

Roosevelt University  
Undergraduate Catalog

2004-2006







# Roosevelt University Undergraduate Catalog

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College of Arts and Sciences

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Walter E. Heller College of  
Business Administration

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College of Education

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Chicago College of Performing Arts

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Evelyn T. Stone University College

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2004-2006  
Chicago and Schaumburg, Illinois

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Dedicated to the enlightenment of the human spirit.

## Greetings from the President

Dear Student,

Welcome and congratulations! Your decision to attend Roosevelt University was one of the most significant you have made. It will remain so in the future, no matter what else happens to you while you are at the University or after you graduate. As one of our students you will be a member of a dynamic community of talented and forward-looking people. It will give much to you, and it will ask in return that you help nurture it in various ways both while you are here and thereafter.

This is a special time for Roosevelt University as we will be celebrating the University's 60th anniversary with a series of events and lectures to honor the past, recognize the accomplishments of our alumni, and focus on the future. I encourage you to attend as many of these events as you can.

Your first priority, of course, is to work on earning your degree. Our goal is to challenge you academically and to encourage and support you as you pursue the educational opportunities you will find here. Much of your experience will be focused on the materials you study in the classrooms, studios, and laboratories. The faculty strives to assure that these are challenging experiences and that they prepare you effectively to leave the University ready to make your mark in the world, be that as a teacher, as a business person, or in one of the many professions that Roosevelt graduates help to shape.

There is, however, much more to becoming an educated person than passing your courses and earning your degree, as important and central as these are. As a member of this special community, you will also be shaped personally in many ways that will enrich your life and help define what kind of person you become as your future unfolds. The opportunity to meet and engage other students from a rich array of individual backgrounds and experiences will assuredly also be a significant part of your attaining long-term success.

One of the special aspects of Roosevelt University is that it has historically been a place where economic opportunity and social justice are attained through educational accomplishment. How that is done may change over time, of course; but our common commitment is to continue the value we place on each individual's success and development in all aspects of life.

My very best wishes for your success at Roosevelt University.



# The University

## Mission

Roosevelt University aspires to be a national leader in educating socially conscious citizens for active and dedicated lives as leaders in their professions and their communities.

The University's student-centered faculty and staff inspire academically qualified students from diverse backgrounds and all ages to benefit from rigorous higher education and professional development opportunities in the dynamic Chicago metropolitan environment.

Deeply rooted in practical scholarship and principles of social justice expressed as ethical awareness, leadership development, economic progress, and civic engagement, Roosevelt University encourages community partnerships and prepares its diverse graduates for responsible citizenship in a global society.

## History

Roosevelt's founding in 1945 as an independent, coeducational institution of higher learning was a feat requiring considerable courage. The new school had no campus, no library, and no endowment. But its founders had an ideal that enabled them to overcome great obstacles. They were determined to make higher education available to all students who could qualify academically. Considerations of social or economic class, racial or ethnic origin, sex, or age were, and remain, irrelevant in determining who is admitted. Originally named Thomas Jefferson College, the new school was soon renamed Roosevelt College in recognition of Franklin and Eleanor Roosevelt's democratic ideals and values. Members of the early advisory boards included Eleanor Roosevelt, Marian Anderson, Pearl Buck, Ralph Bunche, Albert Einstein, Thomas Mann, and Gunnar Myrdal.

The Roosevelt experiment was a success from the start. Independent and unencumbered by tradition, Roosevelt was free to pioneer new educational programs and democratic decision making. Student representatives are voting members of the University Senate; and faculty, alumni, and student representatives serve on the Board of Trustees. While insisting that its students meet the same high standards of academic excellence that characterize any first-rate university, Roosevelt has kept its doors open to the residents of the inner city, to students who work full-time to support themselves, and to students who are the first members of their families to attend college. Current enrollment is more than 7,400 students, of whom about one third are pursuing graduate studies. A large percentage of Roosevelt students also work either full-time or part-time.

Roosevelt offers programs and services that place the needs of its students uppermost in its priorities. Class schedules are flexible. Courses are offered from

early morning until late at night as well as on weekends, and class sizes are small. The Roosevelt faculty, numbering more than 500 full-time and part-time members, is accessible to students. An impressive number of the faculty publish books and articles, conduct important research, and perform in the world's great concert halls. But first and foremost, Roosevelt professors are dedicated teachers who enjoy teaching and excel at it.

For many students, Roosevelt University's appeal is its focus on traditional academic disciplines, out of which innovative interdisciplinary programs have emerged. A Roosevelt education long has been characterized as being slightly ahead of the academic mainstream, and the University's many new academic programs continue that tradition. The College of Arts and Sciences has developed new centers of excellence in the social sciences, humanities and natural sciences, and an honors program called the Roosevelt Scholars. Programs in the Walter E. Heller College of Business Administration combine a solid liberal arts background with professional training in areas from accounting and financial services to international business. The College of Education has played a leadership role in the Chicago Educational Alliance, a consortium of nine university presidents and leaders from the Chicago Public Schools. The Chicago College of Performing Arts offers many rigorous performance programs in music and theatre along with studies in such areas as jazz studies, music education, and composition. The Evelyn T. Stone University College is a well-established college for adults who return to earn their degrees. Through a generous grant from the McCormick Tribune Foundation, Roosevelt has undertaken an initiative in fully online education, called RU Online, offered through the Evelyn T. Stone University College.

Roosevelt is known as an outstanding metropolitan university for several reasons. Its main campus in downtown Chicago and its suburban campus in Schaumburg are near convenient modes of transportation, which make it easy for working students to attend classes. The University provides numerous public services for the greater metropolitan area from which it draws the bulk of its students.

Roosevelt also has a number of specialized areas of study including affiliations with other academic, health, theatrical, legal, and civic institutions. Exchange programs with international universities and schools provide a global dimension for both American and international students who come to study at the University. The Franklin and Eleanor Roosevelt Center for Democratic Values comprises the Institute for Metropolitan Affairs, the St. Clair Drake Center for African and African-American Studies, the Center for New Deal Studies, and the Mansfield Institute for Social Justice—all of which promote research, discourse, and social action in the areas of social responsibility and social justice. In all of its richly varied educational and research programs, Roosevelt is inspired and guided by the words of Eleanor Roosevelt who dedicated the University "to the enlightenment of the human spirit."

## Campuses

### Roosevelt's Historic Chicago Campus

Since 1947 Roosevelt's home has been the famous Auditorium Building on Michigan Avenue, overlooking Grant Park and Lake Michigan. Completed in 1890, the Auditorium Building is considered the masterpiece of architects Dankmar Adler and Louis Sullivan. It is listed in the National Register of Historic Places, was declared a National Historic Landmark in 1975, and was designated a Chicago landmark in 1976.

One of the earliest multipurpose buildings constructed in this country, the Auditorium Building originally included a luxurious 400-room hotel, a business section of 136 offices and stores, and the Auditorium Theatre seating 4,200. The theatre, world renowned for its beauty and near-perfect acoustics, was once described by Frank Lloyd Wright as "the greatest room for music and opera in the world—bar none." Wright served his apprenticeship as chief draftsman for Adler and Sullivan during construction of the Auditorium Building. Roosevelt students enjoy many events in the Auditorium Theatre; it is used for major theatrical events, University convocations, commencement exercises, occasional University concerts, and other events. Throughout the years the University has sought to renovate and restore the historically significant areas of the Auditorium Building, including Rudolph Ganz Memorial Hall, the Louis Sullivan Room, Oscar Fainman Memorial Hall, the Michigan Avenue lobby, and the south alcove of the Murray-Green Library. At the same time, the University has modernized classrooms, laboratories, and computing areas to keep pace with changes in technology and pedagogy.

Continuing renovation of the Auditorium Building and future growth in programs and enrollment have been made possible by the opening in 2001, of the Center for Professional Advancement in the historic Gage Building, four blocks north of the Auditorium Building on Michigan Avenue. Another historic landmark designed in part by Louis Sullivan, the Gage Building was renovated to accommodate the latest technologies for programs in business, computer science, and communications. With its expanded presence on Michigan Avenue close to the heart of Chicago's business community, Roosevelt has reaffirmed its commitment to provide state-of-the-art facilities to meet the needs of students in the 21<sup>st</sup> century.

For students who want the convenience of living on campus, the Herman Crown Center offers residence hall rooms, a cafeteria, and a fully equipped recreation center adjacent to the Auditorium Building. The Center offers students opportunities for democratic living, organized social activities, and access to a wide range of academic and cultural events.

In the fall of 2004, the University will open a new residence hall close to campus. The University Center, a joint venture between Roosevelt University, DePaul

University, and Columbia College, will be a state-of-the-art residence hall, housing 1,700 students. With the opening of University Center as an enhancement to the already existing concentration of educational and cultural institutions, the South Loop will become one of the most vital centers for student life in the country.

#### Albert A. Robin Campus, Schaumburg

When Roosevelt University opened its first campus in the northwest suburbs of Chicago in 1978, few could have predicted how successful its presence would be. Starting out with a small satellite operation with 800 students at North School in Arlington Heights, Roosevelt University moved to its present location in Schaumburg in 1996. Now, with over 25 years in the northwest suburbs, Roosevelt University has firmly established itself as one of the premier institutions of higher education in the area. The Schaumburg campus currently serves approximately 3,300 students, almost 45 percent of the entire University enrollment. It is the only comprehensive private university campus in Chicago's northwestern suburbs.

The 30-acre campus offers classes through the College of Arts and Sciences, the Walter E. Heller College of Business Administration, the College of Education, and the Evelyn T. Stone University College. Courses are offered during the day, evenings, and weekends to accommodate students' busy work and family schedules. Childcare is available to students, faculty, and staff through the Early Childhood Education Center (ECEC). The ECEC has a committed staff, a state-of-the-art facility, and flexible schedules to care for and educate infants, toddlers, preschoolers, and kindergarteners.

A full range of student services is available at the Schaumburg campus along with a dining center, an electronic library, a bookstore, and a fitness/recreation area. Various student organizations and associations are active on the Schaumburg campus, offering opportunities to meet other students and gain leadership experience. The campus is an ongoing host to a number of local and regional art exhibits and is open to community organizations and businesses for hosting meetings and receptions.

The campus is located in one of the most dynamic hubs of business and industry in the nation, in the immediate vicinity of several major corporations and numerous retail establishments, including Woodfield Mall. This proximity to commerce and the University's strong relationships with area business and industry offer students and graduates a wealth of opportunities for employment, internships, and career growth or advancement. A community advisory board of over 50 business and civic leaders in the northwest suburbs provides counsel and support to the University as well as scholarships and mentoring opportunities for students.

## Accreditation

All degree programs at Roosevelt University are accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. North

### Regional and Professional Accreditations

- American Psychological Association (PsyD)
- Association of Collegiate Business Schools and Programs
- Council for Accreditation of Counseling and Related Educational Programs
- Council of Higher Education Accreditation
- Illinois State Board of Education
- Illinois Veterans Commission
- National Association of Schools of Music
- National Council for Accreditation of Teacher Education
- North Central Association of Colleges and Schools
- The American Chemical Society

### University Memberships

- AACSB – The Association to Advance Collegiate Schools of Business
- American Association of Colleges for Teacher Education
- American Association of Collegiate Registrars and Admission Officers
- American Council of Academic Deans
- American Council on Education
- Association of Governing Boards
- Committee on Black Concerns in Higher Education
- Council of Colleges of Arts and Sciences
- Educause
- Federation of Independent Illinois Colleges and Universities
- Grant Resource Center
- Illinois Association for College Admission Counseling
- Illinois Association of College for Teacher Education
- Illinois Association of Collegiate Registrars and Admission Officers
- Illinois Association of Graduate Schools
- Illinois Consortium for Educational Opportunity Programs
- Illinois Council on Continuing Higher Education
- Illinois Council, American College Testing Program
- Institute of International Education
- Midwestern Association of Graduate Schools
- National Association for College Admission Counseling
- National Association for Foreign Student Affairs
- National Association of Graduate Admission Professionals
- National Association of Independent Colleges and Universities
- National Council of University Research Administrators
- Resources for the Education of Adults in the Chicago Area (REACH)
- The College Board
- UMI ProQuest Digital Dissertations

## Undergraduate Degrees

University programs are designed to meet a number of educational needs and to provide for both general and specialized education.

- Bachelor of Arts
- Bachelor of Arts in Education
- Bachelor of Fine Arts
- Bachelor of General Studies
- Bachelor of Music
- Bachelor of Musical Arts
- Bachelor of Science
- Bachelor of Professional Studies
- Bachelor of Science in Business Administration
- Bachelor of Science in Hospitality and Tourism Management

## Majors, Minors, and Programs of Study

### College of Arts and Sciences

Actuarial Science	Journalism
Advertising	International Studies
African-American Studies	Legal Studies
Allied Health-Medical Technology	Mathematics
Allied Health-Nuclear Medicine Technology	Metropolitan Studies
Allied Health-Radiation Therapy Technology	North American Studies
Art History	Paralegal
Biology	Philosophy
Biotechnology	Physics
Chemistry	Political Science
Communications	Pre-Dentistry
Computer Science	Pre-Medicine
Creative Writing	Pre-Pharmacy
Economics	Pre-Veterinary Medicine
Electronics Engineering Technology	Psychology
English	Public Administration
English Language Program	Public Relations
Environmental Policy	Social Justice
Environmental Science	Social Science
Geography	Sociology
History	Spanish
Integrated Communications	Statistics
	Telecommunications
	Web Technology Systems
	Women's and Gender Studies

## Walter E. Heller College of Business Administration

Accounting	Management
Finance	Marketing
Human Resource Management	Risk Management and Insur-

## College of Education

Early Childhood Education	Secondary Education
Elementary Teacher Education	Special Education

## Chicago College of Performing Arts

The Theatre Conservatory  
Acting  
Musical Theatre

## The Music Conservatory

Bassoon	Horn	Trombone
Cello	Jazz Studies	Trumpet
Clarinet	Music Education	Tuba
Composition	Musical Arts	Viola
Double Bass	Oboe	Violin
Flute	Orchestral Studies	Voice
Guitar	Percussion	
Harp	Piano	

## Evelyn T. Stone University College

Administrative Studies	Metropolitan Studies
Business	Organizational Communication
Communications	Organizational Leadership
Computer Science	Paralegal Studies
Criminal Justice Administration	Political Science
Early Childhood Teacher Education	Pre-Biotechnology and Chemical Science
Financial Services	Professional Administration
History	Psychology
Hospitality and Tourism Management	Risk Mgmt, Insurance, and Financial Svcs
Individualized Program	Sociology
International Studies	Systems Management
Journalism	Telecommunications
Languages	Web Technology Systems
Liberal Arts	Women's and Gender Studies
English Literature	

**Undergraduate Certificate Programs**

ABC Relaxation Training  
Biotechnology  
Chemistry  
Child and Family Studies  
Computer Science  
Geographic Information Systems  
Meeting, Convention, and Exhibition Management  
Meeting Coordinator  
Organizational Leadership  
Telecommunication  
Web Technology



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## College of Arts and Sciences

Since its founding in 1945, the College of Arts and Sciences has been the core of the educational environment at Roosevelt University. The College instructs students in the critical, cultural, and technological literacies that enable them to create satisfying lives as professionals, citizens, and private individuals. To prepare students for rewarding work lives, courses are offered in emerging professional and technical fields as well as in the traditional arts and sciences. The College provides opportunities for students to fulfill general education requirements, complete majors leading to bachelor's degrees, and prepare for admission to professional and graduate schools. The College of Arts and Sciences is organized into the following schools and disciplines:

### School of Communication

- Advertising
- Business Communications
- Communications
- Integrated Communications
- Journalism
- Media Studies
- Professional Communications
- Public Relations
- Speech

### School of Computer Science and Telecommunications

- Computer Science
- Telecommunications
- Web Technology Systems

### School of Liberal Studies

- Art
- English
- English Language Program
- History
- Languages
- Philosophy

### School of Policy Studies

- Anthropology
- Economics
- Geography (Social)
- Political Science
- Public Administration
- Sociology

### School of Psychology

- Psychology
- Stress Institute

### School of Science and Mathematics

- Actuarial Science
- Allied Health Programs
- Biology
- Biotechnology
- Chemistry
- Electronics Engineering Technology
- Environmental Science
- Geography (Physical)
- Mathematics
- Physics
- Statistics

### Interdisciplinary Programs

- African-American Studies
- Environmental Policy
- International Studies
- Legal Studies
- Metropolitan Studies
- North American Studies
- Social Justice
- Social Science
- Women's and Gender Studies

## Degree Programs in the Arts and Sciences

The College of Arts and Sciences offers undergraduate programs leading to the degrees of Bachelor of Arts and Bachelor of Science. The particular degree that a student will earn is largely determined by the student's major field. Students majoring in actuarial science, allied health programs (medical technology, nuclear medicine technology), biology, chemistry, computer science, electronics engineering technology, mathematics, psychology, statistics, telecommunications, and web technology systems may earn the BS degree. Actuarial science, biology, chemistry, computer science, mathematics, psychology, statistics, telecommunications, and web technology systems also offer the BA degree. Students should note the difference in degree requirements and discuss with their academic advisor which degree would be most appropriate. All disciplines not listed above grant only the BA degree.

Candidates for the BS degree must complete at least 60 semester hours in the natural sciences and/or psychology. A minor sequence of 15 semester hours in one second science discipline (biology, chemistry, computer science, mathematics, physical geography, physics, psychology, or statistics), exclusive of Math 099, 100, 105, and 110, Cst 100, and Geog 101, 102, is required for the BS degree. The minor sequence requirement is automatically fulfilled for those special programs listing interdisciplinary requirements. Minor sequence requirements for the BA degree are described in this bulletin under individual programs or disciplines.

## Requirements for Bachelor of Arts and Bachelor of Science Degrees

Students should meet regularly with program advisors, particularly during the regular advising periods, to plan a course of study designed to satisfy all requirements. Students who are new to the University or who have not declared an academic major receive advising in the advising centers. Whenever possible, students should bring documents concerning previous college-level work. All new freshmen and transfers must take the Roosevelt University Assessment test for placement in English and mathematics.

University Writing Requirement .....	6
General Education.....	35-38
Major, minor, and electives .....	76-79
Total semester hours required for graduation .....	120

### University Writing Requirement

Eng 101 and Eng 102 taken at Roosevelt University will normally satisfy this requirement. For details see University Writing Requirement in this catalog.

### General Education Requirements

This requirement consists of courses designed to support and supplement academic majors. These include courses in basic skills, courses in humanities, social science, and science, and integrative courses that explore themes from the perspective of several different disciplines. All students, whether entering as first-year students or as transfers, will be required to fulfill the following general education requirements within the 120 credits counted towards the bachelor's degree. Transfer students may find that many of these courses or their equivalents have already been fulfilled through the State of Illinois General Education Core Curriculum as endorsed by the Illinois Board of Higher Education.

Students are obligated to familiarize themselves with both general education and major field requirements for graduation. New courses may be added which may fulfill these requirements. Students should check with an advisor or the assistant or associate dean of the College of Arts and Sciences for answers to specific questions.

### Great Ideas

This two-semester sequence is required only of students who enter Roosevelt University as first-year students (with less than 30 semester hours of previous college credit). Students in Great Ideas read and interpret selections of classic writings. These courses are offered as Liberal Studies 111 and Liberal Studies 112 and should be taken concurrently with English 101 or 102 during the student's first year at Roosevelt.

### Mathematics

All students must complete at least one mathematics course at the level of Math 110 or above. Students in many fields will need to fulfill this requirement early in their academic careers. Consult an advisor for the appropriate course.

### Natural Sciences

All students must complete at least two courses in the natural sciences, at least one of which is a four or more credit course that includes substantial hands-on laboratory or field experience. One course must be in the biological sciences and one course in the physical sciences. Courses at Roosevelt University that fulfill this requirement include the following:

Biological sciences with lab:

- Biol 111 Human Biology
- Biol 112 Environmental Biology
- Biol 115 Advanced Human Biology
- Biol 150 Science as a Way of Knowing

Physical sciences with lab:

Chem 100 Chemistry in Context  
Chem 101 General Chemistry I  
Chem 202 General Chemistry II  
Envs 105 Introduction to Environmental Science  
Geol 205 Environmental Geology  
Phys 201 Mechanics and Heat  
Phys 202 Optics and Electromagnetism

Physical sciences without lab

Chem 106 Forensic Science  
Geog 101 Physical Geography I  
Geog 102 Physical Geography II  
Geog 321 Climatology  
Envs 201 Hazardous Materials Management  
Envs 202 Pollution Control

Social Sciences

All students will take three social science courses. Disciplines listed in social sciences and humanities may be used for one or the other, but not both. Any African-American studies course not listed will be assigned to either social science or humanities at the discretion of the director of the African-American studies program or the dean of the College.

African-American Studies 101, 102, 202, 217, 228, 229, 240, 245, 327,  
335, 370, 371, 385  
Anthropology  
Economics  
History  
Journalism 201, 310, 312  
Philosophy  
Political Science  
Psychology  
Public Administration 300  
Sociology  
Women's and Gender Studies 210

Humanities

All students will take three humanities courses. Disciplines listed in social sciences and humanities may be used for one or the other, but not both. Any African-American studies course not listed will be assigned to either social science or humanities at the discretion of the director of the African-American studies program or the dean of the College.

