105 or 107.
- 201 Spanish Composition. 3 Hours.** Development and practice of basic techniques in Spanish composition without foregoing conversational practice. Review and practice of grammar. Prerequisite: Span 114 or 200.
- 205 Introduction to Spanish Phonetics. 3 Hours.** Introductory analysis of and practice in the Spanish sound system. Contrastive work in English and Spanish sounds. Laboratory and recording exercises. Prerequisite: Span 114 or 200.
- 210 Introduction to the Reading of Hispanic Texts. 3 Hours.** Close reading of Hispanic short stories, poems, and one-act plays. Application of basic literary concepts through the writing of critical analyses. Prerequisite: Span 105 or 107 or 114, or placement by department.
- 211 Introduction to the Analysis of Hispanic Texts. 3 Hours.** Close reading of short novels and dramas. Writing of critical analyses using concepts such as irony, narrative voice, and treatment of time. Prerequisite: Span 210.
- 220 Spanish for Business and Law. 3 Hours.** Practice in conversation, composition, and grammar, emphasizing usage specific to the areas of business and law. Prerequisite: Span 105 or 107 or 114.
- 221 Spanish for Health Personnel. 3 Hours.** Practice in conversation, composition, and grammar, emphasizing usage specific to the health fields. Prerequisite: Span 105 or 107 or 114.
- 230 Civilization and Culture of Spain. 3 Hours.** Cultural aspects of Spanish civilization. Prerequisite: Span 201 or consent of the instructor.
- 231 Civilization and Culture of Spanish America. 3 Hours.** Cultural aspects of Spanish-American civilization. Prerequisite: Span 201 or consent of the instructor.
- 260 Meso-American Literature and Culture. 3 Hours.** Reading, discussion, and written analysis of works by Mexican, Caribbean, and Central American writers. Prerequisite: Proficiency in Spanish.
- 261 South American Literature and Culture. 3 Hours.** Reading, discussion, and written analysis of works by South American writers. Prerequisite: Proficiency in Spanish.
- 300 Introduction to Hispanic Linguistics. 3 Hours.** Description of the Spanish linguistic system, its dialects, and history. Prerequisite: Span 201 or consent of the instructor.
- 303 Advanced Spanish Composition. 3 Hours.** Practice in advanced techniques in Spanish composition without foregoing conversational practice. Models from representative Spanish essays and short stories. Review of selected syntactic structures. Prerequisite: Span 201 or consent of the instructor.
- 305 Advanced Spanish Grammar. 3 Hours.** Study of syntactic and morphological structures of the Spanish language. Prerequisites: Span 201 and 210, or consent of the instructor.
- 306 Introduction to the Writing of Poetry. 3 Hours.** An introductory course in the reading and writing of Spanish and Latin American poetry. Prerequisites: Span 210, 211, and 303 and consent of the instructor.
- 310 Early Spanish Literature and Society. 3 Hours.** Significant literary texts from 1140-1700 considered in relation to their cultural background, social relevance, and influence. Prerequisite: Span 211.
- 311 Modern Spanish Literature and Society. 3 Hours.** Representative works from the Enlightenment to the present; Becquer, Galdos, Machado, Valle-Inclan, Lorca, Delibes, and others. Prerequisite: Span 211 or the equivalent.
- 312 Spanish American Literature and Society. 3 Hours.** The evolution of Spanish American literature and society from Columbus to the New Novelists, from European projection to New World synthesis. Prerequisite: Span 211.
- 314 Spanish American Literature from Columbus to Modernismo. 3 Hours.** An examination of primary intellectual and aesthetic issues in representative texts of the Spanish American literary tradition from Columbus to Modernismo. Prerequisite: SPAN 211 and sophomore standing or above.
- 315 Spanish American Literature since Modernismo. 3 Hours.** An examination of primary intellectual and aesthetic issues in representative texts of the contemporary Spanish American literary tradition. Prerequisite: SPAN 211; and sophomore standing or above.
- 320 Advanced Business Spanish. 3 Hours.** 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. Prerequisites: Span 220 and 303; and Econ 120 and 121 or consent of the instructor.
- 360 Study Abroad. 0 to 18 Hours.** May be repeated for second-semester credit. Studies in Spanish language, literature, history, and culture offered by the University Junior Year Abroad Program in Spain. Prerequisites: Span 105 or 107 or 114, and admission to Year Abroad Program.
- 370 Writing and Research in the Major. 1 Hour.** Same as French 370 and Italian 370. Required for majors in the Department. Perfecting writing and expository skills in English. Prerequisite: Junior or senior standing and approval of the department.
- 375 Topics in Hispanic Literature and Culture. 3 Hours.** May be repeated for a maximum of 6 hours of credit. Taught in Spanish. A thematic study of Hispanic literature and culture. Prerequisites: Sophomore standing or above and consent of the instructor and two 200-level Spanish courses.
- 390 Senior Seminar: Topics in Research and Writing. 3 Hours.** 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: 24 advanced hours in Spanish (including at least one course from Span 310, 311, or 312) or consent of the instructor.
- 400 History of the Spanish Language. 3 Hours.** Origins and development of Spanish; phonological, morphological, syntactic development of the language; foreign influences; origin of dialects. Prerequisite: Span 205 or 300, or consent of the instructor.
- 402 Spanish Syntax. 3 Hours.** Structure of the grammatical system of Spanish. Analysis of the most important syntactic phenomena with emphasis on the meaning and function of grammatical forms. Prerequisite: Span 305 or consent of the instructor.
- 403 Advanced Spanish Syntax. 3 Hours.** Structure of the grammatical system of Spanish. In-depth analysis of selected syntactic phenomena. Prerequisite: Span 402 or the equivalent or consent of the instructor.
- 404 Spanish Phonology and Morphology. 3 Hours.** Analysis of the phonological and morphological structure of Spanish. Emphasis on the production and mental representation of sounds. Prerequisite: Span 205 or the equivalent.
- 405 Advanced Spanish Phonology and Morphology. 3 Hours.** Advanced and detailed study of the phonological and morphological structure of Spanish. Emphasis on current theories. Prerequisite: Span 404 or the equivalent or consent of the instructor.
- 406 Spanish Sociolinguistics. 3 Hours.** Past and current theoretical and empirical sociolinguistics as applied to the study of variation within Spanish and U.S. Hispanic communities. Prerequisite: Span 402 or 404 or consent of the instructor.
- 408 Hispanic Dialectology. 3 Hours.** Descriptive and historical analysis of the most salient linguistic phenomena of peninsular and American Spanish dialects. Prerequisite: Span 300 or 404 or the equivalent.
- 410 Spanish Medieval Literature. 3 Hours.** 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*. Prerequisite: Span 310.



- 412 Literary Forms in the Early Spanish Golden Age. 3 Hours.** Renaissance and sixteenth-century lyric poetry; examples of picaresque, pastoral, and mystical prose. Prerequisite: Span 310.
- 413 Literary Forms in the Later Spanish Golden Age. 3 Hours.** The comedia; culteranismo and conceptismo; the prose of Quevedo and Gracian. Prerequisite: Span 310.
- 414 Don Quijote. 3 Hours.** Detailed study of the text; novelistic techniques and influence on the development of the novel. Prerequisite: Span 310.
- 421 Modern Spanish Literature II: From Unamuno to Garcia Lorca. 3 Hours.** Representative authors and tendencies from the end of the nineteenth century to the outbreak of the Civil War. Prerequisite: Span 311.
- 422 Contemporary Spanish Literature: From Cela to the Present. 3 Hours.** The most important authors and tendencies in twentieth-century Spain. Prerequisite: Span 311.
- 427 Studies in Language Policy and Cultural Identity. 3 Hours.** Same as Latin American and Latino Studies 427. Taught in English. Previously listed as LAST 330 or LALS 330. 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. Prerequisite: LALS 101; and junior standing or above; and consent of the instructor. Reading and writing knowledge of Spanish.
- 430 Spanish American Literature of the Colonial Period. 3 Hours.** Conquest to Independence. From the narrative of Discovery, Conquest and indigenous traditions, to Renaissance epic, Baroque poetry, and the literature of the Enlightenment. Prerequisite: Span 312.
- 431 Modern Spanish American Literature I. 3 Hours.** Nineteenth-century literary trends from the beginnings of the novel through Romanticism and Realism to Modernismo. Prose and poetry. Prerequisite: Span 312.
- 432 Modern Spanish American Literature II. 3 Hours.** Representative authors and movements from post-modernismo through Vanguardism and the tendencies of the last twenty years. Emphasis on poetry. Prerequisite: Span 312.
- 433 Modern Spanish American Narrative. 3 Hours.** The development of fiction in Spanish America from the Romantic era to the neo-realist novel and short story of the 1930s. Prerequisite: Span 312.
- 434 Contemporary Spanish American Narrative. 3 Hours.** 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." Prerequisite: Span 312.
- 435 Advanced Topics in Hispanic Literature. 3 Hours.** 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. Prerequisites: Span 210 and 211 and consent of the instructor.
- 436 Special Topics in the Teaching of Spanish. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Course content is announced prior to each term in which course is given. Taught in English. Some semesters, may be taught in Spanish. Prerequisite: Approval of the department.
- 448 Foundations of Second Language Teaching. 3 Hours.** Same as French 448 and Germanic Studies 448. Taught in English. 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. Prerequisite: Junior standing or above and consent of the instructor; and three courses at the 200 and 300-levels.
- 449 Teaching Second Language Literacy and Cultural Awareness. 3 Hours.** Same as French 449 and Germanic Studies 449. Taught in English. 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. Prerequisite: Junior standing or above and consent of the instructor.
- 450 Foreign Language Teaching Methodology. 3 Hours.** Same as French 481 and Italian 460. Theories of second language learning. Evaluative procedures emphasizing oral proficiency testing, analysis of textbooks. Preparation and presentation of micro-lessons. Twenty hours of high school observation. Prerequisites: Junior standing and three courses at the 200 and 300 levels.
- 451 Educational Practice with Seminar I. 6 Hours.** Graduate credit only with approval of the department. The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department.
- 452 Educational Practice with Seminar II. 6 Hours.** Graduate credit only with approval of the department. The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Prerequisites: 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.
- 453 Spanish Applied Linguistics and Teaching. 3 Hours.** Issues in second language acquisition and foreign language acquisition research. Analysis of traditional and innovative methods in Spanish as a foreign and second language. Prerequisites: Advanced undergraduate or graduate standing and consent of the instructor.
- 401 Introduction to Probability. 3 Hours.** Probability spaces, random variables and their distributions, conditional distribution and stochastic independence, special distributions, sampling distributions, limit theorems. Prerequisite: Grade of C or better in Math 210.
- 411 Statistical Theory. 3 Hours.** Estimation, tests of statistical hypotheses, best tests, sufficient statistics, Rao-Cramer inequality, sequential probability ratio tests, the multivariate normal distribution, nonparametric methods. Prerequisite: Grade of C or better in Stat 401.
- 416 Nonparametric Statistical Methods. 3 Hours.** 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. Prerequisite: Grade of C or better in Stat 381 or 411.
- 431 Introduction to Survey Sampling. 3 Hours.** Simple random sampling, sampling proportions, estimation of sample size, stratified random sampling, ratio estimators, regression estimators, systematic and cluster sampling. Prerequisite: Grade of C or better in Stat 411 or 481.
- 461 Applied Probability Models I. 3 Hours.** Computing probabilities and expectations by conditioning, Markov chains, Chapman-Kolmogorov equations, branching processes, Poisson processes and exponential distribution, continuous-time Markov chains, reversibility, uniformization. Prerequisite: Grade of C or better in Stat 401.
- 462 Applied Probability Models II. 3 Hours.** 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. Prerequisite: Grade of C or better in Stat 461.
- 471 Linear and Non-Linear Programming. 3 Hours.** 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. Prerequisite: Grade of C or better in Math 310.
- 473 Game Theory. 3 Hours.** Games in extensive and normal form. Minimax theorem. Solving matrix games via linear programming. Nash equilibria for nonzero-sum games, Shapley value, bargaining models. Prerequisites: Grade of C or better in Math 310 or Stat 401.
- 477 Introduction to Reliability Theory. 3 Hours.** Structural and probabilistic properties of coherent systems, notions of aging and classes of life distributions, preservation properties, dependent components, optimal allocation models. Prerequisite: Grade of C or better in Stat 401 or consent of the instructor.
- 481 Applied Statistical Methods II. 3 Hours.** 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. Prerequisite: Grade of C or better in Stat 381.