African-American Studies 207, 228, 229, 370, 371  
Art History and Studio Art  
English (excluding 100, 101, 102)  
History  
Languages  
Music  
Philosophy  
Theatre  
Speech  
Women's and Gender Studies 210

#### World Societies and Cultures

At least one course in either social sciences, humanities or the student's major must focus on non-Western societies and cultures. Non-Western includes the study of developing nations in the world which do not reflect the mainstream of Western European and North American thought and practice, and also includes Latin America. Native American studies and cultures of racial minorities in the United States are included in this category. Courses used in the major may not also be used in partial fulfillment of social science or humanities.

#### Writing Social Justice in the Academy

Students must have completed the University Writing Requirement prior to taking this course. Grades below C are not considered passing. This course, grounded in pressing issues of social justice, will be offered in three versions: fine arts and humanities (Libs 201A), social sciences (Libs 201B), and natural and mathematical sciences (Libs 201C). Students may select the academic field of their major; or, if they have not yet decided on a major, they may choose the field of greatest interest to them. Students majoring or minoring in education will be able to read and write about issues of educational access or other topics germane to their interests. Students interested in business may read and write on topics such as economic policy and business ethics. All sections of the course will require readings from a custom-published anthology and multi-drafted research essays on topics related to social justice.

#### Roosevelt Signature Course

This is a 200-level course that emphasizes metropolitanism and cultural diversity. All students must take this course except those who transfer in 90 semester hours or more. Students must have completed English 101 and 102 requirements and between 30 and 90 hours of course credit prior to taking this course. The signature course may count toward the major with approval of an advisor, but it may not count towards other distribution requirements.

Signature courses include any 200-level class in liberal studies except Libs 201. New courses are added frequently. Students should consult each semester's Class Schedule for the most current listings.

### Majors

Students are urged to choose a major during their sophomore year. The major sequence must be approved by the student's academic advisor. Thereafter, the student should see the academic advisor regularly. Application for approval of major sequences should be made no later than the semester preceding the one in which the student expects to graduate. All seniors should make a final check of requirements for graduation during the advising period preceding their last semester.

### Minors

Although a minor is not always required for degree students in the College of Arts and Sciences, many students choose a minor for interest and/or compatibility with their major. Requirements for minors are listed under most subject headings. Students are also allowed to complete a minor outside the College of Arts and Sciences, including a minor in business through the College of Business Administration or a minor in theatre through the Chicago College of Performing Arts. Specific requirements for these minors are listed in the relevant section of this catalog. Students should see their academic advisor for recommendations and approval.

### Further requirements for BA and BS degrees in the College of Arts and Sciences

#### Grade point average

A regular student in good standing may become a candidate for the degree upon completion of 120 semester hours of work with an average grade of C or higher at Roosevelt University.

#### Grade point average in the major

At least 24 semester hours of courses in the major sequence must be passed with grades of C or higher. Students must check with the requirements of each discipline listed in this catalog.

#### Maximum hours in the major

At least 69 semester hours of credit (63 semester hours for BS candidates; 61 semester hours for BA in music candidates) must be completed outside the student's major. This rule does not apply to students with interdisciplinary majors.

#### Residency

At least 30 semester hours of acceptable work must be completed at Roosevelt University during the student's junior or senior year. Students should also check the residency requirements for their major.

#### Maximum hours transferred from a two-year institution

A maximum of 66 semester hours may be transferred from any accredited two-year institution.

#### Maximum hours in mathematics courses at the 100 level

A student may count no more than 12 semester hours of mathematics courses at the 100 level towards the 120 semester hours needed for graduation.

#### Maximum credit for ELP courses

A student may count no more than 12 semester hours of ELP courses (only after ELP 110 has been passed for an additional three semester hours).

#### Course work at the 099 level

Courses in English and mathematics at the 099 level do not count towards fulfillment of the enrollment requirement, nor do they earn credit towards the degree.

#### Course work at the 200 and 300 level

At least 60 semester hours of acceptable work must be completed in courses numbered 200 or higher of which at least 18 semester hours must be in courses numbered 300.

#### Courses taken on a non-degree-seeking basis

Not more than 15 semester hours earned as a non-degree-seeking student may be counted toward the degree.

#### Correspondence courses

Not more than 30 semester hours in correspondence study may be counted toward the degree.

#### External Studies Program

It is normally expected that degree-seeking students will take courses in class. However, the possibility of taking classes through Roosevelt University's External Studies Program does exist with the permission of the director of the school of the student's major (or, if the student has not declared a major, the director of the school of the course) and the dean. No course may be repeated externally. No English composition course may be taken by Arts and Science majors externally.

#### Professional courses

Professional courses may be counted toward the degree, subject to the following restrictions:

- n Not more than 30 semester hours from an accredited professional school of allied health, art, dentistry, engineering, law, medicine,

nursing, or seminary studies may be counted toward the degree. The student must be in good standing in his/her professional school. In general, professional courses in the fields named above that teach only manual skills will not be accepted.

- n Not more than 30 semester hours earned in an accredited school of business may be counted.
- n Not more than 30 semester hours of credit from an accredited school of music may be counted, including not more than 10 semester hours in applied music.
- n Courses in education are considered professional courses, and not more than 30 semester hours of credit may be counted toward the degree.

### Application for Graduation

Candidates for graduation are required to file an application for their degrees with the registrar early in the semester in which they expect to graduate. See the academic calendar for deadline dates.

### Double Major

A student may simultaneously complete major requirements in two disciplines, thereby attaining a double major within the prescribed 120 semester hours. All specific degree requirements must be met, and only one degree, either the BA or the BS, will be granted.

### Subsequent bachelor's degrees

After a student has been granted a bachelor's degree, he/she may receive another by completing at least an additional 30 semester hours. All specific requirements for each of the majors must be fully met, and the program for the subsequent bachelor's degree must include at least 30 semester hours of enrollment at Roosevelt that have not been counted for any other degree. Students whose first bachelor's degree is from a school other than Roosevelt must consult with the director of composition in the School of Liberal Studies about their need to fulfill the University Writing Requirement. Students whose first bachelor's degree is not from an accredited US university must see the assistant dean of the College to discuss deficiencies in general education requirements.

## The Roosevelt Scholars Program

The Roosevelt Scholars Program is designed to train the future leaders of the Chicago metropolitan area. This is an honors program that attracts some of Roosevelt's most talented undergraduates—students who wish to prepare for a career and also to explore the world of ideas. By bringing students and professors together in small classes and individual research settings, the Scholars Program fosters a strong feeling of community.



The Scholars Program offers an enriched academic curriculum of interdisciplinary courses. There are two concentrations in the Scholars Program, a metropolitan issues concentration and a science concentration. Faculty mentors help students shape their academic programs, and professional mentors—accomplished leaders—keep students on the path to success. Internships and research opportunities at leading business, cultural, medical, and government organizations are offered through the program. Generous merit scholarship support is available in addition to need-based financial aid. Admission to the program is competitive. Prospective students should submit the Roosevelt Scholars application. Please see the director of the Scholars Program for complete information.

### The Scholars Program curriculum

For students entering the Scholars Program as freshmen, the curriculum is a ten-course sequence culminating in an honors thesis, in which students pursue original research under the guidance of a faculty mentor. Students who enroll in the Scholars Program after their freshman year will not be required to take the full ten-course sequence. The program will be tailored specifically for each student depending upon his/her previous academic course work taken at Roosevelt or another institution. The courses include honors sections of the University general education curriculum as well as a variety of other honors-level studies. Students taking the metropolitan issues concentration will take the following courses together:

- Libs 111 Great Ideas I
- Libs 112 Great Ideas II
- Biol 150 Science as a Way of Knowing
- Eng 222 Writing About Ideas
- Two Roosevelt signature courses, one in the social sciences, and the other in the humanities
- Seminar on Chicago
- Seminar on a metropolitan issue
- Seminar on leadership and policy making
- Honors thesis

Students taking the science concentration will take the following courses together:

- Libs 111 Great Ideas I
- Libs 112 Great Ideas II
- Biol 150 Science as a Way of Knowing
- Eng 222 Writing about Ideas
- One Roosevelt Signature course
- Roots: Development of Great Ideas in Science
- Bearings: Ethical Reasoning and Practice in the Sciences
- The Cutting Edge: Science Journal Discussion Seminar

Science Practicum (chosen from health sciences hospital internship, biotechnology research internship, or environmental science internship)  
Honors thesis

The specific signature courses and seminar courses will vary by semester. Consult each semester's Class Schedule for the most current listings of honors courses.

## School of the Art Institute of Chicago

Qualified Roosevelt students may enroll for credit in courses at the School of the Art Institute of Chicago that are not available in the University's art program. Permission from the coordinator in art in the School of Liberal Studies is required. Students enrolled in the School of the Art Institute may, in turn, complete general education requirements and elective courses at Roosevelt University.

## Certificate Programs

The College of Arts and Sciences offers certificate programs in biotechnology, computer science, chemical science, geographic information systems, stress management (graduate), telecommunications, and web technology systems. See listings under psychology for the program in stress management, biology for the programs in biotechnology, chemistry for program in chemical science, geography for the program in geographic information systems, and computer science for programs in computer science, telecommunications, and web technology systems.

## Pre-Professional Programs

Preparation for admission to professional schools is provided in the following programs: allied health, pre-dental, pre-legal, pre-medical, and pre-pharmacy (freshman and sophomore years). Students wishing to fulfill the requirements for the BA or BS degree in addition to a professional degree should read the following statements carefully.

- n Some professional schools admit students who have not received an undergraduate degree. In these cases it is sometimes possible to attain a bachelor's degree upon completion of three years of work at Roosevelt University and one year in a professional school, provided the appropriate courses are chosen. Academic advisors will gladly help students plan their programs to meet requirements for both degrees in the least time possible.
- n Students who have successfully completed one or more years of course work and are in good standing in accredited professional schools

of dentistry, law, or medicine may apply up to 30 semester hours of professional work toward the degree requirements. This does not waive the major sequence requirement for graduation, but professional courses approved by the appropriate advisor may be included in the major sequences. Occasionally similar arrangements are approved by the dean of the college for students who take professional work in other accredited professional schools.

- n Nonprofessional courses taken in an accredited professional school may be applied under the rules governing admission with advanced standing.
- n Candidates offering 30 semester hours of professional work toward a degree must spend their junior or senior year enrolled at Roosevelt University.

## Actuarial Science

Actuarial science involves the application of probability theory and risk management to the areas of life and health insurance, property and casualty insurance, pension plans, and other employee benefit plans. Actuaries, who evaluate the long-term financial impact of these plans on both the issuing company and the purchaser or beneficiary of the plan, are employed by insurance companies, consulting firms, large corporations, and governmental agencies. The major in actuarial science emphasizes the mathematical theory that underlies risk evaluation. The courses will also aid the student in preparing for many of the professional societies' examinations.

Actuaries are expected to earn professional designation from either the Society of Actuaries (life and health insurance) or the Casualty Actuarial Society (property and casualty insurance). These societies administer a series of examinations which lead first to the designation of associate and then to fellow. The initial exams are the same for both societies.

### Major in Actuarial Science

The major sequence for both the Bachelor of Arts and Bachelor of Science degrees is given below. Advanced placement in mathematics is possible for well-prepared students. At least four courses in actuarial science must be completed at Roosevelt University. Both the BA and the BS degrees require a minor in financial theory.

### Requirements for a major in actuarial science leading to a BA or BS degree

Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 233 Calculus III .....	3

Acsc 217 Introduction to Probability and Statistics.....	3
Acsc 269 Theory of Interest.....	3
Acsc 300 Linear Algebra.....	3
Acsc 347 Probability and Statistics I.....	3
Acsc 348 Probability and Statistics II.....	3
Acsc 380 Actuarial Science Seminar.....	3
Two additional courses from the following list:.....	6
Acsc 238 Applied Statistical Methods	
Acsc 349 Regression and Time Series	
Acsc 369 Actuarial Mathematics I	
Acsc 370 Actuarial Mathematics II	
Acsc 377 Survival Models	
Acsc 378 Topics in Actuarial Mathematics	
Math 357 ANOVA and Experimental Design	

#### Actuarial science minor in finance theory

Acct 210 Introduction to Accounting I.....	3
Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Econ 323 Price Theory.....	3
Fin 311 Business Finance.....	3
Fin 321 Investments.....	3
Fin 387 Derivative Securities.....	3

#### Additional minor in an area of science for BS degree

For the BS degree, an additional minor sequence is required and must be in an area of science other than mathematics (computer science is recommended). All courses presented for the major and the minor must be completed with grades of C or higher. Repeated courses in the major or minor require specific approval. The average grade for all courses taken in actuarial science and mathematics must be C or higher. All credit must be approved by the faculty of the discipline to be applied toward the major. Appropriate supporting courses in accounting, computer science, economics and financial services are recommended.

## African-American Studies

Courses offered in the program enable students in any of the five colleges within the University to pursue undergraduate sequences for enrichment or specialization in African-American studies. Most courses offered through the St. Clair Drake Center for African and African-American Studies are interdisciplinary and may be used to satisfy general education requirements as well as electives. The objectives of the African-American studies are as follows:

- n To provide a fundamental understanding of those economic, social, cul-

tural, and political forces in Africa, Europe, and North and Latin America that have shaped the lives of African peoples within the African Diaspora, c. 1400 to the present.

- n To provide a center for basic and action research and the creation of materials that illustrate the problems and development of peoples of African descent in a variety of institutional settings. A major focus of the Drake Center continues to be the Chicago metropolitan area, including urban and suburban enclaves, most notably, the famed Black Metropolis.
- n To influence and support conversations about Africa by providing accurate, timely, and appropriate information on selected topics.
- n To provide multi-levels of understanding of unique problems of African Americans in contemporary American life and the space required to work toward solutions to those problems.
- n To place African-American men and women in the complex and often conflicted layers of American society and to show how each has contributed to the development of modern day American society.
- n To develop an expanding curriculum and a body of research that informs and influences policy that affects the lives of African Americans.

Students interested in African-American subjects are encouraged to take courses in African history and politics. Interested students should consult the director of the Drake Center as early in their academic careers as possible.

#### Major in African-American Studies leading to a BA degree

Thirty semester hours of course work are required. With the approval of the program director, students select 21 semester hours from African-American Studies courses, of which 12 semester hours must be at the 300 level. Also, nine semester hours must be selected from courses in African history, politics, and culture. At least 15 semester hours of course work must be taken at Roosevelt University. Students must complete all course work with a grade of C or higher. Courses listed below are only a portion of possible offerings. Check Class Schedules or advisor for additions.

#### African studies courses:

Afs 101 Introduction to African Studies .....	3
Afs 240 African History to 1500.....	3
Afs 335 Culture Change and Social Change in Africa.....	3
Afs 370 History of Africa after 1500 .....	3
Afs 371 Modern and Contemporary Africa .....	3

#### African-American studies courses:

Afs 102 Introduction to African-American Studies .....	3
Afs 202 African-American Social Psychology .....	3
Afs 207 Introduction to African-American Literature.....	3
Afs 228 African-American History, 1619-1877 .....	3
Afs 229 African-American History, 1877-1960 .....	3
Afs 232 African-American History, 1960-Present .....	3
Afs 317 The African-American Woman .....	3
Afs 318 The African-American Male in America .....	3
Afs 327 Race and Ethnic Relations .....	3
Afs 339 African-American Experience in the 20 <sup>th</sup> Century .....	3
Afs 365 Black Chicago's History & Culture, 1770-1960.....	3
Afs 382 Black Chicago's History & Culture Since 1960.....	3
Afs 385 Politics of African Americans .....	3

### Minor in African-American Studies

A minimum of 18 semester hours of course work are required, composed of courses completed from African and African-American Studies. At least 12 semester hours of course work must be completed at Roosevelt University. Students must complete all course work with a grade of C or higher.

## Allied Health Programs

(See also Biology)

The University offers a Bachelor of Science degree with a major in allied health in cooperation with a number of Chicago area hospitals and professional schools. The BS in Allied Health includes concentrations in the following areas:

- n Medical technology
- n Nuclear medicine technology
- n Radiation therapy technology

Allied health programs combine academic study and hospital clinical training. All Roosevelt University allied health affiliated clinical programs are accredited by the appropriate nationally recognized accrediting bodies. Students who successfully complete degree requirements, including clinical training, are eligible to sit for the external certification exams necessary to practice professionally. For descriptions of the individual programs see listings under biology.

## Anthropology

(See Sociology)

## Art

The art program consists of a series of undergraduate courses leading to a major in art history and a minor in fine art. The major in art history includes studio classes to provide practical experience in the making of art. Degree-seeking students in good standing may elect to take one advanced course per semester at the School of the Art Institute of Chicago (SAIC). Roosevelt University students register and receive credit for SAIC courses at Roosevelt. Registration is by consent only and requires the approval of both the SAIC and Roosevelt University art program advisors.

### Major in Art History leading to a BA degree

The major in art history consists of 11 art-related courses. Transfer students must complete at least five of these courses at Roosevelt University. No course in which the student receives a grade lower than C will be counted toward fulfillment of major. Up to three studio art courses may be counted outside the major in art history. French or German is recommended but not required.

Art 201 Ancient through Medieval Art .....	3
Art 202 Renaissance through Modern Art .....	3
Six advanced art history courses .....	18
Art 390 Internship .....	3
Two studio courses .....	6
Hist 111 The World to 1500.....	3
Hist 112 The World Since 1500 .....	3

### Minor in Fine Arts

The minor sequence in fine arts consists of six art courses. It must include Art 101 or one course in art history and one course at the 300 level. The remaining four or five courses should be chosen with an art advisor. All courses in the minor must be completed with a grade of C or better. At least two courses must be taken at Roosevelt University.

## Biology

Biology offers courses in the life sciences designed to teach students biological concepts and principles with emphasis on individual laboratory experiences. The curriculum provides a sound basis for professional training in biology, biotechnology, medicine, dentistry, veterinary medicine, allied health, and teaching, as well as general science education. Biology and allied health majors with strong academic backgrounds are encouraged to apply to the Roosevelt Scholars Program.

### Biology courses for general education

Two biology courses are open to nonmajors without prerequisites: Biol 111 Human Biology and Biol 112 Environmental Biology. Biol 111 and 112 may be taken in any order. Biol 150 Science as a Way of Knowing is open to all students

who have completed Math 100 or the equivalent. Biol 111, 112 and 150 each satisfies the general education requirement for a laboratory course in biological science. Biol 150 is a stand-alone course designed to give all students, majors and nonmajors, experiences that illustrate how scientists build an understanding of the natural world. Certain upper-level biology courses with few prerequisites, such as Biol 330 and 335, may also be used for general education science credit.

### Core sequence

All students majoring in biology must complete the core sequence: Biol 150, 201, 202, and 301. Students majoring in allied health with concentrations in medical technology, nuclear medicine technology, or radiation therapy must complete the core sequence: Biol 150, 201 and 301. Entering biology and allied health students will take a biology assessment test which will determine their placement in the core biology courses and which may exempt them from certain core courses. The core sequence provides a foundation in biology and the fundamentals of doing science. It also meets the needs of nonmajors who wish to prepare for admission to medical, dental, or veterinary school. Note that completion of this sequence also requires the completion of Chem 101, 201, 211, and Math 121. Students planning to take the biology or pre-professional core sequence should complete these prerequisites as early in their academic careers as possible.

### Regulations for Biology and Allied Health degrees

- n Minimum residence requirement of 30 semester hours in the junior and senior year; off-site allied health courses do not count towards this requirement.
- n At least 20 semester hours in acceptable biology, chemistry, or physics courses must be taken at Roosevelt University; not more than 15 semester hours of acceptable biology courses may be taken elsewhere.
- n Courses in biology must have been taken within the last eight years to be accepted for graduation.
- n Courses applying to the major must be taken on a letter grade basis; only grades of C or higher in biology, chemistry, mathematics, and physics will count toward the major or the minor.
- n No more than four semester hours of independent study in biology may be used to fulfill the requirements of the major.
- n A first course in human anatomy and physiology does not apply towards a major in biology; technical and/or clinical courses are not acceptable for transfer credit, except for programs in medical technology or nuclear medicine technology.
- n AP biology credit with a score of 3.0 or higher may apply toward the



major in biology or the general education requirement; consult with an advisor.

- n All biology and allied health majors must take a national standardized test in biology after completing the core courses and the majority of their biology electives, but prior to graduation. Eligible tests include the MCAT (for BS in biology) and the biology portion of the GRE (for BA or BS in biology or BS in allied health). Students should consult their academic advisor for instructions at least two semesters prior to graduation.

### Major in Biology leading to a BS degree

The BS in biology prepares students for jobs in government agencies such as EPA, OSHA, the Department of Agriculture, and for work as laboratory technicians in universities, hospitals, and industry. It also prepares students to teach biology at the secondary level and for admission to medical, dental, veterinary schools, and graduate programs in the life sciences.

Students who plan to teach biology in secondary school may qualify for Roosevelt University's recommendation to the Illinois State Board of Education for teacher certification. This program provides biology majors with the flexibility to teach mathematics and general science as well as biology in grades 6-12. Application for admission to the program must be made to the College of Education before the student begins the senior year (less than 90 semester hours). Requirements are listed under secondary teacher education. Students interested in this option should see an advisor in the College of Education for specific course selections.

#### Required courses:

Biol 150 Science as a Way of Knowing .....	4
Biol 201 Organismic Biology .....	5
Biol 202 Ecology, Evolution, and Genetics .....	5
Biol 301 Cellular and Molecular Biology .....	5
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Math 121 College Algebra .....	3
Math 122 Precalculus.....	3
Math 217 Introduction to Probability and Statistics.....	3
Phys 201 Mechanics and Heat .....	5
Phys 202 Wave Motion, Optics, and Electromagnetism .....	5

Electives chosen from the list below to complete a minimum of 35 semester hours in

biology with at least one 300-level laboratory course beyond Biol 301:

Biol 115 Advanced Human Biology .....	4
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Biol 242 Animal Behavior .....	3
Biol 302 Diversity and Evolution .....	3
Biol 304 Histology and Ultrastructure.....	5
Biol 310 Physiological Psychology .....	3
Biol 315 Ecology.....	5
Biol 317 Behavioral Ecology .....	3
Biol 324 Marine Biology .....	3
Biol 330 Wetlands Delineation .....	3
Biol 335 Great Lakes .....	3
Biol 338 Organ System Physiology .....	3
Biol 351 General Genetics .....	5
Biol 353 Molecular Biology .....	5
Biol 355 Biochemistry .....	5
Biol 356 Developmental Biology .....	3
Biol 358 Cell Biology.....	5
Biol 360 Microbiology.....	5
Biol 361 Information Technology for the Sciences.....	3
Biol 367 Immunology .....	5
Biol 371 Biology of Aging .....	3
Biol 391 Medical Internship.....	3

Recommended courses:

Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 238 Applied Statistical Methods .....	3

Recommended alternative:

Phys 231 Mechanics and Heat (with Calculus) .....	6
Phys 232 Waves, Light, and Magnetism (with Calculus).....	6
General education requirements, UWR, and electives to total.....	120

Major in Biology leading to a BA degree

The BA in biology is an option for students who wish an in-depth humanistic education in biology without completing all of the biology, mathematics, chemistry, and physics courses required for the BS in biology. This degree does not prepare students fully for postgraduate study in the life sciences or health professions. Requirements for the BA degree include 30 semester hours of acceptable credits in biology and at least one 300-level laboratory course beyond Biol 301. Students must also complete three courses that cover the interface between the sciences and other disciplines, such as history or philosophy, or that concern the connections of science and technology with social, political, or moral issues.

Required courses:

Biol 150 Science as a Way of Knowing .....	4
Biol 201 Organismic Biology .....	5

Biol 202 Ecology, Evolution, and Genetics .....	5
Biol 301 Cellular and Molecular Biology .....	5
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Math 121 Contemporary College Algebra .....	3
Math 217 Introduction to Probability and Statistics.....	3

Electives chosen from the list below to complete a minimum of 30 semester hours in biology:

Biol 115 Advanced Human Biology .....	4
Biol 242 Animal Behavior .....	3
Biol 302 Diversity and Evolution.....	3
Biol 304 Histology and Ultrastructure.....	5
Biol 310 Physiological Psychology .....	3
Biol 315 Ecology.....	5
Biol 317 Behavioral Ecology .....	3
Biol 324 Marine Biology .....	3
Biol 330 Wetlands Delineation .....	3
Biol 335 Great Lakes .....	3
Biol 338 Organ System Physiology .....	3
Biol 351 General Genetics .....	3
Biol 353 Molecular Biology .....	5
Biol 356 Developmental Biology .....	3
Biol 358 Cell Biology.....	5
Biol 360 Microbiology.....	5
Biol 361 Information Technology for the Sciences.....	3
Biol 367 Immunology .....	5
Biol 371 Biology of Aging .....	3
Biol 391 Medical Internship.....	3

Electives chosen from the list below or in consultation with an advisor:

Envs 201 Hazardous Materials Management .....	3
Envs 202 Pollution Control.....	3
Geog 314 Introduction to Geographic Information Systems.....	4
Geog 344 World Resource Management and Conservation .....	3
Geog 350 Problems of the Urban Environment.....	3
Libs 331 Technology and Human Values .....	3
Libs 332 Science, Technology, and Human Values .....	3
Libs 391 AIDS: Private Liberties, Public Threats .....	3
Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 300 Numerical Analysis.....	

Phil 314 Philosophy of Science.....	3
Phil 334 Professional Ethics .....	3
Pos 241 Environmental Problems of Metropolitan Areas.....	3
Soc 345 The Study of Populations.....	3
Soc 349 Environmental Sociology .....	3
General Education Requirements, University Writing Requirement, and electives to total.....	120

### Major in Allied Health leading to a BS degree

#### Concentration In Medical Technology

Medical technologists perform a variety of tests on blood, tissues, and body fluids using the techniques of hematology, microbiology, immunohematology, clinical chemistry, and urinalysis. They work in conjunction with pathologists, physicians, or scientists in hospital laboratories.

Medical technology students complete 90 semester hours of academic course work including the University Writing Requirement and the Arts and Sciences general education requirements as well as the concentration requirements outlined below. They complete their last 30 semester hours in a one-year, full-time, daytime clinical training program at the Evanston Northwestern Healthcare Corporation Medical Technology/Clinical Laboratory Science Program (see clinical courses for medical technology below). Upon successful completion of the clinical program, students receive a certificate in medical technology from the clinical program, a BS in allied health from the University, and are eligible to sit for ASCP certification.

Admission to the clinical training program is at the discretion of the clinical affiliate. Students are not guaranteed admission. Students in clinical training are registered through Roosevelt University.

ASCP certified medical laboratory technicians or students with ASCP-approved equivalent training may be eligible for advanced standing and allowed to complete the BS in allied health. Contact the School of Science and Mathematics for details.

#### Required courses in the concentration:

Biol 150 Science as a Way of Knowing .....	4
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular Biology .....	5
Biol 360 Microbiology.....	5
Biol 367 Immunology .....	5
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Math 121 College Algebra .....	3

Math 217 Introduction to Probability and Statistics.....	3
Clinical courses.....	30

General education requirements; University Writing Requirement;  
electives; professional, education, and administration courses to total  
120

Recommended courses (choose two):

Badm 101 Introduction to Business .....	3
Badm 202 Introduction to Business Computing .....	3
Cst 100 PC Software Packages.....	3
Cst 101 Overview of Information Technology .....	3
Padm 351 Introduction to Health Sciences .....	3
Phil 334 Biomedical Ethics .....	3
Pos 391 AIDS: Science, Culture, Power.....	3
Soc 339 The Sociology of Death and Dying.....	3
Soc 353 Health, Illness, and Medicine in American Society.....	3

Clinical courses in medical technology:

Alh 310 Orientation to Clinical Laboratory Science  
Alh 311 Phlebotomy  
Alh 312 Body Fluids  
Alh 320 Clinical Hematology/Coagulation  
Alh 321 Clinical Microbiology  
Alh 322 Clinical Microbiology  
Alh 323 Clinical Immunopathology  
Alh 324 Clinical Immunohematology/Transfusion Medicine  
Alh 326 Clinical Parasitology/Mycology/Virology  
Alh 328 Clinical Laboratory Science Management/Education

Major in Allied Health leading to a BS degree  
Concentration in Nuclear Medicine Technology

Nuclear medicine technologists are involved in direct patient care. They work with physicians to administer radioactive and stable nuclides for the diagnosis of disease and to provide therapy using unsealed radioactive sources. Most nuclear medicine technologists work in hospitals. Students interested in allied health careers should seek early guidance from a biology advisor. This is particularly true for transfer students who will face a very tight schedule in some of these programs.

Nuclear medicine technology students complete 90 semester hours of academic course work including the University Writing Requirement and the Arts and Sciences general education requirements as well as the concentration requirements outlined below. They complete their last 30 semester hours in a one-year, full-time, daytime clinical training program at Edward Hines, Jr., Veterans Hospital or Northwestern Memorial Hospital. Upon successful completion of the

clinical program, students receive a certificate in nuclear medicine technology from the hospital, a BS in allied health from the University, and eligibility to sit for ARRT (N) certification.

Admission to clinical training is at the discretion of the hospital. Students are not guaranteed admission. Students in clinical training are registered through Roosevelt University and pay Roosevelt University tuition. There is no additional tuition charge for the clinical portion of the program. Nuclear medicine technologists holding a certificate from an accredited program may be eligible for advanced standing and exemption from further clinical training. Contact the School of Science and Mathematics for details.

Required courses in the concentration:

Biol 111 Human Biology .....	4
Biol 150 Science as a Way of Knowing .....	4
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular Biology .....	5
Biol 115 Advanced Human Biology or Biol 367 Immunology .....	4 - 5
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Math 121 College Algebra .....	3
Math 122 Precalculus.....	3
Math 217 Introduction to Probability and Statistics.....	3
Phys 201 Mechanics and Heat .....	5
Phys 202 Wave Motion, Optics, and Electromagnetism.....	5
*Clinical Courses .....	30
General education requirements, University Writing Requirement, electives to total .....	120

\*Prereq: Satisfactory completion of preclinical course work and admission to clinical program.

Clinical courses for nuclear medicine technology:

- Alh 340 Management and Methods of Patient Care
- Alh 341 Radiation Biology
- Alh 342 Radiation Detection and Instrumentation
- Alh 343 Computer Applications
- Alh 344 Diagnostic Nuclear Imaging Practicum I
- Alh 345 Radiation Safety and Protection
- Alh 346 Radionuclide Chemistry and Radiopharmacy
- Alh 347 Clinical Correlation
- Alh 348 Diagnostic Nuclear Imaging Practicum II
- Alh 349 Clinical Nuclear Imaging Procedures

- Alh 350 Nuclear Physics
- Alh 351 Technical Mathematics
- Alh 395 Independent Study

Major in Allied Health leading to a BS degree

Concentration in radiation therapy technology

Radiation therapy technologists are involved in direct patient care. Under the supervision of radiation oncologists, they use high energy X-rays, electron beams, or radioactive isotopes to kill cancer cells. Radiation therapists must be able to interact compassionately and effectively with people who range from healthy to terminally ill.

Radiation therapy technology students complete 90 semester hours of academic course work including the University Writing Requirement and the Arts and Sciences general education requirements as well as the concentration requirements outlined below. They complete their last 30 semester hours in a one-year, full-time daytime clinical training program at Northwestern Memorial Hospital. Upon successful completion of the clinical program, students receive a certificate in nuclear medicine technology from the hospital, a BS in allied health from the University, and eligibility to sit for ARRT (T) certification. Admission to clinical training is at the discretion of the hospital. Students are not guaranteed admission. Students in clinical training are registered through Roosevelt University and pay Roosevelt University tuition.

Required courses in the concentration:

Biol 150 Science as a Way of Knowing .....	4
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular biology .....	5
Biol 111 Human Biology .....	4
Biol 115 Advanced Human Biology	
or Biol 367 Immunology .....	4-5
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Phys 201 Mechanics and Heat .....	5
Phys 202 Electromagnetism and Optics .....	5
Math 121 College Algebra .....	3
Math 122 Precalculus .....	3
Math 217 Introduction to Probability and Statistics.....	3
*Clinical courses.....	30
General education requirements, University Writing Requirement, and electives to total .....	120

\*Prereq: Satisfactory completion of pre-clinical course work and admission to

clinical program.

Clinical courses for radiation therapy technology:

- Alh 313 Management and Methods of Patient Care I
- Alh 315 Management and Patient Care II
- Alh 316 Pathology and Sectional Anatomy
- Alh 317 Radiation Physics
- Alh 318 Radiation Therapy Physics
- Alh 352 Radiation Safety and Protection
- Alh 353 Medical Imaging and Processing
- Alh 354 Principles and Practice of Radiation Therapy I
- Alh 355 Principles and Practice of Radiation Therapy II
- Alh 357 Clinical Practicum I
- Alh 358 Clinical Practicum II
- Alh 360 Technical Mathematics
- Alh 361 Treatment Planning
- Alh 362 Operational Issues in Radiation Therapy

### Minor in Biology

Students may earn a minor in biology by successfully completing four biology courses and at least 15 semester hours in biology. For nonscience majors, recommended courses include Biol 111, 112, 115, 150, 242, 302, and 324. None of these courses has a chemistry prerequisite. For science majors and other students with appropriate chemistry background, recommended courses include three courses from the biology core sequence Biol 150, 201, 202, and 301 and one additional biology course. Students who have transferred three or more biology courses may earn a minor in biology by completing at least two additional biology courses (at least one with laboratory) totaling at least eight semester hours at Roosevelt University. Students must complete all courses counted towards the biology minor with a grade of C or higher. At least two courses must be taken at Roosevelt University.

### Certificates

In fulfilling the electives towards the biology degree, students may qualify to receive the certificate in biotechnology or chemical science. See the sections on biotechnology and chemical science in this catalog.

## Biotechnology

Recombinant DNA technology has revolutionized the biotechnology industry leading to tremendous advances and opportunities in every field in biology. New discoveries in medicine have led to successful attempts to cure hereditary diseases and cancer through gene therapy and immunotherapy. In agriculture, biotechnology has led to a multitude of plants resistant to disease, drought, and targeted herbicides. In the environmental sciences, bioremediation by genetically altered bacteria is used to clean up polluted sites. Biotechnology is used in



law enforcement for the identification of individuals through DNA fingerprinting. Biotechnological techniques are now fundamental to almost every area of basic research in the biological sciences.

### Certificate in Biotechnology

This program is designed to provide students with extensive laboratory training in molecular biology, cell biology, microbiology, immunology, and biochemistry. A student holding a certificate may obtain employment in the biotechnology industry, pharmaceutical companies, university research laboratories, forensic laboratories, or medical research centers.

The 15-semester-hour certificate is available as an option for undergraduate biology, chemistry, and environmental science majors and is appropriate for post-baccalaureate students who wish to enhance their professional skills or prepare for graduate study in medicine or related fields. The component courses are available for graduate credit to students with post-baccalaureate standing and may be used with consent towards partial fulfillment of the requirements for the MS in chemistry.

### Prerequisites

To register for courses in the biotechnology certificate program, students must have successfully completed Biol 301 or the equivalent and Chem 211.

### Requirements

All courses submitted for the certificate must be completed at Roosevelt University and passed with a grade of C or higher. Students must successfully complete practical laboratory examinations in each course submitted for the certificate. Because of the rapid pace of technological change in this field, courses submitted for the certificate must have been completed within five calendar years prior to receiving the certificate. Students must choose three of the following five courses:

Biol 353 Molecular Biology .....	5
Biol 355 Biochemistry .....	5
Biol 358 Cell Biology.....	5
Biol 360 Microbiology.....	5
Biol 367 Immunology .....	5

### Scheduling and time-to-certificate

Courses in the certificate program may be taken one or two at a time so that the certificate may be completed in one or two academic years. Well prepared students who begin in the fall semester may receive a certificate at the end of the following spring semester. Classes are scheduled in the evenings or on weekends for the convenience of working students.

## Chemistry

The chemistry program offers a Bachelor of Science degree that is approved by the American Chemical Society and a Bachelor of Arts degree. Graduation with the approved BS degree meets the eligibility requirements for membership in the American Chemical Society. Both programs provide sound training in the fundamental principles and the basic experimental techniques for the understanding of the interaction of matter.

The BS degree is appropriate for those students who will continue to study or work in chemistry or the natural sciences. The BA degree is a useful option for those students who wish a strong scientific background but who are considering taking a wider variety of courses or pursuing study or work in another area such as business, medicine, government, or law. Course requirements are different for each degree. Chemistry majors interested in teaching science in the high schools should meet with an advisor early in their program to plan an appropriate course sequence.

Chemistry majors with strong academic backgrounds are encouraged to apply to the Roosevelt Scholars Program.

### Certificate

In fulfilling the electives toward the chemistry degree, students may qualify to receive the certificate in biotechnology. A certificate in chemical science is also available to science students in related fields who wish to obtain extensive training in chemistry but less than what is required for a degree. See the sections on biotechnology and chemical science in this catalog for details.

### Regulations for degrees in chemistry

- n Courses applying to the major must be taken on a letter grade basis.
- n All chemistry, biology, physics, mathematics, and computer science courses must be passed with a grade of C or higher.
- n At least 25 semester hours of the required chemistry courses must be completed at Roosevelt University.
- n Chemistry courses must be taken within eight years of graduation to be accepted for credit without examination.
- n Undergraduate research with a faculty member is recommended for graduation.
- n Entering students with a score of at least three on the AP chemistry placement examination will receive credit for Chem 101.

### Requirements for a Major in Chemistry leading to a BA degree

Math 231 Calculus I.....	4
Math 232 Calculus II.....	4
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II.....	4
Chem 211 Organic Chemistry I.....	4

Chem 212 Organic Chemistry II .....	4
Chem 237 Quantitative Environmental Analysis .....	3
Chem 321 Physical Chemistry I .....	3
Chem 322 Physical Chemistry II .....	3
Chem 337 Analytical Chemistry .....	4
Chem 341 Inorganic Chemistry .....	3
One 300-level course in chemistry or biology .....	3-5
One 300-level advanced laboratory course chosen from the list below	4
Chem 313 Advanced Organic Chemistry Laboratory	
Chem 325 Physical Chemistry Laboratory	
Chem 337 Instrumental Analysis	
Chem 347 Advanced Inorganic Chemistry Laboratory	
Phys 231 Mechanics and Thermodynamics .....	6
Phys 232 Waves, Light, and Electromagnetism .....	6
General education, University Writing Requirement, and electives to total	
120	

#### Requirements for a Major in Chemistry leading to a BS degree

Math 231 Calculus I .....	4
Math 232 Calculus II .....	4
One other mathematics course in calculus, linear algebra, statistics, or differential equations .....	3
Chem 101 General Chemistry I .....	4
Chem 202 General Chemistry II .....	4
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Chem 313 Advanced Organic Chemistry Laboratory or Chem 347 Advanced Inorganic Chemistry Laboratory .....	4
Chem 321 Physical Chemistry I .....	3
Chem 322 Physical Chemistry II .....	3
Chem 325 Physical Chemistry Laboratory .....	4
Chem 337 Instrumental Analysis .....	4
Chem 341 Inorganic Chemistry .....	3
Chem 355 Biochemistry .....	3
Chem 393 Chemistry Seminar .....	1
Phys 231 Mechanics and Thermodynamics .....	6
Phys 232 Waves, Light, and Electromagnetism .....	6
Two 300-level courses in chemistry, biology, physics, mathematics, or computer science, including at least one laboratory course	7-9
General education, University Writing Requirement, and electives to total	
120	

#### Minor in Chemistry

Students may earn a minor in chemistry by completing the courses listed below for a total of 19 semester hours.

Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	4
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Chem 237 Quantitative Environmental Analysis .....	3

At least eight semester hours must be completed at Roosevelt University. Students who have transferred three or more equivalent courses may earn a minor in chemistry by completing at least two additional chemistry courses numbered 200 or above and totaling at least eight semester hours at Roosevelt University. Students must complete all courses counted towards the chemistry minor with a grade of C or higher.

## Computer Science, Telecommunications, and Web Technology Systems

### Computer Science

The School of Computer Science and Telecommunications offers six majors and three certificate programs. Courses are also provided for computer literacy. All courses presented for the major and minor must be approved in accordance with approved curriculum check sheets and must be passed with a grade of C or higher. A double major in computer science and telecommunications is not offered because of the aligned nature of these two programs. For additional information, please check the website at <http://cs.roosevelt.edu>.

### Certificates in Computer Science, Telecommunications, and Web Technology Systems

These certificate programs are designed for those who want to gain enough knowledge quickly to immediately enhance their employment opportunities in the fast-growing information technology arena. A major advantage of this program is that courses earned in these certificates may be later applied towards a bachelor's degree.

Each certificate in computer science, telecommunications, and web technology systems consists of seven computer science and telecommunications courses plus one or two math prerequisites. See a computer science advisor for more details, including a list of the relevant courses.

### Major in Computer Science leading to a BA degree

The applications/business-oriented track is designed for those seeking careers in the expanding information technology field who do not wish to follow the traditional computer science curriculum with its emphasis on mathematics and computing systems theory. These individuals often get jobs in emerging areas such as electronic commerce, web design, PC support, software training, and systems integration. They may also pursue careers in more established roles such as business analyst, applications programmer, or database administrator. A minor in mathematics or business is recommended for the applications track.

The systems/technical track is a middle road between the applications track and the BS degree. It includes more mathematics and computer systems theory than the BA applications track and less than the BS degree. A minor in mathematics is required for the systems track.

At least 30 semester hours of credit must be taken at Roosevelt University, with at least 15 of these in the computer science major; at most 60 semester hours may be taken at the 100 level. At least 74 semester hours must be in non-computing courses. Students planning to pursue an MS in computer science should take Math 231, 245, and 300, as well as Cst 280 in their curriculum.