## Statistics (Stat)

- 381 Applied Statistical Methods I. 3 Hours.** Introduction to probability, random variables, sampling distributions, estimation, confidence intervals, and tests of hypotheses on a post-calculus level. Includes SAS and SPSSX applications. Prerequisite: Grade of C or better in Math 210.

**486 Statistical Consulting. 3 Hours.**

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. Prerequisites: Grade of C or better in Stat 411 or 481.

**494 Special Topics in Statistics, Probability, and Operations Research. 3 Hours.**

May be repeated for credit. Students may register for more than one section per term. Course content is 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. Prerequisite: Approval of the department.

**496 Independent Study. 1 to 4 Hours.**

May be repeated for credit. Students may register for more than one section per term. Reading course supervised by a faculty member. Prerequisites: Approval of the instructor and the department.



# College of Nursing Contents

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# College of Nursing

**845 South Damen Avenue**

**(312) 996-7800**

**Dean of the College:** Joan Shaver.

**Associate Dean for Academic Advancement, Baccalaureate Nursing Program and Director of Graduate Studies:** Carole Kenner.

**Associate Dean of Global Health and Leadership:** Beverly J. McElmurry.

**Acting Head, Department of Maternal-Child Nursing:** Rosemary White-Traut.

**Head, Department of Medical-Surgical Nursing:** Janet Larson.

**Head, Department of Public Health, Mental Health, and Administrative Nursing:** Lucy Marion.

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 health care. 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,<sup>1</sup> 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 and a Master of Public Health; and the Doctor of Philosophy in Nursing Sciences, with entry at post-baccalaureate or post-master's. The generic BSN curriculum is offered at Chicago and Urbana-Champaign campuses. Programs for the registered nurse to earn a BSN are offered at Chicago, Urbana-Champaign, and the Quad Cities. In addition to the graduate programs offered at the Chicago campus, master's programs are offered at Peoria, Urbana-Champaign, Rockford, and the Quad-Cities 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 non-nursing 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 Professional Regulation (IDPR). The college holds membership in the American Association of Colleges of Nursing.

## Admission to the College

### Transfer Student Admission Requirements

The College of Nursing admits qualified junior-level transfer students from accredited institutions. Transfer student applicants are required to have a 3.50 (A=5.00) cumulative transfer grade point average and a 3.00 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

Qualified applicants with an RN license are admitted for fall term only to the RN/BSN program at regional sites-in odd years-Quad Cities (Fall 2001) and even years-Urbana (Fall 2002). Applicants are admitted at Chicago each fall. RN/BSN applicants are required to meet the transfer student admission requirements: 2.5 (A= 4.0) or 3.5 (A= 5.0) minimum cumulative GPA, a 2.0 (A= 4.0) or 3.0 (A= 5.0) natural science GPA, and completion of the required prerequisite LAS courses.

At the Chicago campus, the curriculum may be completed on a full-time basis in two semesters. However, most students enroll for part-time study taking three semesters or longer. At the regional sites, RN/BSN study is generally on a part-time basis. Contact the Quad Cities or Urbana-Champaign offices for the specific program plans. 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 website [www.itransfer.org/IAI/FACT/](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 (33) 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 non-baccalaureate 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.

1. Name change from "Health and Human Development Sciences" pending approval at time of publication.

## Additional Requirements

### CPR Certification

Prior to matriculation, students must hold current CPR certification. Contact the American Red Cross (Basic Life Support), local park district, fire department, or hospital for available courses. CPR certification must be kept current throughout the educational program.

### Health Status

Every student admitted to the College of Nursing must have the following submitted prior to beginning the program: documentation of the dates of polio and diphtheria/tetanus vaccination; copies of laboratory test documentation of immunity to rubeola (measles), mumps, rubella, and varicella (chicken pox); administration dates of Hepatitis B vaccine (individual programs may also require HbsAB); and annual TB (PPD) skin testing. These tests and vaccinations are for the protection of the clients we serve as well as the health of the student.

### 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.

### Application Deadlines

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 February 1. All decisions are communicated in writing. No decisions will be given over the phone.

Applications for new students to UIC may be obtained by calling the Office of Admissions and Records at (312) 996-7690. *Students currently enrolled in another college at UIC should contact the College of Nursing at (312) 996-6045.*

For further information about admission requirements, contact:

The University of Illinois at Chicago  
College of Nursing (M/C 802)  
Office of Academic Programs, 2nd Floor  
845 South Damen Avenue  
Chicago, Illinois 60612-7350  
Phone: Chicago (312) 996-6045  
Phone: Quad Cities (309) 788-0844  
Phone: Urbana-Champaign (217) 333-3507

### Academic Advising

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.

## Graduation Requirements

*Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.*

To earn the degree of Bachelor of Science in Nursing, the student is responsible for fulfilling the graduation 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 graduation requirements stated in this catalog and to keep up to date with published changes. If requirements are changed, 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 re-enrollment. If courses originally required are no longer offered, the college has the prerogative of specifying substitutes.

The college retains the right to change educational policy and graduation requirements at any time. This may affect currently enrolled students' standing.

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 3.00 (A=5.00).

### Curriculum in Nursing

The College of Nursing's undergraduate program leads to the Bachelor of Science in Nursing, which requires a minimum of 120 semester hours.

### Required Outside of the College of Nursing

	Hours
English Composition I	3
English Composition II	3
General Microbiology	3
General College Chemistry	5
Organic Chemistry	5
Human Anatomy and Physiology I	4
Human Anatomy and Physiology II	4
Social Sciences selectives <sup>a</sup>	6
<i>Chosen from two different areas.</i>	
Humanities selectives <sup>a</sup>	6
<i>Chosen from two different areas.</i>	
Human Growth and Development Through the Life Span	3
Nutrition	3
Cultural Diversity course	3
LAS electives	9
<i>At least one elective must be a natural sciences course other than chemistry. At least one elective must be a 3 semester-hour upper division course in Natural Sciences, Humanities, or Social Sciences (anatomy and physiology and microbiology do not fulfill this requirement).</i>	

### Total Hours

**57**

<sup>a</sup> Courses to meet the requirements in these areas must be chosen from those listed in the LAS section titled Course Distribution Requirements. All students must take one course in Cultural Diversity. This requirement may be met by selecting a Social Sciences or Humanities CDC course that also fulfills the Cultural Diversity requirement as indicated on the Cultural Diversity List in the College of Liberal Arts and Sciences.

## Required in the College of Nursing

	Hours
NuSc 202 —Concepts and Processes of Professional Nursing <sup>a</sup>	3
NuSc 210 —Health Assessment	3
NuSc 215 —Pathophysiology and Applied Pharmacology I <sup>a</sup>	4
NuSc 217 —Pathophysiology and Applied Pharmacology II <sup>a</sup>	3
NuSc 225 —Introduction to Clinical Concepts and Processes <sup>a</sup>	6
NuSc 242 —Concepts and Processes for Contemporary Nursing Practice <sup>b</sup>	4
<i>NuSc 242 required of RN/BSN students only.</i>	
NuSc 322 —Introduction to Nursing Research and Statistics for Evidence-Based Practice	4
NuSc 335 —Clinical Concepts and Processes in Adult Health <sup>a</sup>	6
NuSc 345 —Clinical Concepts and Processes in Women's and Family Health <sup>a</sup>	5
NuSc 355 —Clinical Concepts and Processes in Children's and Family Health <sup>a</sup>	5
NuSc 365 —Clinical Concepts and Processes in Mental Health <sup>a</sup>	5
NuSc 375 —Concepts and Processes in Older Adult Health <sup>c</sup>	3
NuSc 385 —Clinical Concepts and Processes in Population-Focused Nursing	5
NuSc 390 —Nursing Leadership and Management in Health Care	6
NuSc 397 —Issues in Nursing Practice	3
<b>Total Hours</b>	<b>61</b>

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

<sup>b</sup> RN/BSN Curriculum: The NLN Mobility II Profile examinations or articulation will validate only five semester hours of NuSc 225. The other one 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.**

<sup>c</sup> RN/BSN Curriculum: NuSc 375 is not required but can be taken to fulfill three semester hours of the nursing selective requirement.

## Nursing Electives/Selectives

	Hours
Minimum of two hours (5 hours for RN/BSN students) of nursing electives/selectives chosen from the following sample courses.	2-5
NuMC 353 —Nursing Dimensions of Human Sexuality (2)	
NuPH 400 —Introduction to Occupational Health Nursing (2)	
NuPH 402 —School Nursing Theory and Trends (3)	
NuPs 400 —Dynamics of Small Groups (2)	
NuSc 320 —Death and Dying (2)	
NuSc 394 —Special Topics in Nursing: Undergraduate (1-4)	
NuSc 399 —Independent Study: Undergraduate (1-4)	
NuSc 440 —Wholistic Health: Use of Self (2)	
NuSc 441 —Wholistic Health: Community Focus (2)	
NuSc 442 —Wholistic Health Care Systems (2)	
NuSc 450 —Women and Mental Health Nursing (3)	
NuSc 455 —Women's Health: A Primary Health Care Approach (3)	
<b>Total Hours</b>	<b>2-5</b>

## Representative Curriculum Pattern: Generic BSN Curriculum Plan — Fall Admission

### 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
<b>Total Hours</b>	<b>16</b>

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
<b>Total Hours</b>	<b>16-17</b>

### 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
<b>Total Hours</b>	<b>14-15</b>

Spring Semester	Hours
NuSc 365 or 385	5
NuSc 390 —Nursing Leadership and Management in Health Care	6
NuSc 397 —Issues in Nursing Practice	3
Nursing elective/selective	2
<b>Total Hours</b>	<b>16</b>

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.

## Representative Curriculum Pattern: RN/BSN Curriculum

	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/selective	3
<b>Total Hours</b>	<b>14 Hours</b>

NuSc 385 —Clinical Concepts and Processes in Population-Focused Nursing	5
NuSc 390 —Nursing Leadership and Management in Health Care	6
NuSc 397 —Issues in Nursing Practice	3
Nursing elective/selective	2
<b>Total Hours</b>	<b>16</b>

## Additional Graduation Requirements

In addition to completing the nursing course requirements, a student in the College of Nursing must also satisfy the requirements below.

### Hours Required for Graduation

To become eligible for the degree of Bachelor of Science in Nursing, the student must complete a minimum of 120 semester hours divided between 57 semester hours of liberal arts and sciences and 63 semester hours of nursing and must have a minimum grade point average of 3.00 (A=5.00).

### Residence Requirement

At a minimum, the last 30 semester hours of university work must be taken at the University of Illinois at Chicago.

### Graduation Declaration

One semester prior to graduation, students are required to meet with their academic adviser to review all graduation requirements. Students must file with the college their intent to graduate (using the current UIC form) by the tenth day of the term in which they plan to graduate. Students cannot be cleared



for graduation until they have filed the declaration and have their credentials reviewed.

## Academic Honors

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### 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 4.35 term grade point average with a program of 12 semester hours of letter grades in a semester.

### Graduation with College Honors

At graduation, students are awarded College Honors for academic distinction. Such honors are designated on the diplomas as Honors or High Honors. The minimum cumulative grade point average needed to qualify for College Honors is 4.35 (A=5.00) **in all course work**. High Honors are awarded to a student who earns at least a 4.75 cumulative grade point average. All transfer work accepted for the degree is included in the determination of grade point averages.

### 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.

### Scholarships and Financial Aid

The College of Nursing has been awarded money by private endowments and industry for students who demonstrate high academic achievement and/or financial need. Students apply for those funds in the College of Nursing. Other money from public and private sources is available through the Office of Student Financial Aid.

## College Policies, Rules, and Regulations

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### Study Load

To be considered full time, a student must be enrolled in a minimum of 12 semester hours fall and spring terms, and 6 semester hours in the summer term. During the regular academic year, a course load exceeding 18 semester hours (9 in the summer) must be approved in the College Office of Academic Programs.

### Change of Program

Program changes may be made during certain periods of registration. Courses may be added and sections changed through the last day of instruction during the second week of the fall and spring terms or through the last day of instruction during the first week of the summer term; nursing courses may be dropped during the same time frame. Non-nursing courses may be dropped through the last day of instruction during the sixth week of the fall and spring terms or through the last day of instruction during the fifth week of the summer term with the exception of the Colleges of Business Administration, Engineering and

Liberal Arts and Sciences, whose course drop dates are the same as the College of Nursing.

### 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 dropped 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.

### Probation and Drop Rules

#### Probation Rules

A cumulative grade point average is calculated. When the nursing or cumulative grade point average is below 3.00 (A=5.00), 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 3.00 in nursing, non-nursing, 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 3.00; 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 3.00.

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.

#### Drop Rules

1. A student on academic probation *will be dropped* 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 3.00.
2. A student on academic probation *will be dropped* 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 3.00.
3. A student who fails to make progress toward a degree *may be dropped*. (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 dropped from the college, withdrawn for academic failure.

## **Special Programs and Opportunities**

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### **Urban Health Program**

The Urban Health Program of the College of Nursing provides recruitment and retention programs under the guidance of a specially trained Urban Health counselor. The recruitment program is designed to increase the number of minority graduates in nursing who will contribute to improving health care services in Chicago's underserved communities. The retention program provides minority nursing students with academic advisement, individual and group tutorial services, as well as a referral network to appropriate University support services.

### **Honors Program**

Student members of the Honors College are undergraduates selected from all UIC colleges and departments on the basis of their academic achievement.

Transfer students with at least a 4.25 cumulative grade point average (A=5.00) are encouraged to apply. Other entering students who do not meet these criteria may apply directly to the dean of the Honors College for special admission consideration.

Each nursing student has an Honors Fellow (faculty) in the College of Nursing who also serves as his/her academic adviser. An honors activity must be completed each semester (except summer). Activities include seminar classes, honors core, volunteer and research activities, and honors options in nursing courses.

# Nursing Courses

## Maternal-Child Nursing (NuMC)

- 353 Nursing Dimensions of Human Sexuality. 2 Hours.** Human sexuality across life cycle; exploration of physiological, psychological, and social cultural factors influencing sexuality; and health/illness behaviors. Prerequisite: NuSc 225 or 242.

## Medical-Surgical Nursing (NuMS)

- 350 History of Nursing. 2 Hours.** Trends in nursing education and practice in terms of historical development of nursing. Focus on social, cultural, religious, political, and educational forces influencing the evolution of nursing. Prerequisite: Completion of Level II courses.

## Nursing Sciences (NuSc)

- 202 Concepts and Processes of Professional Nursing. 3 Hours.** Introduction to the history and framework of nursing practice. Emphasis on basic curricular concepts and processes of professional nursing. Prerequisites: Junior standing or above and consent of the instructor.
- 210 Health Assessment. 3 Hours.** Introduction to assessment of physical and psychosocial health across the lifespan. Includes physical assessment techniques, interviewing skills and introduction to medical terminology and health risk assessment. Prerequisites: Credit or concurrent registration in NUSC 202 or NUSC 242; and junior standing or above and consent of the instructor.
- 215 Pathophysiology and Applied Pharmacology I. 4 Hours.** Presents clinical pathophysiological mechanisms across the lifespan integrating pharmacological principles and therapies required for nursing practice. Provides learning strategies for this content. Prerequisites: Chem 130 and Kine 252.
- 217 Pathophysiology and Applied Pharmacology II. 3 Hours.** Presents clinical pathophysiological mechanisms across the lifespan integrating pharmacological principles and therapies required for nursing practice. Provides learning strategies for this content. Prerequisite: NuSc 215 or consent of the instructor.
- 225 Introduction to Clinical Concepts and Processes. 6 Hours.** Applies nursing concepts, communication and teaching/learning to individuals. Includes mobility, comfort, safety, infection, protection, fatigue, sleep, oxygenation, and elimination. Clinical application in various settings. Prerequisites: A general microbiology course, credit or concurrent registration in NuSc 210 and in NuSc 215 and consent of the instructor.
- 242 Concepts and Processes for Contemporary Nursing Practice. 4 Hours.** Introduces RN/BSN student to contemporary concepts for professional nursing practice in health care systems with emphasis on the nursing paradigm, health promotion and continuity of care. Prerequisite: Credit or concurrent registration in NuSc 210.
- 250 Human Development Across the Life Span. 3 Hours.** 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.

- 320 Death and Dying. 2 Hours.** 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.
- 322 Introduction to Nursing Research and Statistics for Evidence-Based Practice. 4 Hours.** Previously listed as Nursing Sciences 222. 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: NUSC 217 and NUSC 225.
- 335 Clinical Concepts and Processes in Adult Health. 6 Hours.** 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. Prerequisites: NUSC 225 and credit or concurrent registration in NUSC 217; and consent of the instructor.
- 345 Clinical Concepts and Processes in Women's and Family Health. 5 Hours.** Nursing care of women and families across the lifespan. Emphasizes health promotion from a community-based perspective. Socio-economic, cultural, political, legal and ethical influences on health behavior and outcomes are explored. Prerequisite: NUSC 225 and credit or concurrent registration in NUSC 217; or consent of the instructor.
- 355 Clinical Concepts and Processes in Children's and Family Health. 5 Hours.** Nursing care of the well, acutely and chronically ill infant and child using a family-focused approach with clinical application in various settings. Prerequisite: NUSC 225 and credit or concurrent registration in NUSC 217; or consent of the instructor.
- 365 Clinical Concepts and Processes in Mental Health. 5 Hours.** 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. Prerequisites: NUSC 225 and credit or concurrent registration in NUSC 217; and consent of the instructor.
- 375 Concepts and Processes in Older Adult Health. 3 Hours.** Application of concepts of gerontology, aging theories and care of the older adult, including health promotion and maintenance and rehabilitation. Prerequisites: NUSC 225 and consent of the instructor.
- 385 Clinical Concepts and Processes in Population-Focused Nursing. 5 Hours.** 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 lifespan. Prerequisites: NuSc 345 and NuSc 355 and consent of the instructor.

- 390 Nursing Leadership and Management in Healthcare. 6 Hours.** 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: NUSC 335 and NUSC 345 and NUSC 355 and credit or concurrent registration in NUSC 365 and credit or concurrent registration in NUSC 385.
- 393 Readings in Evidence-Based Practice. 3 Hours.** 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. Prerequisites: NUSC 322 and senior standing or above.
- 394 Special Topics: Undergraduate. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Discusses selected topics of current interest. Offered according to sufficient student demand and instructor availability. Prerequisites: Completion of Level II courses and consent of the instructor.
- 397 Issues in Nursing Practice. 3 Hours.** Analysis of social, economic, and policy issues affecting the practice of professional nursing with emphasis on strategies for advancing the profession. Prerequisite: Credit or concurrent registration in NuSc 390 or consent of the instructor.
- 399 Independent Study: Undergraduate. 1 to 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Individually arranged study of a topic selected by the student under the guidance of an individual instructor. Prerequisites: Completion of Level II courses and consent of the instructor.
- 440 Wholistic Health: Use of Self. 2 Hours.** Spiritual assessment of self, individuals and families. Self as a therapeutic agent/health provider for wholistic health care. Prerequisite: Graduate standing; or senior standing and consent of the instructor.
- 441 Wholistic Health: Community Focus. 2 Hours.** Community and congregational assessment. Faith community as a place of healing self and providing wholistic health care as a member of a multidisciplinary team. Prerequisite: Graduate standing; or senior standing and consent of the instructor.
- 442 Wholistic Health Care Systems. 2 Hours.** Integration of health and faith to influence and change for wholistic health care systems using negotiation, community development, coalitions, and advocacy at local, regional, national, international levels. Prerequisite: Graduate standing; or senior standing and consent of the instructor.
- 450 Women and Mental Health Nursing. 3 Hours.** Same as Gender and Women's Studies 450 and Women's Health Nursing 450. Previously listed as Psychiatric Nursing 450. Theories of female psychology; women's daily lives and mental health; gender differences in mental illness; strategies for improving women's mental health. Prerequisite: 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 315.

**455 Women's Health: A Primary Health Care Approach. 3 Hours.** Same as Community Health Sciences 456 and Women's Health Nursing 455. Previously listed as Public Health Nursing 455. Health promotion and disease prevention in women's health. Includes community experience with community women. Primary health care approaches examined. Prerequisite: Consent of the instructor.

**460 Individualized Internship. 1 to 5 Hours.** May be repeated for credit. Intensive internship experience will consist of a practicum that will develop skills, competencies and knowledge in a focused health care delivery setting. Prerequisite: Consent of the instructor.

## **Psychiatric Nursing (NuPs)**

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**400 Group Dynamics, Behavior and Intervention. 2 to 3 Hours.** Master of Science degree-seeking students in the Mental Health Nursing Concentration must register for 3 hours of credit. Concepts, theories, and research pertaining to group dynamics and to interventions carried out in groups. Analysis of videotaped group experience. Prerequisite: Graduate standing or consent of the instructor.

## **Public Health Nursing (NuPH)**

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**400 Introduction to Occupational Health Nursing. 2 Hours.** Theoretical bases for application of public health nursing practice to working population in occupational settings. Prerequisite: Consent of the instructor.



# College of Pharmacy Contents

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# College of Pharmacy

**833 South Wood Street**

**Dean of the College:** Rosalie Segraves.

**Associate Dean for Academic Affairs:** Janet P. Engle.

**Assistant Dean for Academic Affairs:** Susan L. Peverly.

**Associate Dean for Student Affairs:** Thomas Tenhove III.

**Assistant Deans for Student Affairs:** Debra Agard, Jean M.B. Woodward.

**Associate Dean for Business Development and Philanthropy:** James Bono.

**Acting Associate Dean for Research:** William T. Beck.

**Acting Associate Dean for Graduate Education:** Robert E. Gaensslen.

**Head, Department of Biopharmaceutical Sciences:** William T. Beck.

**Acting Head, Department of Medicinal Chemistry and Pharmacognosy:** Harry Hs Fong.

**Head, Department of Pharmacy Administration:** Nicholas G. Popovich.

**Head, Department of Pharmacy Practice:** Jerry L. Bauman.

**(312) 996-7242**

The oldest of the 14 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, multiple-media lecture halls and auditorium, research, teaching, and dispensing laboratories. A learning resources center including computer terminals is housed in the college. A lounge and locker space for student use are available.

In addition to its educational activities, the College of Pharmacy provides clinical and distributive services to patients seeking care at the University of Illinois Hospital 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

The College of Pharmacy offers the final four years of a six-year program leading to the Doctor of Pharmacy (Pharm.D.) degree. The prospective applicant is advised to contact the Office of Student Affairs at the College of Pharmacy for further information.

### Accreditation

University of Illinois at Chicago's Doctor of Pharmacy program is accredited by the American Council on Pharmaceutical Education, 20 N. Clark St, Suite 2500, Chicago, Illinois 60602, (312) 664-3575, (800) 533-3606; fax (312) 644-4652

### Admission Requirements

New students may begin *only* in August each year.

### High School Requirements

Biology, chemistry, mathematics, and physics are the foundations for courses at the College of Pharmacy. Humanities, social studies, and communications 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.

### New Students

Applicants to the college must, by the time they begin study, have completed two years of prepharmacy course work. Courses may be taken at the University's College of Liberal Arts and Sciences (see *Requirements for Preprofessional Curricula*) or at

any accredited college or university and must include at least the following:

<b>Prepharmacy Requirements</b>	<b>Semester Hours</b>	<b>Quarter Hours</b>
Written Communication	6	9
Speech 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
<b>General Education*</b>		
Social or Behavioral Sciences	3	4
Economics	3	4
Humanities	3	4
Electives	0-4	0-9
<b>Total Prepharmacy Coursework</b>	<b>60</b>	<b>90</b>

\*One of these courses must meet the UIC Cultural Diversity Requirement (see elsewhere in this catalog for details).

Minimum cumulative, science and prepharmacy grade point averages of 3.0 (A= 5.00) are required.

Applicants should comply with the following procedures.

1. Apply for and take the Pharmacy College Admission Test (PCAT) in the October prior to or the January of the year they wish to enter. The test application deadline is approximately one month before the test date. It is crucial that students know the deadline and abide by it. PCAT application forms are available from the Psychological Corporation, PSE Customer Relations-PCAT, 19500 Bulverde Rd, San

Antonio, Texas 78259 or 1-800-622-3231 or <http://www.hbtpc.com/pse/g-conts.htm> or from the Office of Student Affairs, College of Pharmacy, Room 154 PHARM.

2. Apply to the college. Application forms become available after June 1 of the year prior to matriculation, and may be obtained from the Office of Student Affairs, College of Pharmacy. Completed applications plus all required supporting documents must be received, with the application fee, by February 1 of the year the applicant wishes to enter.

### **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 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.

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.

### **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. Admitted students will study prepharmacy courses at UIC and maintain membership in the Honors College. To obtain an application and more information, contact the Office of Admission and Records, (312) 413-7628.