Requirements for the computer science major leading to a BA degree

Applications/Business track

Math 121 College Algebra .....	3
Cst 150 Computer Science I.....	4
Cst 261 Micro Structure and Assembler.....	3
Cst 270 Systems Analysis and Design .....	3
Cst 333 Database Design.....	3
Cst 246 Data Communications.....	3
Cst 263 Visual BASIC Programming I.....	3
Cst 370 Software Engineering .....	3
Cst 373 Visual BASIC Programming II.....	3
Four computer science electives at the 300 level.....	12

Requirements for the computer science major leading to a BA degree

Systems/Technical track

Math 121 College Algebra .....	3
Cst 150 Computer Science I.....	4
Cst 261 Micro Structure and Assembler.....	3
Cst 270 Systems Analysis and Design .....	3
Cst 333 Database Design.....	3
Cst 250 Computer Science II.....	3
Cst 280 Computer Science III Data Structures .....	3
Cst 317 Operating Systems Concepts.....	3
Cst 340 Computer Architecture .....	3
Cst 343 OOP with Visual Studio.net .....	3
Three computer science electives at the 300 level .....	9

Minor in mathematics for the BA in computer science

Math 122 Precalculus.....	3
Math 217 Probability and Statistics .....	3

Math 231 Calculus I.....	3
Math 245 Discrete Structures.....	3
One course in mathematics above 203.....	3

#### Minor in business for the BA in computer science

Acct 210 Intro to Accounting I.....	3
Acct 211 Intro to Accounting II.....	3
Acct 201 Business Law I.....	3
Three 300-level business electives.....	9

#### Major in Computer Science leading to a BS degree

This program follows the traditional computer science curriculum with its emphasis on mathematics and computing systems theory. It prepares students to pursue careers in highly technical areas such as systems programming and software engineering, or to go on to pursue graduate degrees in computer science or telecommunications.

A minimum of 30 semester hours must be taken at Roosevelt University, with at least 15 of these in the computer science major; at most 60 semester hours may be applied to the degree at the 100 level. At least 74 semester hours must be in non-computing courses. A minor in mathematics is required.

This degree has a specific natural science requirement. Students must take a sequence of two laboratory courses in natural science and one additional course in natural science.

#### Requirements for the major in computer science leading to a BS degree

Cst 150 Computer Science I.....	4
Cst 250 Computer Science II.....	4
Cst 261 Micro Structure and Assembler.....	3
Cst 280 Computer Science III / Data Structures.....	3
Cst 317 Operating Systems.....	3
Cst 333 Database Design.....	3
Cst 337 Theory of Computation.....	3
Cst 340 Computer Architecture.....	3
Cst 370 Software Engineering.....	3
Cst 372 Programming Languages.....	3
Cst 382 Computer Graphics or Cst 387 Advanced Data Structures ...	3
Cst 371 Distributed Databases or Cst 386 Information Retrieval.....	3
Cst 357 Systems Programming or Cst 365 Web Programming I or Cst 376 Web Programming II.....	3
Cst 340 Computer Architecture or Cst 350 Boolean Algebra and Switching	3

#### Minor in Mathematics for the BS in Computer Science

Math 122 Precalculus.....	3
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Math 217 Probability and Statistics .....	3
Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 245 Discrete Structures.....	3
Math 300 Linear Algebra .....	3

### Minor in Computer Science

Five courses are required for a minor in computer science. In addition, any mathematics prerequisites for these courses, such as Math 121, must be taken as part of the student’s undergraduate degree program. All five of these courses must be passed with a grade of C or higher. At least two courses must be taken at Roosevelt University.

Cst 150 Computer Science I.....	4
Cst 263 Visual BASIC I.....	3
Cst 270 Systems Analysis and Design .....	3
Cst 333 Database Design.....	3
One Cst elective at the 300 level.....	3

### Telecommunications

The use of computers and digital voice and data communications are revolutionizing the way people and businesses work. Advanced information technologies are beginning to change people’s personal lives as well as in areas ranging from banking to shopping and entertainment. Telecommunications technologies lie at the heart of many of these amazing changes. Businesses are now in need of workers who can develop and manage these new technologies—people with open minds, who can quickly learn new concepts and skills. More and more, this means people with a college education.

### Major in Telecommunications leading to a BA degree

This program parallels the structure of the BA in computer science in that it allows the choice between an applications/managerial and a systems/technical track. The first track prepares individuals for careers as telecommunications analysts, project managers, technical trainers, sales representatives, business strategy consultants, and network support personnel. The second track leads to careers as network administrators, analysts, designers, and telecommunications technology consultants. The curriculum begins with a foundation in computer science and then moves on to cover topics such as voice and data communications technologies; network analysis and design; telecommunications management, regulations, and policies; traffic engineering; and business case studies. A minor in mathematics or business is recommended for the applications/managerial track; a minor in mathematics is required for the systems/technical track.

All courses in the major and minor must be completed with a grade of C or higher. A minimum of 30 semester hours must be taken at Roosevelt Univer-

sity, with at least 15 of these in the major; at most 60 semester hours may be counted toward the degree at the 100 level. At least 74 semester hours must be in non-computing courses. Students planning to pursue an MS in telecommunications should take Math 231 and 245 as well as Cst 280.

#### Requirements for the telecommunications major leading to a BA degree

##### Applications/Managerial track

Math 121 College Algebra .....	3
Acct 210 Intro to Accounting I.....	3
Cst 150 Computer Science I.....	4
Cst 246 Data Communications.....	3
Cst 290 Telecommunications Systems.....	3
Cst 346 Advanced Data Communications.....	3
Cst 354 Local Area Networks.....	3
Cst 263 Visual BASIC Programming I .....	3
Cst 270 Systems Analysis and Design .....	3
Cst 331 Telecommunications Systems Analysis .....	3
Cst 332 Telecommunications Management .....	3
Cst 362 Telecommunications: Regulations and Policies .....	3
Three electives at the 300 level .....	9

#### Requirements for the telecommunications major leading to a BA degree

##### Systems/Technical track

Math 121 College Algebra .....	3
Acct 210 Intro to Accounting I.....	3
Cst 150 Computer Science I.....	4
Cst 246 Data Communications.....	3
Cst 290 Telecommunications Systems.....	3
Cst 346 Advanced Data Communications.....	3
Cst 354 Local Area Networks.....	3
Cst 250 Computer Science II.....	4
Cst 280 Computer Science III: Data Structures .....	3
Cst 317 Operating Systems Concepts.....	3
Cst 350 Boolean Algebra and Switching Theory.....	3
Cst 352 Network Design and Analysis I.....	3
Three electives at the 300 level .....	9

##### Minor in mathematics for BA in telecommunications

Math 122 Precalculus.....	3
Math 217 Probability and Statistics .....	3
Math 245 Discrete Structures.....	3
Math 231 Calculus I.....	4
One math elective at the 203 level or above.....	3



Minor in business for the BA in telecommunications

Acct 211 Intro to Accounting II.....	3
Acct 201 Business Law I.....	3
Three electives in business at the 300 level.....	9

Major in Telecommunications leading to a BS degree

This program parallels the major in computer science leading to a BS degree in its emphasis on mathematics and telecommunications systems theory. It prepares individuals to pursue careers in highly technical areas such as systems programming, network design, and systems engineering, or to go on to pursue graduate degrees in computer science or telecommunications.

All courses in the major and minor must be completed with a grade of C or higher. A minimum of 30 semester hours must be taken at Roosevelt University, with at least 15 of these in the major; at most 60 semester hours at the 100 level may be counted towards the degree. At least 74 semester hours must be in non-computing courses. A minor in math is required.

Requirements for the major in telecommunications leading to a BS degree

Cst 150 Computer Science I.....	4
Cst 250 Computer Science II.....	4
Cst 246 Data Communications.....	3
Cst 261 Micro Structure & Assembler.....	3
Cst 280 Computer Science III/Data Structures.....	3
Cst 317 Operating Systems.....	3
Cst 340 or 350 Computer Architecture or Switching .....	3
Cst 346 Advanced Data Communications.....	3
Cst 352 Network Design and Analysis I .....	3
Cst 354 Local Area Networks.....	3
Three Cst electives at the 300 level.....	9

Minor in mathematics for the BS in telecommunications

Math 121 College Algebra .....	3
Math 122 Precalculus.....	3
Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 217 Probability and Statistics .....	3
Math 245 Discrete Structures.....	3
Math 300 Linear Algebra .....	3

Minor in Telecommunications

Five courses are required for a minor in telecommunications. In addition, any mathematics prerequisites for these courses, such as Math 121, must be taken as part of the student's undergraduate degree program. All five of these courses must be passed with a grade of C or higher. At least two courses must be taken at Roosevelt University.

Cst 150 Computer Science I.....	4
Cst 246 Data Communications.....	3
Cst 290 Telecommunications Systems.....	3
Cst 346 Advanced Data Communications.....	3
Cst 354 Local Area Networks.....	3

### Web Technology Systems

In just a few short years, web jobs have grown tremendously. Every business from the Fortune 500 to the neighborhood plumber is using e-commerce to reach customers and do business. Businesses need the people who can develop the software for e-commerce, run the program, and market it. Job-seekers with the right experience, training, and enthusiasm are in high demand. Developing skills, working with team members, and keeping up with training are vital in the workplace, especially with rapid changes in technology.

### Major in Web Technology Systems (WTS) leading to a BA degree

The WTS major has the same structure as the major in computer science leading to a BA; however, students have a great deal of flexibility in choosing the courses in the major sequence. The combination of courses covers important areas of web programming and the workings of the World Wide Web. Students will receive training in Java, HTML, Perl, PHP, CGI and ASP. Careers in this degree program include e-commerce programmer, Internet strategist, and web system analyst.

All courses in the major and minor must be completed with a grade of C or higher. A minimum of 30 semester hours must be taken at Roosevelt University with at least 15 of these in the major. At most 60 semester hours at the 100 level may be counted toward the degree; at least 74 semester hours must be in non-computing courses. A minor in mathematics or business is recommended.

### Requirements for the WTS major leading to a BA degree

Math 121 College Algebra .....	3
Math 245 Discrete Structures.....	3
Cst 150 Computer Science I.....	4
Cst 250 Computer Science II.....	4
Cst 365 Web Programming I.....	3
Cst 376 Web Programming II.....	3
Cst 333 Database Design.....	3
Cst 364 Data Structures with Java II.....	3
Six electives in WTS from the following: Cst 317, 318, 352, 354, 367, 368, 369, 372, 382, 386.....	18

### Minor in mathematics for the BA in WTS

Math 122 Precalculus.....	3
Math 217 Probability and Statistics .....	3

Math 231 Calculus I.....	4
One math elective at the 203 level or above.....	3

**Minor in business for the BA in WTS**

Acct 210 Intro to Accounting I.....	3
Acct 211 Intro to Accounting II.....	3
Acct 201 Business Law I.....	3
Three business electives at the 300 level.....	9

**Major in Web Technology Systems (WTS) leading to a BS degree**

This curriculum prepares students to work in the very technical side of the web field such as Internet engineer, server administrator, web technologist, and web system administrator. A minor in mathematics is required.

All courses in the major and minor must be completed with a grade of C or higher. A minimum of 30 semester hours must be taken at Roosevelt University with at least 15 of these in the major; at most 60 semester hours at the 100 level may be counted towards the degree. At least 74 semester hours must be in non-computing courses.

**Requirements for the WTS Major leading to a BS degree**

Cst 150 Computer Science I.....	4
Cst 250 Computer Science II.....	4
Cst 318 Introduction to UNIX.....	3
Cst 333 Database Design.....	3
Cst 365 Web Programming I.....	3
Cst 376 Web Programming II.....	3
Cst 367 Web Database Applications.....	3
Cst 386 Information Retrieval .....	3
Three Cst electives chosen from the following: Cst 317, 352, 354, 368, 369, 372, 382 .....	9

**Minor in mathematics for the BS in WTS**

Math 121 College Algebra or Math 217 Introduction to Probabilities and Statistics .....	3
Math 122 Precalculus.....	3
Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 245 Discrete Structures.....	3
Math 300 Linear Algebra .....	3

**Economics**

Economics at Roosevelt University prepares students to analyze economic phenomena in fresh and innovative ways. Students receive a broad-based view of contemporary economics with special emphasis on nontraditional approaches

to theory and policy. Students are challenged to be critical of existing institutions and seek new solutions to problems of economic justice, poverty, and inequality. Economics graduates typically pursue careers in business, public service, law, teaching, and research.

### Major in Economics Leading to a BA Degree

Majors must complete a minimum of eleven courses in economics with grades of C or higher. At least nine semester hours in economics must be completed at Roosevelt University. Math 116 or 121 is a prerequisite for Econ 234. Admission to Econ 390 is limited to economics majors who have completed five core courses. Because this seminar is not offered every semester, students are advised to plan their programs carefully.

#### Core courses:

Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Econ 210 Money and Banking .....	3
Econ 234 Elementary Statistics .....	3
Econ 321 Income and Employment Theory .....	3
Econ 323 Price Theory .....	3
Econ 390 Economic Theory and Policy Seminar .....	3

#### Electives:

Four economics courses, at least one at the 300 level.....	12
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All economics majors must obtain approval of course selections in consultation with economics advisors. Majors are encouraged to select elective courses from such related fields as business administration, history, mathematics, philosophy, political science, psychology, and sociology. Majors intending to pursue graduate studies in theoretical or quantitative economics are urged to obtain adequate preparation in mathematics and take Econ 346. When students are planning their programs they should be aware that many courses are taught in only one semester of the academic year and plan accordingly. For information on the timing of courses for the coming year, consult the economics advisor.

Students desiring to graduate With Distinction in economics must complete a minimum of 36 semester hours in economics with a grade point average of at least 3.5. The 36 semester hours must include the seven core courses, and a sequence of five additional courses approved by an economics advisor. These five courses constitute a specialty within economics; for example, economic theory, quantitative economics, or labor economics.

### Minor in Economics

The requirements for the minor in economics are six economics courses, at least two of which must be taken at Roosevelt.

Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Econ 321 Income and Employment Theory or 323 Price Theory .....	3
Three economic electives, at least one at the 300 level.....	9

## Electronics Engineering Technology

### Major in Electronics Engineering Technology Leading to a BS Degree

This bachelor's degree completion program is an upper division program for transfer students with appropriate training in electronics. Graduates will be prepared for employment in the manufacturing of electronics products and in the public utilities industry. The program stresses applications; it prepares students for graduate study in such areas as electronics engineering technology and industrial engineering technology; and it provides substantial progress toward graduate entrance requirements in electronics and industrial engineering.

#### Option I for students with an associate degree

Holders of an associate degree in electronics engineering technology from an accredited institution must meet the following Roosevelt requirements:

Math 121 College Algebra .....	3
Math 122 Precalculus.....	3
Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Choice of two of the following four courses .....	6
Cst 290 Telecommunication Systems	
Cst 331 Telecommunication Systems Analysis	
Math 300 Linear Algebra	
Math 307 Differential Equations	
Two Cst programming language courses (one at the 300 level recommended) .....	6
Phys 201 Mechanics and Heat.....	5
Phys 202 Electromagnetism and Optics .....	5
Phys 365 Applied Analog Electronics (grade of C or better).....	3
Phys 366 Applied Digital Electronics (grade of C or better).....	3
Phys 395 EET Senior Project or Internship (grade of C or better).....	3
General education, University Writing Requirement, and electives	30

#### Option II for students with partial credit toward associate degree

For students with 37 semester hours or more towards an associate degree in electronics engineering technology from an accredited institution, the Roosevelt University requirements are the same as in Option I. A personalized curriculum will be developed so that all requirements listed above are met. The student may find suitable options among telecommunications and computer science courses.

## English

Students who major in English will undertake a course of study designed to develop knowledge in literary trends, themes, and genres as well as skills in critical interpretation and written communication. In advanced courses, students will investigate the structure, style, intellectual content, historical significance, and cultural context of the literature produced primarily in Great Britain and the United States as well as the literature of other cultures in translation. This extensive textual study will foster appreciation of diverse cultural values and of the means by which culture is transmitted through language.

The English faculty has designed the curriculum in the firm belief that acquiring this knowledge and these skills is not only rewarding in itself but also valuable to students with a variety of goals, such as pursuing graduate degrees in English literature and language; teaching English in secondary schools; entering professional schools in such areas as law, medicine, technology, or business; working in any field for which cultural awareness and strong analytical, interpretive, research, and writing skills are desired. Students majoring in other disciplines may choose to minor in English. Although not as extensive as the major curriculum, the minor will also develop cultural knowledge and critical communication skills that complement a student's work in any of the other academic majors in the University.

### Major in English Literature leading to a BA degree

The major consists of twelve courses in English literature, six core courses and six electives. Five of the core courses, Eng 205, 210, 211, 212, 213, have no prerequisites and may be taken by freshmen; however, students whose Roosevelt University Assessment scores indicate a need for basic skills work in reading and writing may have difficulty meeting the demands of the core courses. Students must maintain a 2.5 average in courses applied to the major; composition courses do not count. Transfer students must complete at least 15 semester hours in 300-level English courses at Roosevelt.

Electives should be chosen in close consultation with an advisor, who will recommend that students take courses that include materials from at least three of the following four areas: poetry, fiction, drama, and nonfiction prose. For students whose expository writing would profit from additional practice, an advisor may also strongly recommend or require English 222. Students planning a career in secondary education should seriously consider the internship courses in teaching composition or literature.

### Requirements for a major in English Literature leading to a BA degree

Eng 205 Shakespeare.....	3
Eng 210 British Literature to 1789.....	3
Eng 211 British Literature 1789 to present.....	3
Eng 212 American Literature to 1865 .....	3
Eng 213 American Literature 1865 to present.....	3
Eng 220 Introduction to Literary Analysis .....	3

Six electives in English literature, five at the 300 level..... 18

**Major in English Leading to a BA Degree  
Concentration in Creative Writing**

Students interested in this specialty must complete 12 semester hours of English elective credit in the creative writing program. Eng 253 is required; of the remaining three courses, at least two must be workshops in the writing of fiction, poetry, play writing, screen writing, or creative nonfiction. Students may elect to take a course in a significant project approved by a creative writing faculty member, an editing internship with the program’s literary magazine, or a public-service writing internship.

**Minor in English**

To qualify for the minor, students must complete four of the six courses in the core curriculum and two 300-level electives. Upon completion of Eng 220, students may elect any of the 300-level courses.

Eng 205 Shakespeare.....	3
Eng 220 Introduction to Literary Analysis.....	3
Eng 210 or 211.....	3
Eng 212 or 213.....	3
Two 300-level English electives.....	6

**English Language Program**

The English Language Program (ELP) provides a carefully planned series of courses designed to prepare non-native speakers of English for study in an American college or university. ELP offers courses in four skill areas: conversation, grammar, reading, and writing, at beginning, intermediate, and advanced levels. For additional writing practice, degree-seeking students must enroll in a more advanced, transition-level writing class: ELP 110 (undergraduate) or ELP 111 (graduate). Roosevelt University’s English Language Proficiency Test determines student placement within the program.

- n Beginning level provides intensive practice in basic English skills at an elementary level for students who have little or no knowledge of English.
- n Intermediate level improves and extends control of the language for students who have some functional ability in basic English.
- n Advanced level enables students whose ability to speak, read, and write English is fairly good, but not adequate for a program of academic study without English language support, to participate successfully in most academic courses.

### Conversation

Practice in speaking and understanding English in both social and academic settings with emphasis on effective communication strategies, listening comprehension, pronunciation, and overall fluency.

- Elp 70 Beginning Level
- Elp 80 Intermediate Level
- Elp 90 Advanced Level

### Grammar

Written and oral practice in grammatical structures of American English primarily for academic but also for social purposes.

- Elp 71 Beginning Level
- Elp 81 Intermediate Level
- Elp 91 Advanced Level

### Reading

Practice in college-level reading skills and vocabulary development, including training in using the library and doing research.

- Elp 72 Beginning Level
- Elp 82 Intermediate Level
- Elp 92 Advanced Level

### Writing

Development of composition skills in English with emphasis on effective expression of ideas for academic purposes.

- Elp 73 Beginning Level
- Elp 83 Intermediate Level
- Elp 93 Advanced Level
- Elp 110 Composition for Undergraduate International Students
- Elp 111 Composition for Graduate International Students

## Environmental Science and Environmental Policy

Since the 1960s, there has been growing concern over the relationship of humans to their environment, which has stimulated a demand for individuals with training in environmental policy and environmental science. Government agencies, nonprofit organizations, and businesses are looking for people to fill positions that require an understanding of the economic, political, social, scientific and technical factors impacting the environment. The field now requires an interdisciplinary understanding of these environmental concerns in order to deal with issues of ecosystem health, biodiversity, sustainable development,



and global climate change.

The location of Roosevelt University's campuses in Chicago and Schaumburg gives students many opportunities for working closely with local, state, and federal government officials, as well as private sector companies, on issues affecting our regional community. Many of the environmental courses focus on metropolitan environmental issues, and government officials contribute to many of these courses as instructors or guest lecturers. Each summer, environmental science courses are offered that focus on local ecosystems and environmental issues and include practical field experience. Government agencies and local environmental companies have partnered with Roosevelt University to provide students with hands-on internship and employment opportunities.

Roosevelt University offers two interdisciplinary degrees in the environmental programs—a Bachelor of Arts (BA) with a major in environmental policy and a Bachelor of Science (BS) with a major in environmental science. Undergraduate students are not only prepared for positions in the workforce, but also are encouraged to continue their graduate education in the environmental management concentration under the Master of Public Administration degree. This graduate degree will allow students to take their skills into management in either the public or private sectors as environmental program managers or directors.

Students earning either of these degrees are well equipped for private sector and government sector positions. The curricula have been tailored to meet the specific government requirements for environmental policy specialist and environmental scientist positions. Students are required to participate in an environmental internship with either a government agency or private sector firm. Students have received internships and/or employment at a variety of agencies such as Argonne National Laboratory, Army Corp of Engineers, Department of Energy, Environmental Protection Agency, Fish and Wildlife Service, City of Chicago's Department of Environment, several Forest Preserve Districts, Occupational Safety and Health Administration, Openlands, Citizens for a Better Environment, Lake Michigan Federation, local government environmental departments, and several private laboratories and corporations in the local area. Students also have opportunities for a variety of field experiences in courses like Biol 315 Ecology, Envs 330 Wetlands Delineation, and Envs 335 Great Lakes.

Roosevelt also offers a certificate program in Geographic Information Systems. Information about this program may be found under Geography.

#### Major in Environmental Policy leading to a BA degree

The Bachelor of Arts degree with a major in environmental policy is offered through the School of Policy Studies and focuses on a rigorous undergraduate training in the legal, socioeconomic, and political impacts to the environment. Students are required to select a specialty in either regulatory administration or applied environmental management which are directly related to positions in the environmental workforce. Depending on the selection of courses, students

obtain positions as environmental policy specialists, environmental policy analysts, or program analysts. Students learn the technical and regulatory aspects of environmental programs administered by governments, which impact both nonprofit and private sector agencies. Based on their future employment interests, students may divide their courses between the two specialties or concentrate all of their courses in one area in consultation with an environmental programs advisor. All core courses and specialty area courses must be completed with a grade of C or higher. At least 15 semester hours in the major must be completed at Roosevelt University.

This degree also requires a three-semester-hour environmental internship, which must be coordinated with an environmental programs advisor at least six months in advance of the targeted placement date. Students become eligible for internship placement after at least one semester of enrollment at Roosevelt and satisfactory completion of 15 semester hours in the major. Internships may be paid or unpaid, and must include at least 200 hours of on-site work. Internships may be carried out under the auspices of the student's employer, but the student's routine work activities will not be sufficient to constitute the internship experience.

#### Requirements for the major in Environmental Policy

Pos 101 US Politics .....	3
Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Chem 100 Chemistry in Context or Chem 101 General Chemistry I.....	4
Biol 112 Environmental Biology or Geography 101 Physical Geography I.....	3-4
Field Experience Options.....	3
Envs 330 Wetlands Delineation	
Envs 335 Great Lakes	
Biol 315 Ecology	
Envs 391 Internship .....	3
Six courses chosen from the specialty areas .....	18

#### Specialty in Regulatory or Administration

Econ 322 Environmental Economics.....	3
Hist 377 Environmental History .....	3
Pos 241 Environmental Problems in Metropolitan Areas .....	3
Pos 243 Environmental Problems in Developing Countries.....	3
Pos 357 Global Environmental Politics .....	3
Pos 378 Environmental Law .....	3

#### Specialty in Applied Environmental Management

Geog 314 Intro to Geographical Information Systems.....	3
Geog 316 Advanced Geographical Information Systems.....	3
Envs 201 Hazardous Materials .....	3
Envs 202 Pollution Control.....	3
Padm 373 Administration of Environmental Protection Programs....	3

### Minor in Environmental Policy

A student may receive a minor in environmental policy by taking 15 semester hours from the following courses, including the internship requirement. All courses in the minor must be completed with a grade of C or higher. At least six semester hours must be taken at Roosevelt University.

Envs 399 Environmental Science Internship .....	3
Four courses chosen from the following list: .....	12
Envs 202 Ecology, Evolution, and Genetics	
Envs 330 Wetlands Delineation	
Envs 335 Great Lakes	
Biol 315 Ecology	
Geog 314 Intro to Geog Information Systems	
Geog 316 Advanced Geographical Information Systems	
Hist 377 Environmental History	
Pos 241 Environmental Problems in Metropolitan Areas	
Pos 243 Environmental Problems in Developing Countries	
Pos 357 Global Environmental Politics	
Pos 378 Environmental Law	
Envs 391 Internship .....	3

### Major in Environmental Science leading to a BS degree

The Bachelor of Science degree with a major in environmental science is offered through the School of Science and Mathematics, and focuses on the fundamental natural sciences and mathematics as they are applied to the environment. The curriculum was designed to prepare students to obtain positions as environmental scientists or technicians. After completion of the core science and mathematics courses, a combination of upper-level science and mathematics electives is individually tailored to the interests and career goals of each student.

This degree also includes a three-semester-hour environmental internship, which must be coordinated with an environmental programs advisor at least six months in advance of the targeted placement date. Students become eligible for internship placement after at least one semester in residence and satisfactory completion of 15 semester hours in the major. Internships can be paid or unpaid, and must include at least 200 hours of on-site work. Internships may be carried out under the auspices of the student's employer, but the student's routine work activities will not be sufficient to constitute the internship experience.

Students must complete at least 20 semester hours of acceptable biology, chemistry, geology, or physics courses at Roosevelt University. At least 30 semester hours must be taken at Roosevelt University in the junior and senior years, and off-site internships do not count toward this requirement. Courses applying to the major must be taken on a letter grade basis and must be passed with a letter grade of C or better. The internship may be taken on a pass/fail basis. Students with calculus are encouraged to take Phys 231 and 232 in place

of Phys 201 and 202.

#### Requirements for a major in Environmental Science

Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Biol 202 Ecology, Evolution, and Genetics .....	5
Biol 315 Ecology	
or Biol 360 Microbiology	
or both Biol 330 and 335	
or Chem 373 Environmental Chemistry.....	5-6
Phys 201 Mechanics and Heat .....	5
Phys 202 Wave Motion, Optics, and Electromagnetism .....	5
Math 121 College Algebra .....	3
Math 122 Precalculus.....	3
Math 217 Introduction to Probability and Statistics.....	3
Envs 201 Hazardous Materials Management .....	3
Envs 202 Pollution Control.....	3
Envs 314 Introduction to Geographic Information Systems (GIS).....	3
Envs 316 Advanced Geographic Information Systems.....	3
Envs 391 Environmental Science Internship .....	3-6
Pos 378 Environmental Law .....	3
Four elective courses at the 200 or 300 level in biology, chemistry, computer science, geology, math, or physics .....	12
General education, University Writing Requirement, and electives to total	
120	

#### Minor in Environmental Science

Students may earn a minor in environmental science by completing five courses to total at least 15 hours. Students who have transferred three or more equivalent courses may earn a minor in environmental science by completing at least two additional required courses at Roosevelt University. Students must complete all courses counted towards the environmental science minor with a grade of C or higher. A minor in environmental policy is available by completing an additional 15 to 18 semester hours.

Envs 201 Hazardous Materials Management .....	3
Envs 202 Pollution Control.....	3
Three courses chosen from Biol 202, 315, 324, 330, 335; Chem 373; Geog 314, 316.....	9

## French

(See Languages)

## Geography

The geography curriculum exposes students to a range of disciplines and provides a basis for careers dealing with the crucial problems facing both the world of today and the world of tomorrow. Accelerating population growth, environmental pollution, dwindling resources, and new multinational systems are creating demands for professionals sensitive to the political, economic, and physical geography of this planet. A background in geography provides opportunities in such diverse fields as urban environmental management and planning, government administration, earth sciences, international studies, geographical information systems, and world economics.

### Certificate in Geographic Information Systems (GIS)

Geographic Information Systems (GIS) are computer-based systems that accommodate virtually any type of information about features that are referenced by geographical location. For example, GIS is used to model population growth and distribution, urban development, transportation expansion, manufacturing location, emergency response planning, and environmental impacts.

The use of GIS in government agencies, municipalities, private businesses, and nonprofit organizations has grown dramatically in recent years. People with the skill to use GIS are in demand across a broad range of professions in environmental science, geology, biology, engineering, city and regional planning, marketing, telecommunications, and other industries. Roosevelt's GIS certificate is designed to provide students with the knowledge and skills they need for immediate success in GIS-related research and employment.

Five courses are required to earn the GIS certificate. Three of the courses are required; two are electives selected from the list below. Students must also develop a GIS project portfolio while completing these courses.

#### Required courses:

Geog/Envs 314 Introduction to Geographic Information Systems ...	3
Geog/Envs 316 Advanced Geographic Information Systems .....	3
Geog/Envs 380 GIS Workshop/Seminar .....	3

#### Electives:

Badm 360 Survey of International Business .....	3
Biol 315 Ecology.....	3
Biol 330 Wetlands Delineation .....	3
Biol 335 Great Lakes .....	3
Biol 361 Information Technology for the Sciences.....	3

Chem 373 Environmental Chemistry .....	3
Cst 263 Visual BASIC Programming I .....	3
Cst 290 Telecommunication Systems.....	3
Cst 333 Database Design.....	3
Cst 365 Web Programming.....	3
Cst 367 Web Database Applications.....	3
Econ 322 Environmental Economics.....	3
Econ 352 Urban Economic Development .....	3
Envs 201 Hazardous Materials Management .....	3
Envs 202 Pollution Control.....	3
Fnsv 350 Risk Management.....	3
Geog 305 Urban Geography .....	3
Geog 321 Climatology.....	3
Geog 344 World Resource Management.....	3
Geog 350 Problems of the Urban Environment.....	3
Geol 205 Environmental Geology .....	3
Mktg 344 Marketing Strategy and Planning .....	3
Soc 331 Criminology .....	3
Soc 345 The Study of Population.....	3
Soc 349 Environmental Sociology .....	3

### Minor in Geography

Students may earn a minor in geography by completing five geography or geology courses to total at least 15 semester hours. Students who have transferred three or more geography or geology courses may earn a minor in geography by completing at least two geography courses at Roosevelt University. Students must complete all courses counted towards the geography minor with a grade of C or higher.

### German

(See Languages)

### History

Marcus Cicero observed that history “illuminates reality, vitalizes memory, provides guidance in daily life and brings us the tidings of antiquity.” Historical knowledge is fundamental to an appreciation of humanity’s common bonds as well as its distinctive tapestries. An understanding of history illustrates how past values and experiences inform today’s world. This understanding helps people forge a sense of identity and create blueprints from which to construct a community. Perhaps most significantly, an awareness of the past fosters an informed citizenry capable of building and sustaining democratic traditions. In addition to becoming more informed citizens, students who study history develop a set

of critical skills that prepare them to enter any number of positions requiring research, writing, and analysis. As a major or a minor, this discipline serves as a foundation for those anticipating careers in teaching, journalism, law, geography, international relations, library science, the arts, policy analysis, museum work, and archival management.

The program focuses on history from a local and national as well as a global perspective and offers undergraduate sequences in the fields of European, African, world and United States history, with individual courses in other fields. A helpful pamphlet, "For Students Who are Majoring in History," may be obtained from the Liberal Studies Office or online at [www.roosevelt.edu/history](http://www.roosevelt.edu/history). Students in the history program may also take advantage of the resources of the University's Center for New Deal Studies and the St. Clair Drake Center for African-American Studies.

#### Major in History leading to a BA degree

The major requires eleven courses in history with no grade lower than C. At least 15 semester hours must be taken at Roosevelt and at least 12 semester hours at the 300 level. Students are required to write three term papers in history approved by the faculty, or an undergraduate thesis approved by a faculty sponsor and the history faculty. History has no foreign language requirement, but students intending to do graduate study in history or whose interest is in the study of a foreign culture are strongly advised to take at least two years of a foreign language. Transfer students may substitute a Western civilization survey for Hist 111 and 112.

Hist 106 US History to 1865 .....	3
Hist 107 US History since 1865 .....	3
Hist 111 The World to 1500 .....	3
Hist 112 The World Since 1500 .....	3
Hist 280, 281, or 282 Topics in Historiography and Methodology .....	3
Six history electives, at least two at the 300 level .....	18

#### Minor in History

The minor requires six courses in history, including two courses chosen from: History 106, 107, 111, 112, and four upper-level courses, at least two of which must be at the 300 level. Students must earn a grade of C or higher in each course. At least two courses must be taken at Roosevelt University.

### International Studies

The international studies program is an interdisciplinary major involving political science, history, economics, and anthropology. The aim of the program is to train students in the theory and methods of international relations. Students should achieve a thorough grounding in basic principles as well as familiarity with the history, institutions, political processes, and cultures of at least one of

the important regions of the world.

### Major in International Studies leading to a BA degree

Students who major in international studies must complete twelve courses in the program with a grade of C or higher. This includes a set of six core courses and six electives. In addition students must demonstrate intermediate level skill in a foreign language. Language courses may also be counted toward general education requirements. At least five courses in international studies must be taken at Roosevelt University.

The core courses include work in the component disciplines of the program. They are designed to provide students with a variety of analytical tools and to offer basic information concerning international studies. Students who wish to pursue specialized topics may do so by independent study; however, no independent study may be undertaken until the core sequence has been completed. Each independent study course must have the approval of the program coordinator. A student may take only one independent study course for credit in the major.

Elective courses are grouped into two sets: those dealing with the international system as a whole and those dealing with a particular region or culture. Students should select courses from both groups with the aim of developing understanding of systemic processes and of one major area. Students may take, for example, both Pos 306 and Pos 389, counting one as a core course and the other as an elective. Each student should choose electives that are tailored to his/her interests and that constitute a coherent program. In order to do this each student should consult the program coordinator before registration each semester.

#### Core courses:

Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Pos 201 Introduction to International Relations.....	3
Pos 325 Diplomatic History of the United States.....	3
Hist 306 The World Since 1945	
or Hist 305 Modern Imperialism .....	3
Pos 306 Political Development and Developing Nations	
or Pos 389 International Political Economy.....	3
Six electives chosen from economics, history, and	
political science .....	18

#### Elective courses:

##### Group A: Courses Dealing with the International System

Anth 240 Cross-Cultural Anthropology.....	3
Anth/Pos 314 Globalization, Society, and Culture.....	3
Econ 333 Comparative Economic Systems.....	3



Econ 374 The Economics of Development and Underdevelopment	3
Econ 376 International Trade, Multinational Corporations, and the Question of Imperialism	3
Econ 377 International Finance and Balance of Payments	3
Hist 112 The World Since 1500	3
Hist 305 Modern Imperialism	3
Hist 306 The World Since 1945	3
Phil 219 World Religions	3
Pos 302 Problems of US Foreign Policy	3
Pos 303 Democracy Around the World	3
Pos 304 Great Power Politics	3
Pos 338 Internship in Politics and Law	3
Pos 346 Theories of World Politics	3
Pos 349 Atomic Bomb in History and Culture	
Pos 357 Global Environmental Politics	3
Pos 380 International Law: Human Rights	3
Pos 387 International Law: Organization	3
Pos 388 War and Peace	3
Pos 389 International Political Economy	3

#### Group B: Area and Regional Studies

Anth 311 Culture and Politics in Latin America	3
Hist 240 Introduction to African History, Culture, and Traditions	3
Hist 260 Ethnicity in North American Cities	3
Hist 316 Latin America Since Independence	3
Hist 321 20th-Century Europe	3
Hist 342 Topics in World History	3
Hist 346 History of World War II	3
Pos 203 Introduction to Political Science	3
Pos 306 Political Development and Developing Nations	3
Pos 311 Regional Diplomacy	3
Pos 313 Western European Politics	3
Pos 315 Politics of Eastern Europe	3
Pos 316 Latin American Politics	3
Pos 317 Mexican Politics and Government	3
Pos 354 Middle East Conflict	3
Pos 356 Elections Around the World	3
Pos 360 Modern History and Politics of China	3
Pos 371 Modern and Contemporary Africa	3

## Italian

(See Languages)

## Journalism and Communications

This field includes three majors targeted toward the media professions—journalism, public relations, and integrated communications (advertising)—and a communications major with two concentrations, media studies and professional communications. All programs can be completed at both the Chicago and Schaumburg campuses.

### Major in Journalism Leading to a BA Degree

Students majoring in journalism may focus their studies on one of five concentrations by taking two electives in one of the following areas: writing/reporting, magazine, visual media, broadcast, or editing. Students also may follow a general curriculum without a concentration.

Students must have completed Jour 201 or its equivalent with a grade of C or better to begin their studies as journalism majors. For students entering the program in fall 2003 and later, the major requires 11 courses in journalism, eight of which are core courses plus a capstone course. Transfer students must complete at least six of these courses at Roosevelt. All courses in the major must be passed with a grade of C or higher.

The School of Communication recommends a minor of at least 15 semester hours in a program such as political science, psychology, English, sociology, economics, or history.

#### Core courses:

Jour 220 Media Writing .....	3
Jour 219 Essential Media Skills .....	3
Jour 305 News Broadcasting .....	3
Jour 319 News Reporting .....	3
Jour 321 Internship or 393 Practicum.....	3
Jour 363 Law and Ethics.....	3
Jour 389 New Media and Technology.....	3
Jour 390 Special Topic: Journalism Today.....	3
Jour 392 Convergence Newsroom (capstone).....	3

#### Electives:

Two courses at the 200 or 300 level in journalism (may be an area of concentration or follow a general curriculum). Jour 201 may not be used as one of the two electives.....	6
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#### Writing/Reporting :

Jour 322 Feature Writing.....	3
Jour 352 Editorial and Column Writing.....	3

#### Magazine :

Jour 355 Magazine Writing .....	3
Jour 357 Magazine Production.....	3

#### Visual Media:

Jour 325 Photography: From Chemical to Digital .....	3
Jour 361 Advanced Photography or advanced photo courses as available .....	3

#### Broadcast:

Jour 323 Television: Issues and Art.....	3
Jour 342 Politics and Communication or production courses as available.....	3

#### Editing:

Jour 350 Editing .....	3
Jour 352 Editorial and Column Writing.....	3

#### Minor in Journalism

The requirement for a minor in journalism is all required courses except Jour 321 Internship.

## Public Relations

### Major in Public Relations leading to a BA degree

Students must have completed Jour 201 or its equivalent with a grade of C or better to begin their studies as public relations majors. The major requires 10 courses in journalism and public relations, six of which are core classes and four of which are electives in journalism or public relations. Transfer students must complete at least six of these courses at Roosevelt. All courses in the major must be passed with grades of C or higher.

The School strongly recommends a minor consisting of at least 15 semester hours in a program such as psychology, English, sociology, economics, history, or political science. The School also recommends at least two courses in English literature and at least one course in economics, as well as electives in a foreign language or cultural studies; Psyc 200 and Psyc 362 or Mgmt 358 ; and at least one course in public speaking. Students may elect appropriate courses in the College of Business Administration.

#### Core courses:

Jour 202 Introduction to Public Relations.....	3
Jour 220 Media Writing .....	3
Jour 240 Communications Research.....	3

Jour 321 Internship (in public relations) .....	3
Jour 341 Public Relations Case Problems .....	3
Jour 343 Public Relations Campaigns .....	3

#### Electives:

Four electives in journalism or public relations at the 200 or 300 level.  
 Jour 201 may not be used as one of the four electives ..... 12

The following electives are recommended for public relations majors:

Jour 205 Beginning Computer Graphics .....	3
Jour 305 News Broadcasting .....	3
Jour 322 Feature Writing .....	3
Jour 375 Media Criticism .....	3
Jour 325 Photography: From Chemical to Digital .....	3
Jour 350 Editing .....	3
Jour 355 Magazine Writing .....	3
Jour 363 Law and Ethics.....	3
Jour 389 New Media and Technology.....	3

#### Minor in Public Relations

Five of the six required courses in the core curriculum are required for public relations minors. Jour 321 is excluded.

## Integrated Communications

Major in Integrated Communications (Advertising) leading to a BA degree

Students must have completed Jour 201 or its equivalent with a grade of C or better to begin their studies as integrated communications (advertising) majors. The major requires 10 courses in journalism and advertising, six of which are core courses and four of which are electives. Transfer students must complete at least six of these courses at Roosevelt University. All courses in the major must be passed with a grade of C or higher.

The School of Communication recommends a minor consisting of at least 15 semester hours in a program such as psychology, English, marketing, sociology, or economics. The School also recommends at least one course in economics, one course in speech, and two courses in marketing.

#### Core courses:

Jour 203 Introduction to Advertising.....	3
Jour 220 Media Writing .....	3
Jour 240 Communications Research.....	3
Jour 243 Visual Communication and Technology .....	3
Jour 321 Internship (in advertising).....	3

Jour 347 Creative Marketing Campaigns..... 3

Electives:

Four courses in journalism or advertising at the 200 or 300 level.