### **Admission Policies**

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 competitive. Admission criteria include demonstrated academic ability in prepharmacy 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 the state of Illinois. A conscious effort is made to select students to ensure a broad geographical distribution throughout the state of Illinois. The college seeks to admit applicants who can reasonably be expected to become educated graduates able to assume responsible positions in the health care profession and be

leaders in civic and public affairs. Positive actions shall be taken to insure, 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 their return.

Applicants accepted for admission who fail to enroll and who wish to enter in a subsequent year must reapply for admission 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 the Office of Student Affairs, College of Pharmacy.

If selected for admission to the Doctor of Pharmacy program at the University of Illinois at Chicago, the student will sign a document which indicates a willingness to comply with the following when classes begin in August:

1. To show record of immunizations including inoculation against hepatitis-B;
2. To have a valid pharmacy technician license; and
3. To be prepared to provide own transportation to off-campus clerkship sites.

### **Academic Advising and Grading Policies**

All students are assigned academic advisers from the faculty and staff of the college. The professional staff of the Office of Student Affairs is available for referrals and assistance. Students or their advisers may request reassignment at any time.

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 Office of Disability Services (ODS). The college will make accommodations on a case by case basis with advice from the ODS. Students with disabilities who require accommodations for full access and participation must be registered with the Office of Disability Services.

All entry-level Pharm.D. students enrolled in the College of Pharmacy must have a valid Illinois Pharmacy Technician License. Any student who does not have a valid Pharmacy Technician License may be refused further registration in the program and will not be eligible to take any course with an experiential component.

In the event that a required course is failed, it must be successfully completed in subsequent registration of 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 clerkship courses may be taken a maximum of two times.

An "Incomplete" (IN) grade must be removed within 12 months of the end of the term in which the IN was received or prior to the start of senior clerkships, 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 "E" for the final grade. The Office of Student Affairs will notify instructors when the 12-month time limit (or the start of senior clerkships) has occurred.

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 P2 class standing, all required core courses in the P1 year must have been taken and the student must have received a passing grade in those courses. In order to achieve P3 class standing, all required core courses in the P2 year

must have been taken and the student must have received a passing grade in those courses.

## Scheduling of Programs

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 a.m. and 5:30 p.m. However, a few campuswide elective offerings are taught in the early evening. Clinical and other experiential 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.

## Doctor of Pharmacy Curricular Outline

### 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 341 —Roles, Environments, and Communications	4
Electives <sup>a</sup>	0-1

**Total Hours** **17-18**

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	1
Electives <sup>a</sup>	0-2

**Total Hours** **16-18**

### 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	2
Electives <sup>a</sup>	0-1

**Total Hours** **16-17**

Spring Semester	Hours
Phar 324 —Contemporary Pharmacy Practice	3
Phar 343 —Pharmacy Systems Management	2
Phar 355 —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 <sup>a</sup>	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 345 —Pharmacy Law	3
Phar 353 —Experiential III	2
Electives <sup>a</sup>	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	2
Phar 365 —Non-Prescription Pharmaceuticals and Herbal Medicinals	3
Phar 356 —Principles of Pharmacoeconomics and Drug Treatment Outcomes	2
Electives <sup>a</sup>	2-4

**Total Hours** **16-18**

### THIRD YEAR

Senior Clerkships <sup>b</sup>	Hours
	28

**Total Hours** **28**

<sup>a</sup> Students are required to take a total of 12 semester hours of didactic electives during the P-1 to P-3 years.

<sup>b</sup> Students must provide transportation to and from clerkships. Some clerkships may not be in the Chicago area or accessible by public transportation.

Summary of Pharm.D. Hours	
Total core hours (excluding clerkships)	86
Total professional elective hours	12
Total clerkship/experiential hours	35
<b>Total Required for Pharm.D.</b>	<b>133</b>

## College Policies, Rules, and Regulations

### Graduation Requirements

Effective with Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00=A.

To qualify as a candidate for graduation, a student must be of good moral character, pass all required courses in the curriculum, earn a cumulative grade point average of 3.00 (A=5.00), pay all indebtedness to the University, and be certified by the faculty of the College of Pharmacy. Academic policies related to the College of Pharmacy curriculum may be obtained from the Office of Student Affairs.

A minimum of three years in residence as a full-time student in a college or school of pharmacy is required to receive the Pharm.D. degree from the University of Illinois at Chicago.

### Probation

A student failing to obtain either a semester grade point average (SGPA) or a cumulative grade point average (CGPA) of at least 3.00 (A=5.00) 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 3.00.

### **Clerkship Registration Requirements**

All students are considered eligible to begin the fourth-year clerkship sequence when they satisfy requirements for 105 credit hours with a University of Illinois at Chicago cumulative grade point average of 3.00 (A=5.00) or higher. In addition, all students are required to satisfactorily complete, with a grade point average of 3.00 or better, all core courses before entering clerkship. If a student has a cumulative grade point average below 3.00, the student will be required to repeat selected core courses, as determined by the Academic Standing Committee, for which a grade of "D" was received. In addition, the Academic Standing Committee also may require that the student repeat elective courses offered by the college for which a grade of "D" was received. The student must receive sufficiently high grades in these courses to obtain a cumulative grade point average of 3.00 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.

### **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 below a 3.00(A=5.00) CGPA for courses completed at the University of Illinois at Chicago.
2. A student receives a grade of E in one-half or more credit hours attempted during any semester.
3. A student continuing on probation receives a semester grade point average below 3.00.
4. A student remains on probation for two consecutive semesters and fails to remove himself or herself from probation status after the second semester.
5. A student receives a significant number of grades of "D" or "E" in courses attempted during any semester.
6. If a student does not obtain a passing grade after taking core courses or required clerkship courses twice.
7. Any student who does not have and maintain a valid Pharmacy Technician License may be refused further registration in the program and will not be eligible to take any course with an experiential component.

### **Readmission by Petition**

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 dropped because of poor scholarship are no guarantee of admission. Except in unusual circumstances, students will be readmitted only once.

## **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.

## **Academic Honors**

### **Dean's List**

The Dean's List 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 4.50 (A= 5.00).

### **Graduation with Honors and High Honors**

Students who have maintained a grade point average at the college of 4.35 while satisfying the requirements for graduation may be recommended by the University Senate for graduation with honors. Students who have maintained a grade point average at the college of 4.75 while satisfying the requirements for graduation may be recommended by the University Senate for graduation with high honors. The recipients of these awards are recognized at the commencement exercises and their honors duly noted on their diplomas.

## **Student Organizations**

Pharmacy students have a variety of student organizations available to them, ranging from professional and fraternal societies and professional organizations to student government. Involvement in student organizations can enhance the learning experience at the College of Pharmacy and aid in the development of valuable leadership skills. Several professional organizations are represented at the college: *Academy of Students of Pharmacy*, the student organization of the American Pharmaceutical Association; the *Asian Pharmacy Association*; the *Association of Indian Pharmacists in America*; the *Christian Pharmacists Fellowship International*; the *Community Drug Education Committee (CDEC)*, the student outreach organization; the student chapter of the *Illinois Council of Health-System Pharmacists (ICHSP)*; and the *Student National Pharmaceutical Association*, an organization for minority students in pharmacy seeking to promote self-reliance, self-awareness, and excellence in pharmacy practice.

A number of honorary organizations are represented in the College of Pharmacy: Phi Lambda Sigma, Phi Kappa Phi, and the Phi Chapter of Rho Chi.

The college's four fraternal organizations are both professional and social; they promote the development of the health sciences and the profession of pharmacy, as well as sponsor various social events. They are: 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 faculty committees.

# Pharmacy Courses

## Biopharmaceutical Sciences (BPS)

*Note: New rubric is effective Fall 2002. Courses listed under this rubric were previously listed under Pharmaceutics (PMPC) and Pharmacodynamics (PMPD).*

- 325 Drugs and Society. 2 Hours.** Same as Pharmacy Practice 325. Previously listed as PMPD 325. Extensive computer use required. Presents factual basis of drug use and abuse. Provides physiological and socio-psychological underpinnings of drug abuse. Evaluates social policies and regulatory issues surrounding drug abuse. Prerequisite: First year standing in the Doctor of Pharmacy program.
- 360 Survey of Basic and Clinical Pharmacology I. 1 Hour.** This course is designed to provide the students an introduction to the major classes of therapeutic agents. Prerequisite: Consent of the instructor. Open only to first year students in the Doctor of Pharmacy program.
- 365 Survey of Receptors and Drug Action. 1 Hour.** Previously listed as PMPD 365. The major classes of receptors and their ligands (agonists and antagonists) that result in pharmacological effects and drug action. Prerequisite: Open only to first year students in the Doctor of Pharmacy program.
- 380 Undergraduate Research in Biopharmaceutical Sciences. 1 to 3 Hours.** Previously listed as PMPC 380 and PMPD 380. May be repeated for a maximum of 6 hours of credit per department. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. Investigation, under the direction of one or more faculty members, of a problem of limited scope. Prerequisites: Minimum cumulative grade point average of 3.50 and consent of the instructor, department head, and Associate Dean for Student Affairs.
- 385 Special Topics of Current Interest in Biopharmaceutical Sciences. 1 to 3 Hours.** Previously listed as PMPC 385 and PMPD 385. Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for one offering only. Prerequisites: Consent of the instructor and good academic standing as defined by College of Pharmacy policies.
- 390 Special Projects in Biopharmaceutical Sciences. 1 to 2 Hours.** Previously listed as PMPC 390 and PMPD 390. May be repeated for a maximum of 4 hours of credit in all departments. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. Students may register for more than one section per term. Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. Prerequisites: Consent of the instructor, department head, and Associate Dean for Student Affairs.
- 423 Adverse Drug Reactions. 2 Hours.** Previously listed as PMPD 423. 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. Prerequisites: Phar 403 and Phar 404 or consent of the instructor.

- 470 Clinical Pharmacology I. 1 Hour.** Previously listed as PMPD 470. 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: Third year professional standing in the Doctor of Pharmacy program or graduate standing.
- 471 Clinical Pharmacology II. 1 Hour.** Previously listed as PMPD 471. Basic principles of clinical pharmacology applied to critical analysis of patient case histories in major disease states and FDA requirements. Prerequisite: BPS 470.
- 480 Application of Science to the Law. 4 Hours.** Same as Criminal Justice 480. Previously listed as PMPD 480. 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. Prerequisite: CrJ 210 and CrJ 260 or graduate standing.

## Medicinal Chemistry and Pharmacognosy (PmMP)

- 365 Contemporary Pharmacognosy. 2 Hours.** Importance of plants in American Health Care and as a potential source of new drugs.
- 380 Undergraduate Research in Medicinal Chemistry and Pharmacognosy. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit per department. A total of not more than 8 hours of 380 and 390 courses may be counted toward the 12 hours of professional electives. 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. Prerequisites: Minimum grade point average of 3.50 and consent of the instructor, department head, and the Associate Dean for Student Affairs.
- 385 Special Topics in Medicinal Chemistry and Pharmacognosy. 1 to 3 Hours.** Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for one offering only. Prerequisites: Good academic standing and consent of the instructor.
- 390 Special Projects in Medicinal Chemistry and Pharmacognosy. 1 to 2 Hours.** May be repeated for a total of 4 hours of credit in all departments. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. Prerequisites: Consent of the instructor, department head, and Associate Dean for Student Affairs.
- 395 Biophysical Chemistry of Water. 1 Hour.** The properties of water, its fundamental structure, behavior as a solvent, and importance in biological systems. Prerequisites: PhyB 301 or consent of the instructor. Good academic standing is required.

- 412 Pharmaceutical Applications of Genomics and Bioinformatics. 2 Hours.** Same as Medicinal Chemistry 412. 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. Prerequisites: PHAR 332; or consent of the instructor.
- 460 Organic Medicinal Chemistry I. 3 Hours.** Same as Medicinal Chemistry 460. Organic reactions are discussed in terms of their mechanisms and utility in the field of medicinal chemistry, particularly in the synthesis of medicinal agents. Prerequisite: One year of organic chemistry with laboratory.