Jour 201 may not be used as one of the four electives ..... 12

The following electives are recommended for integrated communications majors:

Jour 202 Introduction to Public Relations..... 3

Jour 205 Beginning Computer Graphics ..... 3

Jour 305 News Broadcasting..... 3

Jour 325 Photography: from Chemical to Digital ..... 3

Jour 343 Public Relations Campaigns..... 3

Jour 363 Law and Ethics..... 3

Jour 375 Media Criticism ..... 3

Jour 389 New Media and Technology..... 3

Minor in Integrated Communications (Advertising)

Five of the six core courses in the integrated communications major are required for the minor. Jour 321 is excluded.

## Communications

The major in communications with concentrations in professional communications or media studies can be completed at both the Chicago and Schaumburg campuses. The professional communications concentration is geared toward those who currently work in business or plan careers in business and want to broadly develop their communication skills. The media studies concentration is for those interested in exploring the media and their effects and influences in society, politics, and culture.

### Major in Communications leading to a BA degree

#### Concentration in Professional Communications

Students concentrating in professional communications take 12 courses in communications, eight of which are core courses and four of which are electives.

Transfer students must complete at least six of these courses at Roosevelt. All courses in the major must be passed with a grade of C or higher.

Core courses:

Jour 201 Communication in the Information Age ..... 3

Spch 201 Persuasive Speaking or Spch 204 Interpersonal Comm ..... 3

Jour 240 Communications Research..... 3

Jour 243 Visual Communication and Technology ..... 3

Bcom 301 Business Communications .....	3
Spch 345 Crosscultural Communications.....	3
Spch 353 Business and Professional Speaking .....	3
Jour 389 New Media and Technology.....	3

Electives:

Four electives in journalism or speech at the 200 or 300 level. Jour 201 may not be used as one of the four electives .....	12
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Major in Communications leading to a BA degree

Concentration in media studies

Students concentrating in media studies take 12 courses in communications, eight of which are core courses and four of which are electives. Transfer students must complete at least six of these courses at Roosevelt. All courses in the major must be passed with a grade of C or higher.

Core courses:

Jour 201 Communication in the Information Age .....	3
Jour 240 Communications Research.....	3
Jour 243 Visual Communication and Technology .....	3
Jour 342 Politics and Communication.....	3
Spch 345 Crosscultural Communications.....	3
Jour 351 Public Opinion and Propaganda .....	3
Jour 375 Media Criticism .....	3
Jour 389 New Media and Technology.....	3

Electives:

Four electives in journalism or speech at the 200 or 300 level. Jour 201 may not be used as one of the four electives .....	12
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Minor in Communications

Concentration in professional communications

Jour 201 Communication in the Information Age .....	3
Jour 240 Communications Research.....	3
Jour 243 Visual Communication and Technology .....	3
Jour 389 New Media and Technology.....	3
Bcom 301 Business Communications.....	3
One 200- or 300-level course in speech.....	3

Minor in Communications

Concentration in media studies

Jour 201 Communication in the Information Age .....	3
Jour 240 Communications Research.....	3
Jour 243 Visual Communication and Technology .....	3
Jour 342 Politics and Communication.....	3

Jour 351 Public Opinion and Propaganda or 375 Media Criticism.....	3
Jour 389 New Media and Technology.....	3

## Languages

(See also Spanish)

A variety of courses for students interested in French, German, Italian, and Spanish are offered at Roosevelt. Courses develop the student's ability to speak, understand, read, and write in the target language. From the beginning level, the target language is used extensively, and students are encouraged to use it in an array of activities and situations. Class exercises, most of which are student centered, are devoted to listening, speaking, writing and reading, in accordance with the goals of the particular class, so that the student can tailor the language to his/her needs in business, travel, teaching, health care, or public administration. Culture is systematically incorporated into all levels of instruction. A language laboratory is available to help students develop listening and speaking skills. In beginning and intermediate courses, practice with tape programs is required. Intermediate and advanced courses are designed to foster an appreciation of the target literature as well. All courses are designed not only for language majors and minors, but also for students who are specializing in other fields.

## Legal Studies

Roosevelt University offers legal studies programs for both undergraduate and graduate students. Undergraduates may pursue combined BA/JD or BS/JD programs with The John Marshall Law School. In addition, a legal studies minor may be elected by students preparing for law school. Graduate students may pursue programs combining degrees in political science or public administration with the JD degree at John Marshall. See the graduate catalog for descriptions of these programs.

### Combined BA/JD and BS/JD Program

The combined Bachelor of Arts/Juris Doctor or Bachelor of Science/Juris Doctor program makes it possible for students to begin their law degree at The John Marshall Law School after completing 90 credit hours toward the bachelor's degree rather than the usual 120 hours. This difference means a student may complete both degrees after six years of full-time study instead of seven years. In order to be eligible for this program, students must meet the following criteria:

- n At least 60 credit hours must be taken at Roosevelt University; no more than 30 credit hours transferred from another institution.
- n All University core requirements (including distribution requirements) must be completed prior to reaching the 90-credit-hour level.

- n A major must be chosen from among those offered by the College of Arts and Sciences: requirements must be completed prior to reaching 90 credit hours.
- n Students must complete the following prior to reaching the 90-credit-hour level:
  - Eng 222, Eng 302, or Bcom 301
  - Phil 209 or 210
  - Phil 329
  - Pos 101
  - Pos 374 or Pos 375
- n Prior to having reached the 90-credit-hour level, students must take the LSAT and achieve the minimal score necessary for admission to John Marshall Law School, which is determined annually.

Once students have completed the above requirements and are admitted to John Marshall Law School, they must take the required first year law school curriculum. The first year courses taken at John Marshall will be cross-credited and applied towards completion of the remaining 30 credit hours of the bachelor's degree at Roosevelt.

This program does not guarantee admission to John Marshall Law School, but it does allow participating Roosevelt students to apply for the JD program a year sooner than other students and, thus, make it possible for them to eliminate a year from the time that it normally takes to complete both degrees separately. Students participating in the combined BA/JD or BS/JD program must take the LSAT and apply separately to John Marshall Law School in the same way as other prospective law students.

### Minor in Legal Studies

Undergraduate students at Roosevelt University may pursue a minor in legal studies. This minor is designed to help students appreciate the larger social environment within which law is found, as well as to help them prepare for a professional career in law, politics, business, administration, and consulting, or an academic career in legal studies. Any student who plans to go to law school should consider the minor in legal studies; it is not only for students in the combined degree programs. The courses of the minor are divided into legal ideas and legal skills categories. Students who wish to complete this minor must take 18 semester hours from courses listed below. All courses in the minor must be completed with a grade of C or higher. At least 12 semester hours must be taken at Roosevelt University.

Courses in legal ideas:

- Phil 329 Philosophy of Law
- Pos 374 Constitutional Law I: Principles and Comparative Traditions
- Pos 375 Constitutional Law II: American Jurisprudence



Courses in legal skills:

Eng 222 Writing About Ideas  
Eng 302 Professional Writing  
or Bcom 301 Business Communications  
Phil 209 Critical Reasoning or Phil 210 Logic

## Liberal Studies

Liberal Studies offers a program of interdisciplinary courses that are used to fulfill general education requirements in the College of Arts and Sciences, the College of Education, the Walter E. Heller College of Business Administration, and some degree programs in the Evelyn T. Stone University College. The BGS and BPS degrees and degree programs in the Chicago College of Performing Arts have different general education requirements. Students should consult an advisor about the specific requirements of their own degree program. There are three types of courses in liberal studies: Great Ideas courses, Roosevelt University Signature courses, and Writing Social Justice in the Academy courses.

Great Ideas is a two-semester sequence required of students who enter Roosevelt University as freshmen. Students in Great Ideas read a selection of classic writings that illustrate a theme in intellectual history. Readings in the course are taken from great literary works of the past and present. They may be plays, dialogues, essays, novels, poetry, or other literary genres. Great Ideas courses carry 100-level numbers in liberal studies. Students who wish to enroll in either Great Ideas I or II must be concurrently enrolled in English 101 or have completed it. ELP students and those who need or are enrolled in English 099 and 100 are not eligible to take Great Ideas.

Roosevelt Signature Courses present an opportunity for the study of diverse urban and metropolitan issues as part of the Roosevelt University institutional signature. All students must take this course except those who transfer in 90 semester hours or more. Courses are offered in several fields in the humanities and social sciences. New courses are often added; check the Class Schedule for each semester. Students are required to take one such course after completing the University Writing Requirement and between 30 and 90 semester hours of credit. Students may choose any 200-level course in liberal studies, except Libs 201.

Writing Social Justice in the Academy courses provide discipline-specific writing experiences for students who have completed the University Writing Requirement. Working from essay collections designed by Roosevelt University faculty, students in Libs 201 will explore the University's social justice mission by developing and drafting research projects in the natural and mathematical sciences, arts and humanities, or social sciences. Students in all three discipline-specific versions of the course will also study relevant educational and business topics.

## Mathematics

Mathematics is an essential tool for developing theory and research in a broad range of quantitative fields. The study of mathematics provides training in disciplined thought and analysis. The programs of study leading to the bachelor's degrees prepare graduates for a variety of professions as well as for continuing study at the graduate level.

All students who plan to major or minor in mathematics must see a math advisor before registering. Some students may need prerequisite courses. Advanced placement in mathematics is possible for well-prepared students. All courses presented for the major and the minor must be completed with grades of C or higher. The average grade for all courses taken in mathematics must be C or higher. Repeated courses in the major or minor require specific approval.

### Major in Mathematics leading to a BA or BS degree

All credit must be approved by the mathematics faculty to be applied toward the major. At least four of the courses beyond Math 233 must be completed at Roosevelt University. Requirements for a major in mathematics leading to the BA or BS degrees consist of the core and elective courses listed below.

Math 231 Calculus I.....	4
Math 232 Calculus II .....	4
Math 233 Calculus III .....	3
Math 245 Discrete Structures or Math 290 Mathematical Reasoning	3
Math 300 Linear Algebra .....	3
Math 352 Analysis .....	3
Cst 150 Computer Science I.....	4
Four electives above 233 including at least two at the 300 level ....	12

### Secondary education

Secondary Education students must meet the Illinois certification requirements and should meet with an advisor from the College of Education. Students who are seeking certification to teach high school mathematics have the same 24-hour core requirements as a mathematics major listed above. Five additional courses are required as follows:

Math 217 or Math 347 Probability and Statistics.....	3
Math 280 Mathematical Modeling or Math 307 Differential Equations and Modeling or Math 332 Operations Research or Math 357 ANOVA and Experimental Design .....	3
Math 316 History of Mathematics.....	3
Math 317 Geometry .....	3
Math 318 Number Theory or Math 320 Modern Algebra.....	3

### Minor in Mathematics

The requirements for a minor in mathematics are five mathematics courses, at least four of which are at the 200 level or higher and must include Math 231. Math 202 may not be applied toward the minor. All five courses must be passed with a C or higher, and at least three must be completed at Roosevelt. Students with at least one year of high school calculus credit may substitute a course approved by the mathematics faculty for Math 231.

### Major in Statistics leading to a BA or BS degree

The major in statistics prepares graduates for diverse and vital areas that may include medical research, drug testing, environmental risk assessment, quality assurance, economic forecasting, and the exploration of space. The major requires 11 courses in mathematics, a supporting course in computing, and a minor in a discipline that uses statistics. At least four of the courses beyond Math 233 presented for the major must be completed at Roosevelt.

The minor must include five courses beyond the introductory course in the discipline and must be approved by the mathematics faculty. At least three of these courses must be completed at Roosevelt. Approved minor areas for the BA degree are biology, chemistry, computer science, economics, environmental science, metropolitan studies, physics, psychology, and sociology. Approved areas for the BS degree are biology, chemistry, computer science, physics, and psychology.

Math 231 Calculus I.....	4
Math 232 Calculus II.....	4
Math 233 Calculus III.....	3
Math 217 Introduction to Probability and Statistics.....	3
Math 238 Applied Statistical Methods.....	3
Math 300 Linear Algebra.....	3
Math 347 Probability and Statistics I.....	3
Math 348 Probability and Statistics II.....	3
Math 349 Regression and Time Series.....	3
Math 357 ANOVA and Experimental Design.....	3
One additional course in mathematics beyond Math 233.....	3
Cst 150 Computer Science I.....	4
A minor in an approved discipline.....	at least 15

### Minor in Statistics

The requirements for a minor in statistics are five mathematics courses which must be passed with grades of C or higher. At least three of the courses must be completed at Roosevelt University. Students with at least one year of high school calculus may substitute a course approved by the mathematics faculty for Math 231.

Math 231 Calculus I.....	4
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Four courses chosen from the following:

Math 217, 238, 328, 332, 347, 348, 349, 357, 388..... 12

### Elementary courses

All entering students must take the Roosevelt University Assessment for placement in their first mathematics course. Depending on the assessment of their skills, students entering with less than one year of high school algebra should expect to begin with Math 099; those entering with less than two and one-half years of high school algebra and/or geometry should expect to begin with Math 100. Well-prepared students (for example, those who have done well in college algebra or above in high school) should consult an advisor in the mathematics program for placement in a higher level course.

Students who have passed Math 100 or who have been advised that they do not need to take it should consult an advisor in their major or in the mathematics program before taking their next mathematics course. Students may count no more than 12 semester hours of credit in mathematics courses at the 100 level toward graduation. The following guide may aid these students:

- n Math 105 is specifically for elementary education and early childhood majors.
- n Math 110 and Math 115 are designed to give students an understanding of some of the applications of mathematics to other disciplines; they satisfy the mathematics general education requirement in the College of Arts and Sciences. Math 115 is recommended as a second course for elementary education and early childhood majors.
- n Math 116 is for majors in the social sciences or business administration preparing for a course in statistics.
- n Math 121 is for business students and students going on to Math 122 and Math 231.

## Metropolitan Studies

This field examines the development and functioning of urban areas. Students choosing this major complete course work across the traditional disciplines of economics, geography, history, political science, and sociology. As with any other social science major, students develop competence in oral and written expression and the analytical skills that prepare them for a lifetime of professional growth. The exposure that students have to broad conceptual and analytical frameworks from across many disciplines prepares them to enter professions focused on urban development in public and nonprofit organizations or private business. They will also be equipped to undertake graduate study in urban policy and planning, social welfare, public affairs, business, law, journalism, or the social and environmental sciences. In their senior year students may take

advantage of internship opportunities that can help them to explore career possibilities and begin to make professional contacts.

The major requires 33 semester hours of approved course work, all with a grade of C or higher. At least 15 semester hours in the major must be completed at Roosevelt.

#### Major in Metropolitan Studies leading to a BA degree

Pos 101 Introduction to US Politics .....	3
Econ 101 Introduction to Macroeconomics .....	3
Econ 102 Introduction to Microeconomics .....	3
Libs/Pos/Soc 245 City and Citizenship.....	3
Pos/Soc 290 The Research Process.....	3
Six electives chosen from the courses listed below.....	18
Hist 307 History of Chicago	
Hist 323 The Urban Vision	
Libs 246 Arts and Urban Life	
Libs/Hist 260 History of Housing and Race in Urban America	
Padm 367 Governing Metropolitan Areas	
Pos 241 Environmental Problems of Metropolitan Areas	
Pos/Padm 338 Internship	
Pos 362 Urban Politics	
Pos 363 Urban Policy	
Pos 366 Local Government	
Pos 397 Urban Policy Issues	

### North American Studies

The adoption of the North American Free Trade Accord (NAFTA) is indicative of the growing integration of the North American continent and its three most important countries, the United States, Canada, and Mexico. This integration provides an American response to the emergence of a united European community, and it is an important part of the larger national and international trend toward economic globalization, cultural diversity, and political development. The future of the United States will be experienced through its continental context, so an understanding and appreciation of this context is crucial for today's American entrepreneurs, public officials, and citizens.

#### Minor in North American Studies

This minor provides an overview of this diverse, yet interrelated continent. The curriculum offers basic knowledge and tools that may be applied to many major fields in a truly pragmatic manner. Social science, humanities, business, and education majors will find themselves better prepared to apply their learning to the real world of global politics as it emerges within this particular, and poten-

tially dominant, region of the world.

Requirements for the minor include two core courses and four electives that relate to the US, Canada, or Mexico. Two of the elective courses must relate to either Canada or Mexico or both. Two of the four electives must be taken at the 200 or 300 level. At least four courses must be taken at Roosevelt. All courses in the minor must be passed with grades of C or higher. Students may substitute an approved visiting or study abroad program, such as Quebec Studies Summer Program offered through SUNY Plattsburgh, for an elective course.

Libs 260 Topics in North American Cities .....	3
Hist 106 The United States to 1865	
or Hist 107 The United States since 1865.....	3
Four electives.....	12

## Paralegal Studies

### Combined BA/Paralegal Certificate Program

Legal assistants, also referred to as paralegals, are an integral part of the legal environment and work in a variety of settings including law firms, corporations, insurance companies, banks, and government offices. Students choosing a major in the School of Policy Studies may pursue a Bachelor of Arts degree combined with a Paralegal Certificate offered by the Lawyer's Assistant Program and approved by the American Bar Association. Students start work on their certificate in the last year of their undergraduate studies after they have completed requirements for their policy studies major and legal studies minor. They then take the eight courses in the Lawyer's Assistant Program (PARA) as their electives. Students must have a 2.5 GPA and submit an application to the Lawyer's Assistant Program in order to be eligible for the certificate courses. All courses in the certificate program must be passed with a grade of C or higher.

Para 301 Ethics and Professionalism .....	3
Para 302 Legal Research .....	3
Para 303 Civil Law.....	3
Para 304 Pre-Trial Litigation.....	3
Para 305 Commercial Law .....	3
Para 306 Trial and Post-Trial Litigation.....	3
Para 325 Legal Writing.....	3
Para 330 Paralegal Internship	
or one course in a substantive area of law such as	
intellectual property, real estate, estates, trust and	
wills, or criminal law .....	3

## Philosophy

Philosophy offers a complete undergraduate program in the history and problems of philosophy. Course offerings provide the intensive training necessary for students planning to use a major in philosophy as the core of a general educa-

tion, as well as for those intending to pursue graduate studies.

### Major in Philosophy leading to a BA degree

Twelve courses are required for the major in philosophy. The 10 philosophy courses include four core courses, two elective courses, three courses in a selected area of concentration, and a senior research project. The senior research project is an independent study in the student's area of concentration directed by the concentration advisor or another appropriate faculty member. Philosophy majors are also required to take two supporting courses in cultural history. One year of a foreign language is strongly recommended.

The areas of concentration from which philosophy majors must pick three courses are social and political philosophy (Phil 313, 321, 334, 340), value theory (Phil 333, 334, 340, 345) and religion and science (Phil 219, 221, 314, 331, 360).

Grades of C or higher must be earned in all philosophy courses and supporting courses to be counted toward fulfillment of the major. Transfer students must complete at least 12 semester hours at Roosevelt University, including at least six semester hours at the 300 level. Students majoring in philosophy should check their requirements for graduation with an advisor soon after deciding to major in philosophy. Notification of candidacy for graduation should be given during the advisement period preceding the last semester before graduation.

One course from Phil 201 through 206 .....	3
Phil 210 Logic.....	3
Phil 230 Ethics.....	3
Phil 255 History of Philosophy.....	3
Two electives in philosophy .....	6
Three philosophy courses in an area of concentration .....	9
Phil 399 Senior Research Project .....	3
Two supporting courses in cultural history .....	6

### Minor in Philosophy

The five philosophy courses required for the minor must include at least one course on the 300 level. All courses must be completed with a grade of C or higher. Students may choose either a general minor, comprising any five courses subject to the above requirements, or one of two subject area minors. The subject areas are political and legal philosophy or religion and science. Students who elect one of the subject area minors must take at least three of the required five courses in that area. Transfer students must complete at least six semester hours at Roosevelt, including three semester hours at the 300 level. Students interested in a subject area minor may consult a philosophy advisor for a list of relevant courses.

## Physics

### Introductory physics courses

Two introductory series are offered: Phys 201 and Phys 202 for students intending to major in the life sciences, medical sciences, environmental science, or technology; and Phys 231 and Phys 232 for students intending to major in chemistry and for well-prepared students in other majors. Phys 231 and Phys 232 are strongly recommended for pre-medical students.

### Minor in Physics

Students may earn a minor in physics by successfully completing at least four physics courses including those listed below. Credits in the minor must total at least 16 semester hours; at least two courses must be completed at Roosevelt University.

Phys 201 Mechanics and Heat and	
Phys 202 Wave Motion, Optics, Electromagnetism .....	10
or Phys 231 Mechanics and Thermodynamics and	
Phys 232 Waves, Light, Electromagnetism .....	12
Two electives in physics at the 300-level .....	6

## Political Science

Political science deals with how we reach the collective decisions that shape our common fate. Political scientists study topics such as the exercise of power and influence; sources and resolution of conflicts; the relationship of politics to the economy, culture, and other aspects of society; the adoption and implementation of public policies; and the development of political systems. These topics are studied at all levels, from local communities to the global community. The scope of the discipline is suggested by the four main subfields that make up the undergraduate curriculum: US politics, comparative politics, international relations, and political theory.