## Pharmacy (Phar)

- 321 Drug Delivery Systems I. 3 Hours.** The roles of dosage forms and drug delivery systems in health care. Pharmaceutical calculations included. Prerequisite: Acceptance into the Doctor of Pharmacy program.
- 322 Drug Delivery Systems II. 3 Hours.** Continuation of Pharmacy 321. The roles of additional dosage forms and drug delivery systems in health care. Prerequisite: Phar 321.
- 323 Drug Delivery Systems III. 3 Hours.** The role of non-sterile and sterile dosage forms and drug delivery systems in health care. Pharmaceutical calculations for parenteral dosage forms included. Prerequisite: Phar 322.
- 324 Contemporary Pharmacy Practice. 3 Hours.** Students obtain experience in compounding dosage forms, dispensing medications, counseling patients, problem solving and administration of various dosage forms. Prerequisites: Phar 323 and credit or concurrent registration in Phar 355.
- 331 Fundamentals of Drug Action I. 5 Hours.** Introduction to basic concepts of drug chemistry and biological targets. Chemistry of simple bimolecules, redox chemistry, stereochemistry. Biology of nucleic acids, proteins, and membranes. Prerequisites: One year of organic chemistry with laboratory and one year of general biology with laboratory.
- 332 Fundamentals of Drug Action II. 4 Hours.** Continuation of Pharmacy 331. Includes drug-receptor interactions, drug design, mechanistic enzymology, cellular chemistry and immunology. Prerequisite: Phar 331.
- 333 Fundamentals of Drug Action III. 4 Hours.** Continuation of Pharmacy 332. Topics of microbiology and virology, drug metabolism, chemical toxicology, basic clinical chemistry with laboratories. Prerequisite: Phar 332.
- 341 Roles, Environments, and Communications. 4 Hours.** 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. Prerequisites: Acceptance into the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 342 Experiential I. 1 Hour.** Introduction to technical aspects of pharmacist's dispensing role, emphasizing the basic aspects of filling a prescription or medication order in acute care and ambulatory care settings. Prerequisites: Phar 341 and a current pharmacy technician license in good standing.

- 343 Pharmacy Systems Management. 2 Hours.** 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: Second year standing in the Doctor of Pharmacy program.
- 344 Social and Behavioral Pharmacy. 2 Hours.** Application of behavioral science principles and theories in understanding patient and health professional behavior, and application of social issues involved in pharmacy practice. Prerequisite: Acceptance into the Doctor of Pharmacy program.
- 345 Pharmacy Law. 3 Hours.** Federal and state statutes and regulations pertaining to the credentialing of pharmacists, the practice of pharmacy, and distribution of drugs. Case law relating to the pharmacists' standard of care. Prerequisite: Phar 342.
- 346 Pharmacy Services and Reimbursement. 2 Hours.** Techniques in marketing of pharmaceutical care services and developing compensating mechanisms for pharmacy services, discussion of managed care principles, and health care financing issues. Prerequisite: Phar 341.
- 352 Experiential II. 2 Hours.** Introduction to physical assessment techniques used to monitor drug therapy. Development of skills required to gather, evaluate, and document information relevant to therapeutic interventions. Prerequisites: Phar 342 and PhyB 301 and PhyB 302 and a current pharmacy technician license in good standing.
- 353 Experiential III. 2 Hours.** Continuation of physical assessment techniques used to monitor drug therapy in regular and special populations. Development of skills required to gather, evaluate, document, and communicate information relevant to therapeutic interventions. Prerequisites: Phar 352 and a current pharmacy technician license in good standing.
- 354 Experiential IV. 2 Hours.** Development of skills required to gather, evaluate, document and communicate information relevant to therapeutic interventions. Development of presentation skills. Introduction to management and research projects in a pharmacy practice setting. Prerequisites: Phar 353 and a current pharmacy technician license in good standing.
- 355 Drug Information and Statistics. 4 Hours.** 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: Phar 341.
- 356 Principles of Pharmacoeconomics and Drug Treatment Outcomes. 2 Hours.** Basic and applied concepts of pharmacoeconomics, pharmacoepidemiology and utilization of drug therapy outcome measures are presented with an emphasis on the practical application of such principles. Prerequisite: Acceptance into the Doctor of Pharmacy program.
- 365 Non-Prescription Pharmaceuticals and Herbal Medicinals. 3 Hours.** 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: Third year professional standing in the Doctor of Pharmacy program or consent of the instructor.
- 371 Ambulatory Care Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in ambulatory care patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 372 Community Practice Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in community practice. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 373 Hospital Practice Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in hospital practice. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 374 Medicine Clerkship. 4 Hours.** 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. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 400 Pharmacokinetics. 3 Hours.** Concepts and principles in pharmacokinetics including theories and basis for drug receptor actions, drug absorption, distribution, excretion and biotransformation. Prerequisites: Credit or concurrent registration in Phar 322 and 332; and PhyB 302.
- 401 Principles of Drug Action and Therapeutics I. 3 Hours.** 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. Prerequisites: Second year standing in the Doctor of Pharmacy program, PhyB 302, Phar 342 and Phar 400.
- 402 Principles of Drug Action and Therapeutics II. 4 Hours.** Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics and toxicology in the areas of the autonomic nervous system, cardiology, lipid disorders and hypertension. Prerequisites: Second year standing in the Doctor of Pharmacy program, PhyB 302, Phar 342, and Phar 400.
- 403 Principles of Drug Action and Therapeutics III. 3 Hours.** Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of pain management and psychiatric disorders. Prerequisites: Second year standing in the Doctor of Pharmacy program and Phar 352 and Phar 401 and Phar 402; or consent of the instructor.
- 404 Principles of Drug Action and Therapeutics IV. 3 Hours.** Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics, and toxicology in the areas of women's and men's health, respiratory disorders, diabetes and pediatrics. Prerequisites: Second year standing in the Doctor of Pharmacy program and Phar 352 and Phar 401 and Phar 402; or consent of the instructor.
- 405 Principles of Drug Action and Therapeutics V. 3 Hours.** Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics and toxicology in the areas of drug abuse, cerebrovascular diseases, parkinson's and epilepsy. Prerequisites: Third year standing in the Doctor of Pharmacy program and Phar 353 and Phar 401 and Phar 402; or consent of the instructor.
- 406 Principles of Drug Action and Therapeutics VI. 3 Hours.** Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics and toxicology in the area of infectious diseases. Prerequisites: Third year standing in the Doctor of Pharmacy program and Phar 353 and Phar 401 and Phar 402; or consent of the instructor.
- 407 Principles of Drug Action and Therapeutics VII. 4 Hours.** 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. Prerequisites: Third year standing in the Doctor of Pharmacy program and Phar 353 and Phar 401 and Phar 402; or consent of the instructor.
- 408 Principles of Drug Action and Therapeutics VIII. 3 Hours.** Integration of medicinal chemistry, pharmacology, pharmacotherapeutics, pharmacokinetics and toxicology in the areas of bones and joints, hematological disorders, oncology. Prerequisites: Third year standing in the Doctor of Pharmacy program and Phar 353 and Phar 401 and Phar 402; or consent of the instructor.
- 460 Introduction to Health Informatics. 1 Hour.** Same as Biomedical and Health Information Sciences 460. 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. Credit is not given for Pharmacy 460 if the student has credit in Biomedical and Health Information Sciences 400 or Nursing Sciences 218 or Interdisciplinary Public Health 420. Introduction to information technology and systems in a healthcare setting; collection, analysis and management of healthcare data; storage, retrieval, and networking; system security. Prerequisite: Students should demonstrate basic computing skills including knowledge of an office productivity suite (MS Office or other), electronic mail, and Internet browsers. Credit in IDS 100 or the equivalent is recommended.
- 600 Drug Therapy Economics and Outcomes: Principles and Applications. 2 Hours.** Basics and applications of drug treatment outcomes and pharmacoeconomics concepts in pharmaceutical care. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy.



- 605 Advances in Pharmacy. 1 Hour.** Covers new advances in pharmacy with emphasis on pharmaceutical care applications. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy.
- 610 Biotechnology for Pharmacists. 2 Hours.** Introduction to recombinant DNA, monoclonal antibodies, and other aspects of biotechnology. Emphasizes applications to pharmacy. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy.
- 633 Pathophysiology. 3 Hours.** Emphasis on etiology, pathogenesis, and pathophysiology of diseases of the human organ systems. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy.
- 640 Clinical Pharmacokinetics. 2 Hours.** Applications of the concepts and techniques of pharmacokinetics to the rational design of individual dosage regimens in patients with various disease states which may affect the absorption and disposition of drugs. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy.
- 651 Pharmacotherapeutics I. 4 Hours.** Drug therapy of common disease states based on pathophysiology and concepts of drug action, emphasizing areas of electrolytes, nutrition, fluids, cardiology, nephrology, gastrointestinal, endocrine and pulmonary. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy and Phar 633.
- 652 Pharmacotherapeutics II. 4 Hours.** Drug therapy of common disease states based on pathophysiology and concepts of drug action, emphasizing areas of neurology, psychiatry, immunology and infectious diseases. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy and Phar 633.
- 653 Pharmacotherapeutics III. 3 Hours.** Drug therapy of common disease states based on pathophysiology and concepts of drug action, emphasizing areas of rheumatology, hematology, oncology, ophthalmology, dermatology, pediatrics, and geriatrics. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy and Phar 633.
- 655 Drug Information and Statistics. 2 Hours.** Overview of drug information resources and statistics used in health-care research, including systematic approaches for critical evaluation of the literature and effective communication of information. Prerequisite: B.S. degree in pharmacy from an accredited college of pharmacy.
- 656 Physical Assessment for Clinical Pharmacists. 1 Hour.** Satisfactory/Unsatisfactory grade only. A study of the basic physical assessment techniques necessary to determine patient response to drug therapy. Prerequisite: Phar 633.
- 660 Ambulatory Care Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in ambulatory care patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.

- 661 Medicine Clerkship. 4 Hours.** 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. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.

## Pharmacy Administration (PmAd)

- 380 Undergraduate Research in Pharmacy Administration. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit per department. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. 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. Prerequisites: Minimum cumulative grade point average of 3.50 and consent of the instructor, department head, and Associate Dean for Student Affairs.
- 385 Special Topics in Pharmacy Administration. 1 to 3 Hours.** A selected topic of current interest in pharmacy administration or an experimental course offered by faculty or a visiting lecturer. Prerequisites: Good standing and consent of the instructor.
- 390 Special Projects in Pharmacy Administration. 1 to 2 Hours.** May be repeated for a maximum of 4 hours of credit in all departments. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. Prerequisites: Consent of the instructor, department head, and Associate Dean for Student Affairs.
- 421 Pharmaceutical Marketing. 3 Hours.** Introduction to the field of marketing with specific emphasis on pharmaceuticals and the marketing of pharmacy services.
- 470 Managed Care Pharmacy. 3 Hours.** Professional development in managed care pharmacy to learn history, administrative and policy aspects, network with operational managers and leaders in the field, visit managed care sites and observe activities of managed care pharmacists. Prerequisite: Third year standing in the Doctor of Pharmacy program or second year standing in the Doctor of Pharmacy program with consent of the instructor.
- 482 Professional Practice Management. 3 Hours.** Managerial functions of the pharmacist in all practice environments with emphasis on the planning, organizing, staffing, directing, and controlling of resources.
- 494 Special Topics in Pharmacy Administration. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Topics will vary, including the on-going analysis of contemporary issues associated with delivery, financing and management of pharmaceutical products and professional services.

## Pharmacy Practice (PmPr)

- 325 Drugs and Society. 2 Hours.** Same as Pharmacodynamics 325. Extensive computer use required. Presents factual basis of drug use and abuse. Provides physiological and socio-psychological underpinnings of drug abuse. Evaluates social policies and regulatory issues surrounding drug abuse. Prerequisite: First year standing in the Doctor of Pharmacy program.
- 326 Topics for Professional Student Enrichment. 1 Hour.** 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: Phar 341 and graduate or professional standing.
- 345 Clinical Toxicology. 3 Hours.** 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: Enrollment in the Doctor of Pharmacy program.
- 359 Topics and Issues in Clinical Post-Graduate Training Programs. 2 Hours.** Field work required. Increases Pharm.D. students' knowledge and professionalization about post-graduate training. Students will "shadow" residents or fellows during non-class times, overnight and weekends while the resident or fellow is on call. Prerequisite: Second or third year Doctor of Pharmacy student in good academic standing.
- 360 Clinical Aspects of Drug Interactions, Metabolism and Pharmacogenetics. 2 Hours.** 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: Third year standing in the Doctor of Pharmacy program or above; or consent of the instructor.
- 370 Pharmacy Grand Rounds. 1 Hour.** May not be repeated for credit. Satisfactory/unsatisfactory grade only. Case studies in drug therapy; review of relevant areas of drug treatment and research. Role of the pharmacist emphasized. Weekly presentations. Mandatory attendance. Prerequisite: Enrollment in the Doctor of Pharmacy program.
- 375 Careers in Pharmacy. 2 Hours.** Designed to provide an introduction to innovative pharmacy careers through invited speakers. Identifies and discusses emerging opportunities for pharmacists in a variety of settings. Prerequisite: Enrollment in the Doctor of Pharmacy program.
- 377 Professional Development for Pharmacists. 1 Hour.** Designed to develop the skills necessary for the professional development of future pharmacists: resume writing, interview preparation, written correspondence, and verbal presentation skills. Prerequisite: Enrollment in the Doctor of Pharmacy program.