Roosevelt University is ideally located for studying political science. At campuses in downtown Chicago and suburban Schaumburg, Roosevelt students study politics in one of the country's most dynamic metropolitan areas. Government is the area's largest employer and the city is home to a large number of foreign consulates, political offices, and social action groups. Students with an undergraduate background in political science may find employment in government, diplomacy, advocacy organizations, nonprofit organizations, education, journalism, and business. Political science is also an excellent major for those considering law school or graduate study in public administration or urban planning.



### Major in Political Science leading to a BA degree

Students must complete 11 courses in the major, with at least five courses at the 300 level. All courses in the major must be completed with a grade of C or higher. Transfer students must take at least six political science courses at Roosevelt University. Majors are encouraged to take Econ 101 and 102. Students planning to pursue graduate study in political science are encouraged to discuss with their advisors appropriate courses of study in languages and statistics.

Pos 101 US Politics .....	3
Pos 201 Introduction to International Relations .....	3
Pos 202 Introduction to Political Theory .....	3
Pos 203 Introduction to Political Science .....	3
Seven electives in political science, five at the 300 level .....	21

### Minor In Political Science

The political science minor consists of six courses, including at least three of the four core courses required of the major. At least two courses must be at the 300 level. All courses in the minor must be completed with a grade of C or higher. Transfer students must complete at least three political science courses at Roosevelt University.

## Post-baccalaureate Pre-Professional Programs

The School of Science and Mathematics offers a post-baccalaureate, pre-professional curriculum for students who need college-level science courses in order to apply for admission to medical, dental, or veterinary school. This curriculum provides students with the minimum science and mathematics courses required by most professional schools and helps prepare students for professional school standardized admission tests (the MCAT, DCAT and VAT). Post-baccalaureate students with substantial undergraduate science background may want to consider the MS in biotechnology and chemical science or the certificate in biotechnology as alternatives to the program outlined below.

With appropriate course selection and full-time attendance students may complete the curriculum below in one calendar year and take the appropriate standardized admission test in the summer. To accomplish this, students who lack general chemistry and college algebra and trigonometry must begin study in the summer term. Students who have acceptable credits in these subjects may begin in the fall term. In either case, the need to finish certain courses in sequence, the standardized admission exam schedule, and professional school calendars dictate that students plan to enter professional school no sooner than two years after they begin full-time study. Students may also pursue this curriculum on a part-time basis, with appropriate adjustment of target admission dates.

### Student eligibility

The post-baccalaureate pre-professional program is open to students who have a bachelor's degree from an accredited college or university and a grade point average of at least 3.0 on a four-point scale for their last 60 semester hours of course work.

### Post-baccalaureate pre-professional program

Math 121 College Algebra .....	3
Math 122 Precalculus .....	3
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	4
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Phys 201 Mechanics and Heat .....	5
Phys 202 Wave Motion, Optics, and Electromagnetism.....	5
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular Biology .....	5

Students may wish to supplement this basic program with additional courses in statistics, calculus, biology, and chemistry. Each student in the program is assigned a personal advisor who will help him/her prepare a strategy for professional school admission and counsel him/her on appropriate course work.

Schedule for a typical student with minimal preparation in mathematics and chemistry:

Year I:

Summer	Fall	Spring
Math 121	Biol 201	Biol 301
Chem 101	Chem 211	Chem 212
Math 122	Phys 201	Phys 202
Chem 202		

Year II:

Summer
MCAT Review Course, MCAT

This schedule assumes full-time study for three successive terms beginning in the summer. Students with acceptable credit in general chemistry and mathematics may elect to begin study in the fall but are encouraged to take Chem 211 and Chem 212 in the first summer. MCAT, DCAT and VCAT review courses are offered by outside agencies. They are recommended but not required and are not part of the formal program.

## Pre-Dentistry, Pre-Medicine, and Pre-Veterinary Medicine

The formal requirements of dental, medical, and veterinary schools vary; however, in recent years nearly all students have earned at least a bachelor's degree before admission. Most students have majored in one of the sciences, frequently in biology or chemistry; however, applicants may complete a major sequence in any undergraduate subject, including the humanities and social sciences. There are several courses that are required by virtually every health science school in the United States. These minimum course requirements and the Roosevelt University courses are given below.

Eng 101 Introduction to Composition.....	3
Eng 102 Argumentation, Analysis, Research.....	3
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Phys 201 Mechanics and Heat.....	5
Phys 202 Wave Motion, Optics, and Electromagnetism.....	5
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular Biology .....	5
Math 121 College Algebra .....	3
Math 122 Precalculus.....	3

Among other courses recommended by a number of health science schools are genetics, embryology, biochemistry, microbiology, calculus, statistics, and courses in humanities and social sciences.

The potential applicant should plan to take the Medical College Admissions Test (MCAT) or Dental College Admissions Test (DCAT) or Veterinary College Admissions Test (VCAT) no later than one year before the prospective date of entrance. These nationally administered tests are given twice a year, spring and fall; information regarding these tests is available at the University's advising centers as well as in the School of Science and Mathematics.

Pre-professional students, especially those majoring in nonscience areas, are strongly urged to consult a pre-professional advisor in the School of Science and Mathematics as early as possible in their college career.

## Pre-Pharmacy Program

Pharmacy schools typically require one or two years of college preparation. Pre-pharmacy students should consult the bulletin of the pharmacy school of their choice and plan a program together with a chemistry advisor. Minimum requirements include the following:

Eng 101 Introduction to Composition.....	3
Eng 102 Argumentation, Analysis, Research.....	3

Math 121 College Algebra .....	3
Math 122 Precalculus .....	3
Chem 101 General Chemistry I.....	4
Chem 202 General Chemistry II .....	5
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular Biology .....	5

Recommended courses:

Spch 101 Public Speaking.....	3
Biol 360 Microbiology.....	4
Math 231 Calculus I.....	4
Math 232 Calculus II .....	4

## Psychology

A background in psychology is essential in today's complex society to gain an understanding of why people behave as they do and how individuals may achieve their potential. The School of Psychology offers a rich variety of courses. Students may learn about human sexuality, mental illness, African-American social psychology, and stress. There are courses on educational, social, and forensic psychology, and the entire human life span from childhood to old age. Students may explore the brain and nervous system as well as fundamentals of psychological research, learning, cognitive processes, sensation and perception, personality, and motivation.

Many students choose to major or minor in psychology. This provides an excellent background for careers that involve working with people. Psychology students find work in business, counseling, education, and health care. A degree in psychology also provides a foundation for graduate work in the field. Roosevelt students have an excellent record achieving admission to some of the most competitive graduate programs in the country.

### General requirements for the BA and BS degrees

The School of Psychology offers two majors in psychology, one leading to a BA degree, the other to a BS degree. The School also offers a minor in psychology and a certificate in ABC Relaxation Training. Psychology majors are urged to consult their advisors concerning desirable course sequences related to their future work. Specific courses for the minor for the BS degree are not required. They should be selected after consultation with an advisor in both psychology and the discipline of the minor. To determine the advisability of the BA versus the BS degree program, students should consult their advisor.

No more than five courses in psychology from other colleges and universities

will be accepted in fulfillment of the major requirements. At least one of the required 300-level psychology courses must be taken at Roosevelt. Psychology majors resuming their major after an interruption of two or more years must follow the psychology requirements in effect at the time students resume their studies.

Any student who renders paid or unpaid psychological services during the course of his/her affiliation with Roosevelt University must report the nature of the activities to the school director. A determination will then be made as to the student's competence to provide such services and the adequacy of the professional supervision. If the circumstances are found to be proper, the student may continue. If not, the student will be asked to stop immediately. Failure of a student to report such activity or failure to comply with the School's recommendation will be grounds for excluding the student from the program in psychology. The term "psychological services" is broadly construed to refer to psychometry, psychotherapy, guidance, counseling, and/or hypnosis.

#### Major in Psychology leading to a BA degree

To earn a BA in psychology, students must complete 11 courses in psychology with a grade of C or higher. Students who take more than the required number of courses must have 11 courses with grades of C or better and an overall grade point average of at least a C in psychology. Psyc 103 must be taken as soon as the major is declared.

Psyc 103 General Psychology .....	3
Psyc 285 Research Methods .....	3
Psyc 380 Integrative Seminar.....	3
Eight psychology courses, at least three at the 300 level .....	24

Students intending to pursue graduate work in psychology are strongly advised to include Psyc 200 and Psyc 270 in their curriculum because these courses are frequently required for admission into graduate programs.

#### Major in Psychology leading to a BS degree

To earn a BS in psychology, students must complete 11 courses in psychology with grades of C or higher. Students must complete at least 60 semester hours in the natural sciences and/or psychology including a minor sequence of 15 semester hours in a second science discipline (biology, chemistry, computer science, mathematics, physical geography, or physics—exclusive of Math 099, 100, 105, and 110, and Geog 101-102). Students who take more than the required number of courses in psychology must have both 11 courses with grades of C or better and an overall grade point average of at least a C in psychology. Courses in the minor must be completed with grades of C or higher. Psyc 103 must be taken as soon as the major is declared.

Psyc 103 General Psychology .....	3
Psyc 200 Introductory Statistics .....	3
Psyc 270 Tests and Measurements .....	3

Psyc 285 Research Methods .....	3
Psyc 380 Integrative Seminar.....	3
Three courses chosen from the following.....	9
Psyc 307 Intermediate Statistics	
Psyc 310 Biological Psychology	
Psyc 316 Learning	
Psyc 326 Cognitive Processes	
Psyc 336 Biological Psychology II	
Three electives in psychology .....	9

### Minor in Psychology

Requirements for the minor are five courses in psychology, including a course in general psychology. At least two of these courses must be taken at Roosevelt University, one at the 300 level. All courses in the minor must be completed with grades of C or higher.

### Certificate in ABC Relaxation Training

This program is designed for educators, supervisors, and health professionals who wish to teach others the ABC Relaxation system. To complete the certificate, students must complete Psyc 373 or 473 and Psyc 379 or 479 with grades of B or higher.

### Certificate in Child and Family Studies

The Certificate in Child and Family Studies provides Roosevelt University undergraduates with an opportunity to learn about child development from an interdisciplinary perspective and addresses issues of parenting, schooling, and the place of children and families in society and culture.

Students pursuing the certificate will select from a range of courses offered by the College of Education and the Schools of Psychology, Policy Studies, and Liberal Studies within the College of Arts and Sciences. The certificate culminates with Psyc 398, a three-credit field placement course, involving substantive, direct interactions with children and families. In settings such as elementary school classrooms, child care facilities, after-school YMCA programs, or pediatric in-patient units in hospitals, students will gather first-hand experiences to complement their course work.

### Requirements

Four courses (12 credit hours) are required to earn a Certificate in Child and Family Studies. Students pursuing this certificate must choose three courses from the list below. Because of the interdisciplinary nature of this program, students must choose at least one course in an area/department outside of their major. The fourth course is the capstone Psyc 398 in which students complete a field placement in a setting that caters to children and families, such as school classrooms, child care facilities, after-school YMCA programs, or pediatric health care settings.

All four courses must be passed with a grade of C or higher. Two courses,

including the field placement, must be at the 300 level. In addition, only three credits of course work from another university may be applied towards the certificate. Additional courses may be approved by the certificate coordinator as they are offered.

Educ 210 Child Development for Educators  
or Psyc 254 Childhood and Adolescence  
Educ 311 Adolescent Development  
Sped 319 Exceptional Children and Youth  
Echd 305 Assessment in Early Childhood Education  
Echd 309 Child, Family, and Community  
Echd 334 Language Development  
Echd 381 High Risk Young Child  
Echd 382 Early Childhood Special Education Methods  
Read 339 Young Adult Literature  
Hist 367 Love, Sex, and Marriage in the Western World  
Hist 372 History of American Family Life  
Psyc 219 Child Psychopathology  
Psyc 225 Child Abuse and Neglect  
Psyc 299/381 Children and Families  
Psyc 388 Child Social Skills Training  
Psyc 392 Forensic Psychology II: Juvenile  
Soc 215 Sociology of the Family  
Soc 336 Aging, the Aged, and the Family

## Public Administration

The study of public administration is the study of the skills, the art, and the science of administration of programs in the public sector. The undergraduate program is designed to provide both an interdisciplinary education and an introduction to professions in the public and nonprofit sectors. The program includes education in the essential areas of American government and political systems, economics, statistical analysis, and computer utilization. Students are introduced to the practice of public administration; to public policy analysis, formation, and implementation; to the skills of planning, communication, decision making, and organizational management; and to the issues and problems that face public administrators in the various applied fields of government and nonprofit administration.

Students in the program benefit from the diverse resources and distinctive public administration context of the Chicago metropolitan area as well as from their analysis and exploration of historical and contemporary case studies of national relevance. Students also benefit from instructors who are experienced and

practicing public administrators and leaders in the government and nonprofit sectors. Most courses are offered in the evenings and on weekends to accommodate students who work full-time.

Undergraduates majoring in public administration will be exposed to the basic theories, professional skills, sociopolitical contexts, and ethics that undergird the practice of sound, effective, and efficient administration of the public sector. A degree in public administration provides students with the ability to work in a variety of employment sectors, such as government agencies, interest groups, the private sector that deals with government regulations, and nonprofit organizations.

### Major in Public Administration leading to a BA degree

In addition to the general education requirements for the bachelor of arts degree, the program requires a minimum of 42 semester hours, including an internship, with a grade of C or higher in each course. The BA degree with a major in public administration is not a terminal professional degree; it prepares students for graduate and other advanced education. All students take a series of core requirements and concentration courses. Concentration courses are selected with the advisor and may be chosen from public administration, political science, sociology, or other appropriate areas.

Padm/Pos 101 Politics in America .....	3
Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Pos/Soc 290 The Research Process.....	3
Padm 300 Introduction to Public Administration .....	3
Padm 371 Public Policy Making and Implementation.....	3
Padm 398 Internship in Public Administration.....	3
Padm 318 Emerging Issues in Management or Padm 348 Leadership in Public Policy .....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
An urban or suburban policy course.....	3
Pos 351 Politics of Chicago or Pos 362 Urban Politics.....	3
Three courses in one of the following concentrations: criminal justice, government, health services, or nonprofit management .....	9

## Public Relations

(See Journalism and Communications)



## Social Justice Studies

### Major In Social Justice leading to a BA degree

Students majoring in social justice studies complete 11 courses (33 semester hours) related to social justice in a variety of disciplines. After completing the required freshman- and sophomore-level classes, students will select a specialization in one of two tracks: Housing, Neighborhoods, and Community or Movements for Social Change. The capstone experience is either an internship in an organization with a social justice mission or a senior thesis.

#### Freshman year:

Socj 201 Introduction to Social Justice Studies.....	3
Two courses chosen from the list below.....	6
Econ 214 Economics of Globalization	
Pos 101 US Politics	
Soc 101 Introduction to Sociology	

#### Sophomore year:

Pos/Soc 290 The Research Process.....	3
Two courses chosen from the list below.....	6
Libs/Pos/Soc 245 City and Citizenship	
Econ 205 The American Economy	
or Econ 207 American Economic Development Since 1945	
Libs/Pos 241 Environmental Problems of Metropolitan Areas	
Soc 210 Contemporary Social Issues	
Libs/Hist 254 Social Justice: History, Issues, Strategies	

#### Housing, neighborhoods, and community track:

Four courses chosen from the list below.....	12
Econ 309 Economics of Urban Inequality	
Econ 352 Urban Economic Development	
Pos 336 Urban Gentrification	
Pos 362 Urban Politics	
Soc 320 Sociology of Inequality	
Soc 325 Sociology of Education	
Soc 327 Race and Inequality	
Soc 346 Community Organization	
Soc 396 Suburban Policy Issues or Pos 365 Suburban Policy	
Soc 397 Urban Policy Issues or Pos 363 Urban Policy	

#### Movements for social change track:

Four courses chosen from the list below.....	12
Econ 308 Women and the Economy	

Econ 309 Economics of Urban Inequality  
 Hist 327 US Labor History  
 Hist 383 History and Politics of Women in the US  
 Pos 312 The Politics of Lesbian and Gay Communities  
 Pos 367 Social Movements  
     or Hist 337 History of Reform Movements in the US  
 Pos 385 African-American Politics  
     or Hist 339 The African-American Experience in the 20th Century  
     or Hist 382 Black Chicago's History and Culture Since 1960  
 Pos 386 Latin American Politics  
     or Pos 384 Mexican-American Politics  
 Soc 312 Social Change  
 Soc 320 Sociology of Inequality  
 Soc 325 Sociology of Education  
 Soc 346 Community Organization  
 Soc 353 Health, Illness, and Medicine in American Society

Capstone experience:

Socj 395 Internship  
 or Socj 390 Senior Thesis ..... 3

#### Minor in Social Justice Studies

This interdisciplinary minor allows students to explore social justice in a variety of ways. They may focus on diversity issues, minority issues, ethnic relations, women's rights, economic, or workplace issues. Students may also explore career and intern options in organizations whose mission involves social justice. Mansfield fellows will be selected each year for scholarship assistance. For further information, call the program director at 312-341-3799.

Five courses are required for the minor including two core courses and three electives. At least two courses must be completed at Roosevelt University. All courses in the minor must be passed with grades of C or higher. Additional courses are available each semester; consult with the advisor for course options.

# Walter E. Heller College of Business Administration

## Walter E. Heller and Alyce DeCosta

Over his lifetime, Walter E. Heller developed the skills and expertise to create a world-known organization. As a young man he was given the responsibility to oversee his father's successful sausage casing business. Being a resourceful and meticulous entrepreneur, Walter expanded to jewelry and then automobile financing. As his prosperity grew, so did his vision. Whatever the business at hand, Heller pursued it with vigor. He was the first to arrive on the job in the morning and the last to leave at night. During the 1930s, Heller expanded into the rediscount business and then factoring. Walter Heller's firm became the preeminent asset-based commercial lender and factor from the 1940s through the 1960s. Heller's firm was the Cadillac of its industry, loaning money to flamboyant and high profile Hollywood movie studios, including United Artists Corporation. In 1956, Heller's stock began trading over the New York Stock Exchange. Through its growth, the firm acquired companies, divested companies, and expanded overseas. Business Week magazine summarized Heller's reach in a 1958 article stating the company "served as a funnel through which 1,800 stockholders, 76 banks, and 10 insurance companies extended credit to some 500 manufacturing distributors, small-loan, and auto-finance companies."

In 1969, Walter E. Heller died at the age of 78. With the generous support of his widow, Alyce DeCosta, and the Walter E. Heller Foundation, a gift of \$2 million enabled Roosevelt University to construct a 10-story classroom, laboratory, and library facility. Alyce DeCosta established the Walter E. Heller Lecture Series in International Business and Finance and currently serves as a member of the Board of Trustees. The College proudly carries the name of Walter E. Heller College of Business Administration for Roosevelt University.

## Mission

The mission of the Walter E. Heller College of Business Administration (WE-HCBA) is to give students a career-oriented business education that emphasizes personal and professional integrity and that stresses social responsibility in business. For undergraduates, the focus is on acquisition of basic competencies in the following areas: communications, computers, quantitative analysis, critical and creative thinking, and breadth of business knowledge.

At the graduate level, the emphasis is on the integration of basic competencies with specialized education to create expertise in one of the functional areas of business. For both undergraduate and graduate students, the recurring themes of integrity and social responsibility are interwoven into the curricula, thus reflecting the progressive principles exemplified in the lives of the University's

namesakes, Franklin and Eleanor Roosevelt.

## Accreditation

The undergraduate and graduate business programs of the Walter E. Heller College of Business Administration are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). University business programs worldwide pursue this recognition, and ACBSP accredits approximately 10 percent of business programs in the United States and a few outside the United States. ACBSP accreditation is a mark of distinction in that accredited programs must meet national and international standards for teaching excellence, achieving learning outcomes, mission-based strategic planning, and continuous improvement.

## Degree Programs

The WEHCBA grants the degree of Bachelor of Science in Business Administration (BSBA). Each student chooses a major from among accounting, economics, finance, human resource management, risk management and insurance, management, and marketing. Five graduate business degrees are also offered. The Master of Business Administration (MBA) is a general management degree with a chosen area of specialization. Four specialized master of science degrees are offered in accounting (MSA), human resource management (MSHRM), information systems (MSIS) and international business (MSIB).

## General Business Minor

A business minor is available to students from the four other colleges of Roosevelt University. The requirements are seven courses in business, including four required courses and three upper-level business courses approved by the student's advisor. A student may choose a general business minor, using courses such as Mgmt 358, Mktg 302, and Fin 311, or a more specialized business minor in an area such as accounting, human resource management, finance, management, or marketing. Students must complete all prerequisites for courses in their chosen minor areas, including junior standing for 300-level courses. At least three courses in the minor must be taken at Roosevelt University.

Acct 210 Introduction to Accounting I .....	3
Acct 211 Introduction to Accounting II .....	3
Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Three upper-level business electives .....	9

## Bachelor of Science in Business Administration

The BSBA degree is conferred upon regular students who complete a minimum of 120 semester hours, enrollment requirements, and all specific degree requirements listed below.