- 380 Undergraduate Research in Pharmacy Practice. 1 to 3 Hours.** May be elected for a maximum of 6 hours of credit per department. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. 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. Prerequisites: Minimum cumulative grade point average of 3.50 and consent of the instructor, department head, and Associate Dean for Student Affairs.
- 382 Ethical Considerations in the Practice of Pharmacy. 2 Hours.** 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. Prerequisites: Phar 404.
- 384 Advanced Ambulatory Care Clerkship. 4 Hours.** May be repeated for credit. Students may register for more than one section per term. 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. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 385 Special Topics of Current Interest in Pharmacy Practice. 1 to 3 Hours.** Course offered by faculty or a visiting lecturer on a selected topic of current interest. Available on an experimental basis for one offering only. Prerequisites: Good academic standing and consent of the instructor.
- 386 Administrative Clerkship. 4 Hours.** Clinical pharmacy experience in the management of a hospital pharmacy department including purchasing, personnel management, drug utilization review, committees, and accreditation approval process. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 387 Advanced Medicine Clerkship. 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in general medicine patients not covered in the core medicine clerkship. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 388 Advanced Specialty Clerkship. 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Clinical pharmacy experience in various specialty areas of practice including pharmaceutical industry, government, associations, or other health care specialties. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 389 Critical Care Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in critical care patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 390 Special Projects in Pharmacy Practice. 1 to 2 Hours.** May be repeated for a maximum of 4 hours of credit in all departments. A total of not more than 8 hours of 380 and 390 may be counted toward the 12 hours of professional electives. Special projects within the departmental discipline. Defined and terminal project goals are achieved through independent study. Prerequisites: Consent of the instructor, department head, and Associate Dean for Student Affairs.
- 391 Drug Information Clerkship. 4 Hours.** Clinical pharmacy experience in a drug information center providing written and verbal communication of drug information to health care professionals, patients, and the general public. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 392 Geriatric Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis placed on disease states and their treatment in geriatric patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 393 Kinetics Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, pharmacokinetic monitoring, and drug therapy. Emphasis will be placed on disease states and the pharmacokinetic monitoring of patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 394 Nutrition Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and nutrition therapy. Emphasis will be placed on disease states and their treatment requiring nutrition therapy. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 395 Pediatric Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in pediatric patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 396 Psychiatry Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in psychiatric patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 397 Surgery Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in surgical patients. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 398 Advanced Community Practice Clerkship. 4 Hours.** May be repeated for credit. Students may register for more than one section per term. 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. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 399 Home Health Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in home health care. Prerequisites: Fourth year standing in the Doctor of Pharmacy program and a current pharmacy technician license in good standing.
- 430 Critical Care I. 2 Hours.** Advanced pharmacotherapeutics course that will concentrate on the medical management and the pharmacist's role in the management of the critically ill patient. Prerequisites: Phar 402, 403, 404, 405 and 406 and concurrent registration in Phar 407 and 408 and completion of the second year of the program.
- 662 Advanced Medicine Clerkship. 4 Hours.** May be repeated for credit. Students may register for more than one section per term. 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. Prerequisite: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 663 Advanced Specialty Clerkship. 4 Hours.** May be repeated for credit. Students may register for more than one section per term. Clinical pharmacy experience in various specialty areas of practice including pharmaceutical industry, government, associations, or other health care specialties. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 664 Critical Care Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in critical care patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 665 Drug Information Clerkship. 4 Hours.** Clinical pharmacy experience in a drug information center providing written and verbal communication of drug information to health care professionals, patients, and the general public. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.

- 666 Geriatric Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in geriatric patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 667 Kinetics Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, pharmacokinetic monitoring, and drug therapy. Emphasis will be placed on disease states and the pharmacokinetic monitoring of patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 668 Nutrition Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and nutrition therapy. Emphasis will be placed on disease states and their treatment requiring nutrition therapy. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 669 Pediatric Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in pediatric patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 670 Psychiatry Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in psychiatric patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.
- 671 Surgery Clerkship. 4 Hours.** Clinical pharmacy experience in patient interviewing, patient monitoring, and drug therapy. Emphasis will be placed on disease states and their treatment in surgical patients. Prerequisites: Completion of all CCO didactic coursework; and a current pharmacy technician license in good standing or student must be a registered pharmacist in good standing.

## Physiology and Biophysics (PhyB)

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- 301 Human Physiology and Pathophysiology I. 5 Hours.** 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: Enrollment in the Doctor of Pharmacy program.
- 302 Human Physiology and Pathophysiology II. 5 Hours.** Continuation of Physiology and Biophysics 301. Physiology and pathophysiology of the blood, respiratory, endocrine, and reproductive systems. General pathology, mechanisms of disease. Prerequisites: PhyB 301 and enrollment in the Doctor of Pharmacy program.

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# Jane Addams College of Social Work

**Fourth Floor, Education, Communications, and Social Work Building (312) 996-7096**

**Dean:** Creasie Finney Hairston.

**Associate Dean:** Jerry R. Cates.

**Interim Director of BSW Program:** Barbara C. Coats.

**Interim Director of Field Instruction:** Olga Osby.

## The Profession of Social Work

Social work assists people in the prevention and resolution of social problems. It provides services to those who seek to resolve personal difficulties and it helps communities organize services to contribute to the well-being of all citizens. It plays a significant role in the planning and administration of human service programs and the development of public policy.

Qualified social workers are in demand in every area of professional practice. For example, they are needed to work with children and adults who are mentally ill, emotionally disturbed, delinquent, physically ill, mentally or physically challenged, or economically deprived. Social work is practiced in such settings as social welfare centers, psychiatric and general hospitals, service centers for the aged, and community-based agencies of various types.

The Jane Addams College of Social Work responds to the challenges facing urban America by preparing social work practitioners, scholars, and leaders with a firm grounding in public and private sector issues facing vulnerable populations. The mission of the Jane Addams College of Social Work is to educate professional social workers, develop knowledge, and provide leadership in the development and implementation of policies and services on behalf of the poor, the oppressed, racial and ethnic minorities, and other at-risk urban populations.

## Accreditation

The BSW and MSW degree programs are fully accredited by the Council on Social Work Education.

## Degree Programs

The Jane Addams College of Social Work offers the Bachelor of Social Work (BSW), the Master of Social Work (MSW), and the Doctor of Philosophy in Social Work (Ph.D.) degrees. The BSW program prepares students for entry-level, generalist social work practice.

## Bachelor of Social Work Program

The Bachelor of Social Work program of the Jane Addams College of Social Work is open to qualified students who have a liberal arts base and who are committed to developing professional skills in social work practice.

In the junior and senior years the BSW program is full time. The mission of this program is to prepare entry-level, generalist professional social workers who will practice social work, develop knowledge, and provide leadership in the development and implementation of policies and services on behalf of the poor, the oppressed, racial and ethnic minorities, and other at-risk urban populations.

Although social work builds upon theory from the behavioral and social sciences, it has its own knowledge base and well-developed practice skills and methods. The BSW program includes a broad liberal arts base, social work courses covering theory, practice skills and methods, policy, research, and a supervised field practicum.

## Admission Requirements

Students interested in the Bachelor of Social Work program must meet the admission requirements of the Jane Addams College of Social Work. A separate application is required for admission to the BSW program. Application forms can be obtained at the admissions office of the College of Social Work, 4355 Education, Communications, and Social Work Building. Students generally apply to the program during the sophomore year. Admission to the program is only for fall semester each year. Individual consideration is given to transfer students; however, all prerequisite courses for the BSW degree must be completed.

### Admission Requirements

1. Junior standing only (completion of 60 semester hours).
2. A grade point average of 3.50 (A=5.00).
3. A liberal arts base including course work listed below.

### Liberal Arts Courses

	Hours
English composition	6
Humanities	9
Human biology and any other natural science	10
Mathematics: mathematical reasoning	5
Social and behavioral science courses including American history (6 hours), sociology, and courses in at least two of the following areas: psychology, political science, anthropology, economics	21
SocW 100 —Contemporary Social Work	3
Electives to complete required total of 60 hours	6
<i>One course (3 hours) must be an approved Cultural Diversity course.</i>	

### Total Hours

**60**

The following materials should be included with the BSW application: applicant's statement of educational and professional goals (at least 500 words), college transcripts, and references from professors, employers, or supervisors of volunteer work. Reference forms are included in the application packet. Transcripts from colleges may be included in the application, or the applicant may request the respective college to send transcripts to the Jane Addams College of Social Work Office of Admissions.

## Academic Advising

Advising is an integral link in the academic process. While the student may seek consultation from various academic personnel, the adviser is responsible for keeping current with the student's progress and integrating the various aspects of his or her program. Through periodic contact with the student, the adviser assists in program and professional career planning and in meeting special educational needs. The academic adviser also assists the student in securing appropriate resources in the event personal needs and problems impinge on academic progress. The adviser assumes responsibility for arranging meetings with the students, dean of students, and other faculty members when appropriate.

The first-year student is assigned an adviser prior to registration. The adviser meets with the student during registration and has periodic conferences throughout the



student's matriculation. A change of academic advisers may be made at the request of the student or the adviser.

### Placement Tests

The Jane Addams College of Social Work does not require its students to take placement tests for admission to the college. However, before admission is granted, students must complete a basic core of general education courses. Enrollment in some of these courses may require placement examinations (e.g., chemistry, composition, mathematics). Consult the *Pre-Enrollment Evaluation Program* under the *Office of Admissions and Records* section of this catalog.

### Advanced Standing Statement

Students who satisfactorily complete the BSW program at the Jane Addams College of Social Work or another accredited program and are accepted for graduate study can apply for advanced standing toward the Master of Social Work degree if they receive grades of "B" or better in foundation and core courses equivalent or parallel to those taken for the MSW. A maximum of 28 credit hours may be given for advanced standing.

### Degree Requirements

Completion of general University requirements for graduation and 120 semester hours, including 16 semester hours of required social and behavioral science courses, and also including a minimum of 35 semester hours of social work courses distributed among the following five areas: (1) social welfare policy and services, (2) human behavior and the social environment, (3) methods of social work practice, (4) social work research, and (5) field instruction.

*Note: A student whose grade point average is below 3.00 may not be allowed to start a senior field placement.*

#### Required in the College of Social Work

	Hours
SocW 300 —Practice I: Interviewing Skills	3
SocW 306 —Practice II: Introduction to Social Work Practice	3
SocW 307 —Practice III: Generalist Practice with Individuals, Families, and Groups	3
SocW 308 —Practice IV: Generalist Practice with Task Groups, Organizations, and Communities	3
SocW 335 —Human Behavior and the Social Environment	3
SocW 337 —Social Work in a Multicultural Society	3
SocW 350 —Social Welfare Policy and Services	3
SocW 360 —Social Work Research	3
SocW 367 —Pre-Professional Internship	1
SocW 370 —Field Instruction I	5
SocW 371 —Field Instruction II	5
<b>Total Hours</b>	<b>35</b>

#### Typical Schedule for the Social Work Major

### JUNIOR YEAR

First Semester	Hours
SocW 300 —Practice I: Interviewing Skills	3
SocW 335 —Human Behavior and the Social Environment	3
Social/behavioral science <sup>5</sup>	6
Elective	3
SocW 367 —Pre-Professional Internship	1
<b>Total Hours</b>	<b>16</b>

Second Semester	Hours
SocW 306 —Practice II: Introduction to Social Work Practice	3
SocW 337 —Social Work in a Multicultural Society	3
Soc 201 —Introductory Sociological Statistics	4
Social/behavioral science <sup>5</sup>	6
<b>Total Hours</b>	<b>16</b>

### SENIOR YEAR

First Semester	Hours
SocW 307 —Practice III: Generalist Practice with Individuals, Families, and Groups	3
SocW 360 —Social Work Research	3
Elective	3
SocW 370 —Field Instruction I	5
<b>Total Hours</b>	<b>14</b>

Second Semester	Hours
SocW 308 —Practice IV: Generalist Practice with Task Groups, Organizations, and Communities	3
SocW 350 —Social Welfare Policy and Services	3
SocW 371 —Field Instruction II	5
Elective	3
<b>Total Hours</b>	<b>14</b>

<sup>a</sup> At least one course in behavioral science and one course in social science.

### Distribution for the Bachelor of Social Work Degree

Lower Division Component	Hours
Liberal Arts Base	60
Upper Division Component	Hours
Social Work Courses	35
Social/Behavioral Sciences <i>Includes Soc 201 (Introductory Sociological Statistics, 4 hours).</i>	16
Electives	9
<b>Total Hours Required</b>	<b>120</b>

### Additional Graduation Requirements

Effective with the Fall 2004 term, UIC will convert its grade point system to a 4.00 scale where 4.00 = A.

Students must also satisfy the additional degree requirements listed below.

#### Hours Required for Graduation

A minimum of 120 semester hours acceptable to the Jane Addams College of Social Work is required for graduation.

Course work that duplicates previous credit does not count towards graduation and no credit is given for a course in which a failing grade is earned. A maximum of 3 semester hours of credit in basic physical education may be applied toward the number of hours required for the degree. Up to 10 semester hours of credit in advanced military science courses (200 level and higher) may be applied towards the degree. Credit earned in basic military science courses or military science credit granted for military service does not count towards the hours needed for the degree.

#### Residency Requirement

The residence requirement must be satisfied. Either the first 90 semester hours or the last 30 semester hours of University work must be taken 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, when approved by the Jane Addams College of Social Work, does not interrupt the UIC residence requirement for graduation. Credit earned through CLEP, proficiency examinations, and through University of Illinois correspondence and extramural courses neither applies toward nor interrupts the residence requirement. Under exceptional circumstances, the residence requirement may be waived by the dean of students in the college office upon petition of the student.

### Transfer Credit

Courses completed at another accredited college or university may be counted towards partial fulfillment of the graduation requirements. The Jane Addams College of Social Work determines the transferability of course work earned at other institutions. Courses listed on the *Notice of College Level Credit* or on a transfer transcript are not necessarily accepted for the degree.

### Grade Point Average

A student must earn a cumulative grade point average of at least 3.00 (A=5.00) in all work taken at the University of Illinois at Chicago. In addition, the combined grade point average of a student's transfer work *and* work taken at UIC must be at least 3.00. A minimum grade point average of 3.00 is also required in all social work courses.

### Graduation Declaration

At the beginning of the senior year, graduating students are required to declare their intention to graduate in the dean of students' office of the college.

## Academic Honors

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### College Honors

To qualify for College Honors, the student must:

1. Meet the college and University requirements for graduation.
2. Earn a minimum of 45 semester hours from the Jane Addams College of Social Work, taken during the three semesters prior to the term of graduation.
3. Achieve a minimum cumulative grade point average in all UIC courses of 4.50 (A=5.00).
4. Rank in the 90th percentile of the college's student body.

### Dean's List

Students are eligible for the Dean's List who have completed a minimum of 12 semester hours of letter grades or 8 hours during the summer term (exclusive of courses taken Pass/Fail) and have earned a minimum term average of 4.50 and rank at the 90th percentile of the college's student body.

## College Policies, Rules, and Regulations

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All students in the Jane Addams College of Social Work are subject to the following rules and regulations of the college.

### Full-Time Program

The program leading to the degree of Bachelor of Social Work requires four semesters of full-time study for completion. A

minimum full-time program for the fall and spring semesters is 12 semester hours. A program of 18 semester hours or more is considered an overload and must be approved by the dean of students.

### Program Changes

Students may add a course to their programs through the last day of instruction in the second week of the fall and spring semesters (the last day of the first week of the summer session). Social work courses may be dropped without academic penalty through the last day of instruction in the sixth week of the fall and spring semesters, and through the fifth week of instruction in the summer session.

Students who wish to drop all courses in which they are enrolled must officially withdraw from the University (see *Withdrawal* ).

### Repeating a Course

A student must repeat a failed course if it is required for the major. A student who wishes to repeat a course in which a passing grade has been earned must obtain the permission of the dean of students in the college office. If approval is granted and the course is repeated, the original credit for the course is forfeited, although both grades will be posted to the student's official transcript and included in the calculation of grade point averages.

### Pass/Fail Option

The Jane Addams College of Social Work does not offer the Pass/Fail option to its students. However, any P/F grades received for general education courses taken prior to admission to social work will be honored by the college.

### Probation and Drop Rules

The following are the probation and drop rules that apply to students in the Jane Addams College of Social Work.

#### 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 3.00 grade point average. This rule applies even for the student with a cumulative grade point average of 3.00 or higher. For such a student the probation serves as a warning.
2. A student readmitted by petition with a UIC grade point average lower than 3.00 will be immediately placed on probation.
3. A student readmitted by petition whose combined cumulative grade point average from UIC and other institutions is lower than 3.00 will immediately be placed on probation.
4. An entering transfer student admitted by petition with a cumulative grade point average lower than 3.00 will be immediately placed on probation.

A student on academic probation who earns a grade point average of at least 3.00 in a given term will be removed from probation, provided the student's cumulative grade point average in all work taken at UIC is at least 3.00. Furthermore, for the student with transfer credit, the combined average of the student's transfer credit and UIC course work must also be at least 3.00.

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 a 3.00; 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 credit and UIC course work to at least 3.00.

### **Drop Rules**

1. A student on academic probation will be dropped 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 3.00.
2. A student on academic probation will be dropped 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 3.00.
3. A student on academic probation will be dropped for failure to raise the cumulative grade point average to the required minimum of 3.00 within two terms following probation.
4. A student on academic probation will be dropped if the student fails to earn at least a 2.00 (D) average in any one term.
5. A student who fails to make progress towards a degree may be dropped. (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 social work major.)

# Social Work Courses

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## Social Work (SocW)

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- 100 Contemporary Social Work. 3 Hours.** Survey of social welfare, major problem areas, and client groups. Introduction to the organization and structure of social services. Overview of social work as a profession.
- 300 Practice I: Interviewing Skills. 3 Hours.** Basic knowledge and skill elements of interviewing; preparation for subsequent practice courses. Prerequisites: SocW 100 and admission to Bachelor of Social Work program.
- 306 Practice II: Introduction to Social Work Practice. 3 Hours.** Values and ethics of professional practice; agency as practice context; introduction to interventions with client systems of various sizes in urban community contexts. Prerequisites: SocW 300 and junior standing or above.
- 307 Practice III: Generalist Practice with Individuals, Families, and Groups. 3 Hours.** Generalist practice principles applied to individuals, families, and groups including content on community context, racial and ethnic minorities, poor, oppressed, and other urban vulnerable communities. Prerequisites: SocW 306. Open only to seniors.
- 308 Practice IV: Generalist Practice with Task Groups, Organizations, and Communities. 3 Hours.** Generalist practice principles applied to task groups, organizations, and communities including focus on community context and the poor, oppressed and other urban vulnerable communities. Prerequisites: SocW 307. Open only to seniors.
- 335 Human Behavior and the Social Environment. 3 Hours.** Human development through the life cycle including urban family, group, community, and organizational interactions with social, cultural, physiological, and psychological factors. Prerequisite: Junior standing in the Bachelor of Social Work Program.
- 337 Social Work in a Multicultural Society. 3 Hours.** Place of social work in a multicultural society; focus on racial and ethnic minority groups, particularly African Americans, Latinos, Asian Americans, and Native Americans. Prerequisite: Admission to the Bachelor of Social Work program or consent of the instructor.
- 350 Social Welfare Policy and Services. 3 Hours.** Social work history; structure and development of current policies; policy analysis and policy advocacy skills for social and economic justice. Prerequisite: Admission to the Bachelor of Social Work program.
- 360 Social Work Research. 3 Hours.** Research methodology basics applied to social work; problem formulation, design, measurement, sampling, data analysis, computerization, ethics, qualitative and quantitative methodologies. Prerequisite: Admission to the Bachelor of Social Work program.
- 367 Pre-Professional Internship. 1 Hour.** Satisfactory/Unsatisfactory grade only. Observational experiences in social work agencies; emphasis on urban community-based settings. Prerequisites: Junior standing or above, consent of the instructor, and admission to the Bachelor of Social Work program.
- 368 Research Project. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Application of research methods to a social work problem in an individual or group project or library research project. Preparation of a formal report based on field study processes and findings. Prerequisites: SocW 360, consent of the instructor, and approval of the college.
- 369 Independent Study. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Independent or group study in areas of special interest; application of social work principles to special problems or settings. Prerequisites: Consent of the instructor and approval of the college.
- 370 Field Instruction I. 5 Hours.** Satisfactory/unsatisfactory grade only. Students are assigned to social agencies where, under the supervision of an agency field instructor, selected micro and macro system cases are carried for social work services. Prerequisite: Consent of the instructor.
- 371 Field Instruction II. 5 Hours.** Satisfactory/unsatisfactory grade only. Students are assigned to social agencies where, under the supervision of an agency field instructor, they carry selected cases or groups for social work services. Prerequisites: SocW 370 and consent of the instructor.
- 379 Integrative Seminar. 2 Hours.** Integration of knowledge and attitudes from the liberal arts, systems concepts of human behavior, generalist approaches to practice, policy and research with practicum experience. Prerequisites: Concurrent registration in SocW 371 and consent of the instructor.



# Additional Courses

## Academic Skills Program (ASP)

*Academic Skills Program courses are designed to help students meet the reading, writing, study, and learning demands at UIC. ASP courses receive equivalent hours that contribute toward the calculation of tuition, full or part-time enrollment status, and financial aid eligibility.*

- 050 Speaking, Reading, and Writing in English as a Second Language. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Reading, speaking, and writing formal and colloquial English for students with limited English proficiency. English language skills in everyday and academic contexts stressed.
- 051 Advanced Communication Skills in English as a Second Language. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. 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. Prerequisite: ASP 050 or an appropriate score on the reading placement test, or consent of the instructor.
- 052 Vocabulary Enrichment in English as a Second Language. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Strategies for increasing, building, and retaining better vocabularies. Instruction in combining forms, analogies and using the dictionary.
- 055 Communication Skills for International Graduate Students. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Satisfactory/Unsatisfactory grade only. 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.
- 060 Studying/Learning Across the Disciplines. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Offers practical methods for applying learning strategies to tasks typical of coursework in various disciplines.
- 062 Topics in Learning Support Instruction. 2 Equivalent Hours. 0 Academic Hours.** No graduation credit. 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. Prerequisite: Consent of the instructor.
- 063 Topics in Learning Support Instruction for LARES Students. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. May be repeated for credit. Restricted to students enrolled in the Latin American Recruitment and Educational Services Program. Specially designed course that introduces and provides practice in special topics related to reading, writing, learning and thinking strategies geared to specific course demands. Prerequisite: Consent of the instructor.

- 086 Critical Reading and Thinking I - LARES. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Restricted to students in the Latin American Recruitment and Educational Services Program. 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.
- 087 Critical Reading and Thinking II - LARES. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Restricted to students enrolled in the Latin American Recruitment and Educational Services Program. 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. Prerequisite: ASP 086 or an appropriate score on the reading placement test, or consent of the instructor.
- 088 Intensive Writing Workshop for LARES Students. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Restricted to students in the Latin American Recruitment and Educational Services Program. 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.
- 090 Critical Reading and Thinking I. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Strategies for comprehending, writing about, and learning textbook material representing different academic disciplines. Instruction in writing summaries and syntheses of readings included.
- 091 Critical Reading and Thinking II. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. 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. Prerequisite: ASP 090 or an appropriate score on the reading placement test, or consent of the instructor.
- 092 Vocabulary Enrichment. 2 Equivalent Hours. 0 Academic Hours.** No graduation credit. Course meets 8 weeks only. 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.
- 095 Academic and Professional Writing. 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. Academic and professional writing principles and their application are introduced and practiced. Practice in writing resumes, business and professional correspondence, reports, and theses.
- 096 Independent Study. 0 to 3 Equivalent Hours. 0 Academic Hours.** No graduation credit. For those who wish to supplement regular courses or undertake individual study projects. Prerequisite: Approval of the department.

## Biochemistry (Bche)

- 396 Independent Study. 1 to 4 Hours.** Independent study (non-laboratory) for advanced undergraduates majoring in appropriate disciplines. Prerequisite: Consent of the instructor.
- 399 Introduction to Research Methods. 1 to 4 Hours.** Designed primarily for advanced undergraduate students who will receive a closely supervised research experience in a biochemistry faculty laboratory. Prerequisites: Credit or concurrent registration in organic chemistry and analytical chemistry; and consent of the instructor.
- 460 Biochemistry. 5 Hours.** Intended primarily for first-year graduate students and advanced undergraduates. Discussions of chemistry and metabolism of carbohydrates, lipids, proteins and nucleic acids. Also includes elements of enzymology. Prerequisite: Organic chemistry.

## Guaranteed Admissions Medicine (GAMD)

- 200 GPPA Special Topics in Medicine. 1 Hour.** Satisfactory/Unsatisfactory grade only. Enrollment limited to Honors College students admitted to the GPPA College of Medicine track. Exploration of the interplay of scientific foundations of medicine, the skills of the physician-patient interaction, and the necessary use of emerging medical technologies.

## Microbiology and Immunology (MIm)

- 326 Introduction to Medical Microbiology. 3 Hours.** Introduction to the fundamental aspects of bacterial, fungal, and viral pathogenesis, therapy, control and prevention of infectious diseases. Prerequisite: BioS 100 and 101 and Chem 130 or the equivalent courses. Credit in BioS 350 is recommended.

## Military Science (MiLS)

*Note: Students may enroll in Military Science courses regardless of sexual orientation, in accordance with the University's non-discrimination policy. However, students should be aware that homosexual conduct, which may be interpreted as stating that one is lesbian, gay, or bisexual is grounds for disqualification from entering into a contract with the federal government to become a commissioned officer.*

- 101 U.S. Defense Establishment. 1 Hour.** 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.
- 102 Customs and Traditions of the Military. 1 Hour.** Fundamentals, principles, and traits of leadership; discussion and practical application of communication and counseling techniques. A practical laboratory is required.
- 107 Introduction to United States Military History. 3 Hours.** 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. A practical laboratory is required.

- 199 Military Topics. 1 to 3 Hours.** May be repeated for a maximum of 4 hours of credit. Students may register for more than one section per term. Research and study of selected topics. A practical laboratory is required. Prerequisite: Approval of the department.
- 201 Fundamentals of Leadership, Organization and Planning. 2 Hours.** 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.
- 202 Leadership Dynamics. 2 Hours.** Role of intermediate supervisors in military operations; introduction to professional ethics and characteristics of the Army officer corps. A practical laboratory is required.
- 301 Military Operations and Tactics. 3 Hours.** Introduction to the principles of war; practical exercises in small unit leadership, combined arms operations. A practical laboratory is required. Prerequisites: MILS 101 and 102 and 201 and 202 and approval of the department.
- 302 Organizational Leaders. 3 Hours.** Study of group processes, motivation, communications, socialization, organizational effectiveness, and the impact of leader behavior. A practical laboratory is required. Prerequisites: MILS 101 and 102 and 201 and 202 or the equivalent courses and approval of the department.
- 311 Military Law. 3 Hours.** Nature, structure, powers, and procedures of the Uniform Code of Military Justice. A practical laboratory is required. Prerequisites: MILS 301 and 302 and approval of the department.
- 312 Training and Resource Management. 3 Hours.** Nature of command and staff relationships; theory and application of U.S. Army training management doctrine. A practical laboratory is required. Prerequisites: MILS 301 and 302 and approval of the department.
- 394 Advanced Military Topics. 1 to 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Study of advanced topics in military science. A practical laboratory is required. Prerequisite: Approval of the department.
- 399 Advanced Independent Research. 1 to 3 Hours.** May be repeated for a maximum of 6 hours of credit. Students may register for more than one section per term. Intensive research and study of selected topics. A practical laboratory is required. Prerequisite: Approval of the department.

## Naval Science (NS)

*Note: Additional information on course offerings can be obtained from the Department of Naval Science, Illinois Institute of Technology, Chicago. Students should attempt to plan their schedules to include the laboratory period associated with each of the listed courses. The laboratory is held at the Illinois Institute of Technology campus on Thursday afternoons. .bd off;*

- 101 Introduction to Naval Science. 2 Hours.** 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: Consent of the instructor.

- 200 Naval Ships Systems. 3 Hours.** The types, structure, and purpose of naval ships. Includes nuclear, gas turbine, and steam propulsion systems, auxiliary systems, interior communications, and damage control. Prerequisite: Consent of the instructor.
- 201 Naval Weapons Systems. 3 Hours.** Introduction to the theory and principles of naval weapons systems. Covers type of weapons, capabilities and limitations and theory of operation. Prerequisite: Consent of the instructor.
- 202 Sea Power and Maritime Affairs. 3 Hours.** Concept of seapower and its effect on history, naval strategies of the past and present, the role of U.S. seapower from the Revolutionary War to the present. Prerequisite: Consent of the instructor.
- 294 Topics in Naval Science. 1 to 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Study of topics in naval science. Prerequisite: Approval of the Department.
- 301 Navigation. 3 Hours.** Ship navigation. Covers areas of piloting, celestial and electronic means of shipboard navigation. Prerequisite: Consent of the instructor.
- 302 Naval Operations. 3 Hours.** Ship operations and movement. Covers maneuvering, seamanship, communications, and command and control. Prerequisite: Consent of the instructor.
- 310 Evolution of Warfare. 3 Hours.** 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: Consent of the instructor.
- 320 Amphibious Warfare. 3 Hours.** Historical survey of the evolution of amphibious warfare in the twentieth century. Prerequisite: Consent of the instructor.
- 351 Naval Leadership and Ethics. 3 Hours.** Responsibilities of the junior naval officer and division officer. Professional responsibilities that the junior officer will have after commissioning will be covered. Prerequisite: Consent of the instructor.
- 360 Leadership Seminar. 0 Hours.** Satisfactory/unsatisfactory grade only. Application of the study of organizational behavior and management to naval science. Case studies. Prerequisites: Concurrent registration in Mgmt 340 and approval of the department.
- 394 Advanced Topics in Naval Science. 1 to 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Study of advanced topics in naval science. Prerequisite: Approval of the Department.
- 399 Independent Study in Naval Science. 1 to 3 Hours.** May be repeated for credit. Students may register for more than one section per term. Independent study of an area within naval science under the direction of a faculty member. Prerequisite: Consent of the instructor and approval of the Department.

## Physiology and Biophysics (PhyB)

- 396 Independent Study. 1 to 4 Hours.** Independent study (non-laboratory) for advanced undergraduates majoring in appropriate disciplines. Prerequisite: Consent of the instructor.

- 399 Laboratory Research. 1 to 4 Hours.** Satisfactory/unsatisfactory grade only. Laboratory research for advanced undergraduates majoring in appropriate disciplines. Prerequisite: Consent of the instructor.

## Urban Planning and Policy (UPP)

- 101 Introduction to Urban Studies. 3 Hours.** General survey of urban issues and experience using an interdisciplinary approach.
- 202 Planning Great Cities. 3 Hours.** 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.
- 302 Great Cities Internship. 6 Hours.** Same as Political Science 302. Provides students an opportunity to apply theoretical knowledge and conduct research in metropolitan organizations through field placements and seminars. Prerequisites: Junior or senior standing and grade point average of 4.00, or consent of the instructor.
- 403 Introduction to Urban Planning. 3 Hours.** Patterns of city growth, physical, socio-economic, and environmental issues. Contemporary planning issues. Future of cities. Prerequisite: Advanced undergraduate standing or consent of the instructor.
- 420 Great Cities: London and Chicago. 1 to 8 Hours.** Fieldwork required. Comparative investigation of urban, economic, social, and political issues in the two global cities. Includes classes, study, and living in London. Prerequisites: Junior standing or above and selection by the Office of Study Abroad admission committee.
- 461 Urban and Regional Transportation Methods. 3 Hours.** Same as Civil Engineering, Mechanics, and Metallurgy 404. Methods and models for analyzing and forecasting transportation requirements, costs, and capacities. Prerequisite: Consent of the instructor.
- 470 Cohort Seminar for Urban Developers. 3 Hours.** Application of the financial calculator, use of spreadsheets, and other tools commonly used in real estate-based urban development projects. Prerequisite: Consent of the instructor.
- 471 Housing and Community Development for Urban Developers. 3 Hours.** Housing policy at federal, state and local levels affecting urban housing markets. Emphasis on assessment of market conditions affecting community development decisions. Prerequisite: UPP 470 or consent of the instructor.
- 472 Development Finance for Urban Developers. 3 Hours.** Key financial principles of real estate development, particularly those related to the financing of affordable housing. How to develop a real estate pro forma. Prerequisite: Consent of the instructor.
- 473 Organizational Essentials for Urban Developers. 3 Hours.** Theory and practice of management in public and non-profit settings. Focus on developing communication, leadership and legal skills for each step in development. Prerequisite: Consent of the instructor.

**474 Community Development Process for Urban Developers. 3 Hours.**

Developing affordable housing: development team, acquisition strategy, legal issues, construction management and project sustainability, as it pertains to different types of housing developments. Prerequisite: Consent of the instructor.

**475 Sustaining the Housing for Urban Developers. 3 Hours.**

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. Prerequisite: Consent of the instructor.

# Faculty List

## The University Library

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David L. Austin  
MLIS University of California, Berkley

Mary Ann Bamberger  
MA, DePaul University (Emerita)

Nirmala S. Bangalore  
MA, University of Wisconsin, Madison

Marjorie C. Bengtson  
MS, University of Illinois at Urbana-Champaign

Deborah Blecic  
MS, University of Illinois at Urbana-Champaign

Alex Bloss  
MLS, Western Reserve University

Martin Brennan  
MLIS, University of Illinois at Urbana-Champaign

John M. Cullars  
MLS, PhD, Indiana University

Robert A. Daugherty  
MS, University of Illinois at Urbana-Champaign

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

Tiffeni J. Fontno  
MLS, Kent State University

Helen Georgas  
MLS, University of Toronto

Karen Graves  
MLS, University of Maryland

Lynn C. Hattendorf Westney  
MS, University of Illinois at Urbana-Champaign

Sue Hollander  
MPA, State University of New York College at Brockport;  
MLS, Northern Illinois University, DeKalb

Julie M. Hurd  
MS, Michigan State University;  
MA, PhD, University of Chicago

Susan Jacobson  
MSLS, Drexel University

Nancy R. John, Interim University Librarian  
MLS, University of California, Los Angeles

William G. Jones  
AMLS, University of Michigan

Gretchen A. Lagana  
MLS, University of Wisconsin, Madison;  
MA, San Jose State College

Jay Lambrecht  
MS, University of Illinois at Urbana-Champaign

H. Robert Malinowsky  
MLS, University of Denver

Kavita Mundle  
MLS, Dominican University

Kevin O'Brien  
MLS, Indiana University

Gladys C. Odegard  
MA, University of Minnesota

Victoria Pifalo  
MLS, State University of New York at Albany

Lisa Pillow  
MLS, Kent State University

Aimee C. Quinn  
MLS, Louisiana State University

Sue Reyna  
MLIS, Louisiana State University

Carol Scherrer  
MALS, Rosary College

Louis Schultheiss  
MA, University of Denver (Emeritus)

Marsha Selmer  
MS, Western Michigan University

John Shuler  
MLS, University of California, Los Angeles

Mary Shultz  
MILS, University of Illinois at Urbana-Champaign

Wendall Sullivan  
MLIS, University of Michigan;  
MA, University of Chicago

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

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### School of Biomedical and Health Information Sciences

Zhumming Ai  
PhD, Nanjing Institute of Technology

Scott Barrows  
CMI, FAMI, University of Illinois at Chicago

Greg Blew  
MAMA, University of Illinois at Chicago

David Burdick  
BA, Northwestern University

John Daugherty  
MS, University of Michigan

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# Campus Map and Travel Directions

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## Public Transportation

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### 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 Website <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 1-888-YOUR-CTA (1-888-968-7282), or visit their Website at <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 Website <http://www.metrarail.com>.

UIC provides commuter bus service between the Ogilvie Transportation Center (formerly North Western Station), Chicago Union Station, and the UIC campus. Commuter bus tickets are sold in books of 25 by the cashiers in Chicago Circle Center and the Marshfield Building, and at the Campus Information Center in the Chicago Illini Union.

From the Ogilvie Transportation Center (formerly North Western Station) 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 west-bound 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 Website <http://www.pacebus.com>.

## By Car

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### From the North

Take the Kennedy Expressway (I-90/94) east-bound to the Eisenhower Expressway (I-290) west-bound.

**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) west-bound 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) east-bound.

**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

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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.