General education and writing requirements  
for students entering with less than 30 semester hours

### University Writing Requirement

Eng 101 Introduction to Composition (grade of C or better).....	3
Eng 102 Argumentation, Analysis, Research (grade of C or better)...	3
Other courses, if necessary, to complete UWR	

### General education

Math 116 Finite Mathematics (grade of C or better) .....	3
Math 121 College Algebra .....	3
Econ 101 Principles of Economics I (grade of C or better).....	3
Econ 102 Principles of Economics II (grade of C or better).....	3
Econ 234 Elementary Statistics .....	3
Natural science (excluding mathematics and computer science).....	3
Social and behavioral sciences (excluding Econ 101, Econ 102, Econ 234, and Psyc 200) .....	6
Fine arts and humanities .....	6
Liberal Studies 111 Great Ideas I.....	3
Liberal Studies 112 Great Ideas II.....	3
Roosevelt Signature Course .....	3
Non-business elective .....	3
Total writing requirement and general education .....	48

Higher-level mathematics may be substituted for Math 116 and 121 with permission. Econ 234 may be replaced by Math 217 or Psyc 200 with permission.

### Students entering with 30 to 89 semester hours

All requirements listed above for students entering with less than 30 semester hours must be completed by students entering with 30 to 89 hours with the exception of Libs 111 and 112. These courses are replaced by two non-business electives.

### Students entering with 90 semester hours or more

All requirements listed above for students entering with less than 30 semester hours must be completed by students entering with 90 or more semester hours with the exception of Libs 111, Libs 112, and the Roosevelt signature course. These courses are replaced by three non-business electives.

### Business requirements for all students

All freshmen/sophomore requirements must be completed with grades of C or higher. A business elective is substituted for the international perspective course if an international course is in the major. Badm 380 must be taken at Roosevelt and passed with a grade of C or higher. One grade of D may be used in the remaining junior/senior core courses unless a C is required by the major.

### Freshman/sophomore requirements

Acct 210 Introduction to Accounting I.....	3
Acct 211 Introduction to Accounting II.....	3
Acct 201 Business Law I.....	3

### Junior/senior core requirements

Bcom 301 Business Communications.....	3
Badm 304 Business and Society or Badm 308 Ethical Leadership and Corporate Responsibility.....	3
International Perspective: Badm 360, Acct 337, Fin 354, or Mktg 362	3
Fin 311 Business Finance .....	3
Inf 330 Management Information Systems .....	3
Mgmt 300 Operations Management .....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
Mktg 302 Marketing Management.....	3
Badm 380 Business Policy and Strategy .....	3
Major requirements.....	minimum of 18
Total business requirements.....	54

Electives in business or non-business areas ..... 18

Total semester hours for BSBA (including general education requirements)  
120

### Majors

Each business student must choose a major area of specialization. The accounting, finance, human resource management, risk management and insurance, management, and marketing majors require six courses. The interdisciplinary major requires nine courses. Those majors that require more than six courses reduce the number of general electives the student may take.

Specific requirements for individual majors are listed under each discipline. All courses in the major must be passed with grades of C or higher. Each major has additional course(s) which require a grade of C or higher.

Accounting: Acct 210 and Acct 211  
 Finance: Fin 311  
 Human Resource Management: Mgmt 358  
 Risk Management and Insurance: Fin 311

Management: Mgmt 300 and 358  
Marketing: Mktg 302

### Interdisciplinary major

Students whose career interests span two or more traditional business areas may complete an interdisciplinary major. This major includes nine courses of which at least five must be in a single functional area (accounting, economics, finance, human resource management, insurance and risk management, management, or marketing). In the past, students have combined such areas as accounting and finance, marketing and finance, and finance and economics. This major must be approved in advance by the chairs or directors of the relevant areas.

### Specialized business minors

Students may also complete a specialized business minor in an area outside the major. The requirements are four courses in one area at the 300 level without overlap with the major requirements. At least three of the courses must be taken at Roosevelt University, and all courses must be passed with grades of C or higher. Students must complete all prerequisites for courses in their chosen minor area.

Accounting: Acct 304, 305; two Acct electives at the 300 level.

Finance: Fin 301, 321; one of Fin 383, 385, or 387; one Fin elective at the 300 level.

Human resource management: Hrm 311, three of Hrm 313, 321, 331, 360, and 361.

Marketing: Mktg 324, 331, 340 and 344.

Management: Mgmt 398; three Mgmt or Hrm electives at the 300 level.

Risk management and insurance: Fnsv 300, 350, two electives in Fnsv at the 300 level.

International business: Acct 337, Mktg 362, Fin 354, and Badm 360.

### Minor in hospitality and tourism management

A business student may also minor in hospitality and tourism management. The requirements are 18 semester hours in hospitality management courses as listed below. Students pursuing this minor should be advised on course selection by a hospitality management advisor. At least 15 semester hours of the minor sequence must be taken at Roosevelt University.

Hosm 201 Introduction to Hospitality and Tourism Management ....	3
Hosm 300 Managerial Accounting .....	3
Four hospitality management electives at the 300 level.....	12

### Minor in economics

The requirements for the minor in economics are as follows:

Economics 101 and 102 .....	6
Economics 321 or 323.....	3
Three economics electives, one at the 300 level .....	3

### Course scheduling

WEHCBA recommends that students follow the schedule below for the sequential completion of all University, College, and course requirements. Business students must complete all freshman and sophomore prerequisites before enrolling in advanced business courses. Students should start course work in their majors after completing 60 semester hours. Those who are undecided about their majors should consult an advisor in the WEHCBA regarding course selection. Students seeking an interdisciplinary major should consult the appropriate school directors.

Students should complete all of the requirements listed below within the first 60 semester hours:

- University Writing Requirement
  - Eng 101 Introduction to Composition
  - Eng 102 Argumentation, Analysis, Research
  - Other courses, if necessary, to complete UWR
- Libs 111-112 Great Ideas I-II
- Acct 210-211 Introduction to Accounting I-II
- Econ 101-102 Principles of Economics I-II
- Math 116 Finite Mathematics
- Math 121 College Algebra
- Acct 201 Business Law I
- Econ 234 Elementary Statistics (or Math 217 or Psyc 200 with permission)
- Roosevelt signature course

Students should fulfill the requirements listed below after they have completed 60 semester hours:

- Bcom 301 Business Communications
- Badm 304 Business and Society
  - or Badm 308 Ethical Leadership and Corporate Social Responsibility
- Infs 330 Management Information Systems
- International Perspective (Badm 360, Acct 337, Fin 354, or Mktg 362)\*
- Fin 311 Business Finance
- Mgmt 300 Operations Management
- Mgmt 358 Behavioral Science and Organization Theory
- Mktg 302 Marketing Management
- Badm 380 Business Policy and Strategy (may be taken only after completion of all
  - above business courses; must be taken at Roosevelt preferably in the



final semester  
prior to graduation.)  
All remaining major, required, and elective courses

\*If a student completes an international course in his/her major (such as Acct 337 for an accounting major), that course counts in the major and an upper-level business elective is substituted in the core.

### Graduation

A regular student in good standing may become a degree candidate when he/she has completed a minimum of 120 semester hours of credit with a minimum grade point average of C. At least 18 semester hours in the major must be passed with grades of C or higher, including transfer work. Badm 380 must be passed with a grade of C or better. Only one D is allowed in the junior/senior core requirements (Bcom 301, Badm 304, International Perspective, Fin 311, Mgmt 302), unless a grade of C is required by the major.

### Enrollment requirements

All University enrollment and quantitative requirements must be met. At least 30 semester hours of classroom credits must be completed at Roosevelt University during each student's senior year. Credits by proficiency and CLEP examinations do not fulfill this requirement. At least 27 semester hours in business courses must be taken at Roosevelt including Badm 380 and at least 12 semester hours in the major. No more than 30 semester hours earned as a special student may be counted toward the BSBA degree. No more than six semester hours of independent study may be applied to the BSBA degree. Independent study credit is available only for subject areas not covered by regular course offerings. All independent study credit must be approved in advance by the instructor, the instructor's school director, and the dean.

### Transfer credit

Credits are accepted only from junior or senior colleges that are accredited by a regional accreditation organization. All transfer students must satisfy the University Writing Requirement which may include taking English 099 and/or 100. No exceptions are made. See University Writing Requirement. Each transfer course is evaluated to confirm that it includes all topics included in the corresponding Roosevelt course. Regardless of title, courses considered inappropriate or not equivalent will not be accepted. Students with questions regarding transfer credit should consult an advisor.

All major requirements are taken at the 300 level. Students who wish to have community college courses applied to the major requirements must have specific permission from their school director.

### Advising

Business majors should contact the WEHCBA advising center at either campus. In order to facilitate graduation on a timely basis, all students should see an advisor each semester. Any course waivers or substitutions should be approved in writing and placed in the student's file both in the College and the Registrar's Office.

### Double major

Students who want a double major must complete an additional 18 semester hours in the second department as well as all of that department's requirements. Students may declare a double major while completing the first bachelor's degree. Usually a double major requires students to complete more than 120 semester hours for the degree. See an advisor for specific information.

### Second bachelor's degree

To receive a second bachelor's degree, a student must fulfill all of the requirements for the degree, including University, College, major department, and enrollment requirements, including a minimum of 30 semester hours. Students are eligible for a second degree only after the first degree has been awarded.

### Internship opportunities

Well-qualified juniors and seniors may be eligible for internship positions at local firms. These internships provide practical professional experience to complement classroom learning. Academic credit may be available.

## School of Accounting and Business Law

The accounting program is designed to offer students the opportunity to study traditional and contemporary areas of accounting. The program offers a wide variety of courses which expose students to both established accounting standards and emerging accounting issues.

Courses in accounting have been designed to meet the following objectives:

- n Teach the concepts and skills necessary to provide accounting services for businesses, governmental agencies, and not-for-profit organizations; and to control, plan, and evaluate the results of operations.
- n Provide an advanced accounting education to those seeking employment in auditing, financial or managerial accounting, taxation, and other accounting services.
- n Provide basic preparation for professional examinations such as the CPA, CMA, and CIA.

**Major in Accounting leading to a BSBA degree**

Acct 304 Intermediate Accounting I.....	3
Acct 305 Intermediate Accounting II .....	3
Acct 307 Income Tax Law and Procedure.....	3
Acct 313 Cost and Managerial Accounting.....	3
Acct 330 Principles of Auditing .....	3
One accounting elective (Acct 320 or Acct 328 is recommended) ....	3

**School of Finance and Financial Services**

These programs have been designed to offer students the opportunity to major in both traditional and emerging financial fields. Course offerings in the areas of finance, investments, and insurance and risk management give students a broad exposure to contemporary issues in the financial world. Courses in finance have been designed to meet the following objectives:

- n Teach the concepts and skills necessary to provide funds for a business and to control, plan, and evaluate the flow of funds through the enterprise.
- n Provide advanced education in business finance to those seeking employment in corporate finance, banking, securities exchanges, and personal financial planning.

**Major in Finance leading to a BSBA degree**

At least six courses in finance and related fields must be completed with grades of C or higher for the major in finance.

Fin 301 Money and Banking.....	3
Fin 321 Investments .....	3
One of Fin 383, Fin 385, or Fin 387 .....	3
One finance elective.....	3
Two electives in finance or financial services (excluding Fin 311) or chosen from the following:.....	6
Acct 304-305 Intermediate Accounting I-II	
Acct 307 Income Tax Law and Procedure	
Econ 323 Price Theory	
Econ 338 Money and the Economy	
Econ 377 International Finance and Balance of Payments	
Math 269 Theory of Interest	

Other courses may be substituted with prior written consent of the director of the School of Finance and Financial Services. A minimum grade of C is required for Fin 311.

### Major in Risk Management and Insurance leading to a BSBA degree

The major in risk management and insurance has been designed to meet the requirements and demands of those fields. Potential career opportunities include, but are not limited to, underwriting, claims administration, loss control, risk management, insurance marketing, and benefits administration. At least six courses in insurance and risk management and related fields with grades of C or higher must be completed for the major.

Fnsv 300 Risk Management, Insurance, and Financial Services .....	3
Fnsv 310 Real Estate and Financial Services	
or Fin 321 Investments .....	3
Fnsv 320 Banking and Financial Services	
or Fin 301 Money and Banking.....	3
Fnsv 350 Risk Management.....	3
Choose one of the two-course sequences listed below .....	6
Fnsv 305 and Fnsv 311	
Fnsv 357 and Fnsv 360	

Other courses may be substituted with prior written consent of the director of the School of Finance and Financial Services. A minimum grade of C is required for Fin 311.

## School of Management, Marketing, Information Systems, and Human Resource Management

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### Human Resource Management

The objective of this program is to teach the fundamentals of management, professional, and technical competence in the management of human resources, and the attitudes and motivational skills necessary for developing employees. Managerial techniques that have been developed by experience and research to reconcile economic objectives with individual and group needs are emphasized. Other courses expand on substantive areas in human resource management that are briefly covered in the introductory course. Psychological and sociological principles, statistical techniques, and practical business economics are blended to produce effective knowledge and skill for the specialist in human resource management.

Other departments in the University, such as economics and psychology, offer courses that enable students in human resource management to vary their study of the employer-employee relationship. Students majoring in human resource management should be aware that there is no substitute for experience in dealing with people in a work situation. Students are advised to acquire such experience through part-time work or internships.

### Major in Human Resource Management leading to a BSBA degree

Six courses are required for the major. All courses in the major as well as Mgmt 358 must be completed with grades of C or higher.

Hrm 311 Introduction to Human Resource Management .....	3
Hrm 313 Wage and Salary Administration .....	3
Hrm 321 Employment Techniques.....	3
Mgmt 398 Organizational Development.....	3
Two electives in human resource management or management .....	6

## Information Systems

WEHCBA does not currently offer an undergraduate major in information systems.

## Management

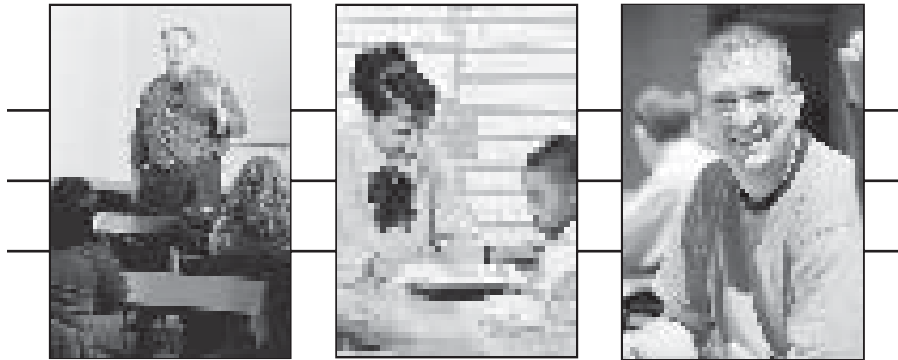
The management curriculum is designed to emphasize human values and a sense of responsibility to employers, employees, consumers, and the community. The curriculum provides professional education and training for students preparing themselves to manage their own businesses or to seek managerial positions in private industry or the public sector.

Managers are responsible for planning, organizing, directing, controlling, and representing a business or organization to its many constituencies. To be effective, managers must coordinate the work of specialists. It is essential that a manager possess an understanding of human relations, skill in directing group efforts, and knowledge of the functional aspects of business, such as production, marketing, finance, personnel, and accounting. Students majoring in management study the many areas in which managers must operate as well as topics directly related to managerial roles.

### Major in Management leading to a BSBA degree

The management major requires six courses in management, human resource management, and/or information systems. Mgmt 300 and 358 are required core courses and are not used to fulfill management major requirements. All courses in the major as well as Mgmt 300 and Mgmt 358 must be passed with grades of C or higher.

Mgmt 398 Organizational Development.....	3
Hrm 311 Intro to Human Resource Management.....	3
Four electives in management, human resource management, and/or information systems .....	12

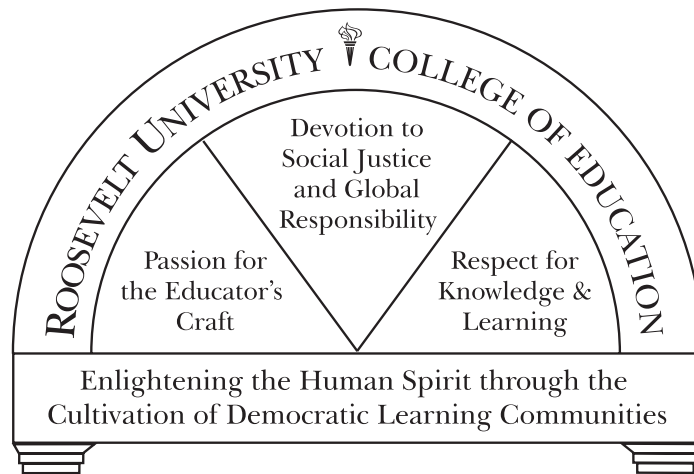


## College of Education

The College of Education is committed to providing academic programs of high quality to undergraduate students who seek to become professional educators. Through the continuous evaluation and refinement of the academic program, offerings are kept current and relevant to the needs of a diverse student body. Faculty members continually seek to develop a creative and humane environment for learning. All education programs are accredited by the National Council for Accreditation of Teacher Education (NCATE), and all certificate programs are approved by the Illinois State Board of Education (ISBE).

### College of Education Conceptual Framework

In 1999, as part of the ISBE and NCATE accreditation self-study, the College of Education revised the conceptual framework that represents the knowledge base of the College. The conceptual framework reflects the design of the cur-



ricula, which is based on philosophical foundations, theoretical models, and practical applications of essential knowledge in the field of education. The conceptual framework is the foundation for all activities in the College. The model includes the purposes, processes, outcomes, and overall evaluation of the conceptual framework.

Faculty members bring diversity of experience and excellence in academic training to their work at Roosevelt. Active in a variety of research areas and dedicated to the improvement of the practice of teaching, the faculty of the College of Education provides the high quality academic experience demanded of today's prospective teachers. More than 90 percent of the faculty have received advanced degrees from institutions such as Northwestern University, University of Wisconsin, Loyola University of Chicago, Harvard University, Northern Illinois

University, Cleveland State University, University of Michigan, University of Illinois, Indiana University, and University of Chicago.

## Department of Teacher Education

Within the College of Education, the Department of Teacher Education is the only department to offer undergraduate degrees and programs. Students may select from programs in early childhood education, elementary education, secondary education, and special education. Students enrolled in early childhood education, elementary education, and special education major in education and receive a BA in Education (BAE). Students enrolled in secondary education major in an academic discipline in the College of Arts and Sciences or the Walter E. Heller College of Business Administration, and minor in secondary education. Information regarding student pass rates on state exams and other program information, as required by federal law, is available from the College of Education.

Graduates of these programs are entitled to Roosevelt University's recommendation for one of the following Illinois initial teaching certificates: early childhood, birth through grade 3 (Type 04); standard elementary, grades K through grade 9 (Type 03); standard high school, grades 6 through 12 (Type 09); standard special in music, grades K through 12 (Type 10); or standard special education, pre-K through age 21 (Type 10). Students may also earn special education, bilingual, or ESL approval. Students completing the above programs should apply for the appropriate State of Illinois teaching certificate during the last semester of their course work. For an application form and information, contact the certification officer of the College of Education.

In order to qualify for a Roosevelt University recommendation for a certificate, students must meet all requirements in effect at the time of application. Before issuing a certificate, the Illinois State Board of Education requires satisfactory scores on the Illinois Certification Testing System Test of Basic Skills, the appropriate subject matter knowledge test, and the Assessment of Professional Teaching (APT). Test dates, registration forms, and study guides are available online. Information may be obtained in the main offices of the College of Education at both campuses. In Chicago, the office is in Rm 362 of the Auditorium Building, 312-341-3700; in Schaumburg, Rm 517, 847-619-8820.

The University has established a procedure under which students may bring grievances concerning their certificate entitlement. For information about this procedure, consult the Department of Teacher Education Student Handbook.

### Bachelor of Arts in Education (BAE) and secondary education minor

#### Admission

Before enrolling in education courses, all students must present evidence of their capabilities and potential to implement high quality teaching practices informed by the conceptual framework of the College of Education. At a



minimum, students must show that they have taken the Roosevelt University Assessment test, achieved a minimum of 2.5 grade point average out of 4.0 points for all collegiate work, completed their English and mathematics requirements with grades of C or higher, and passed the ICTS Test of Basic Skills.

After completing six credit hours of course work in education, all students should contact the appropriate program director and complete a written application form for continuing enrollment. A tentative course of study to meet the student's professional goals will then be outlined and a faculty advisor assigned. A waiver for a criminal background check also will be required prior to enrollment in any courses requiring observation or field placement.

Students in early childhood education should apply for continuing enrollment after satisfactory completion of their first semester of early childhood education course work. Students in elementary education and special education should apply for continuing enrollment after completing Educ 200, Educ 210, and Eled/Sped 261 (students must earn a grade of B or higher in each course). Students in secondary education should apply for continuing enrollment upon satisfactory completion of Educ 200 and Educ 210.

#### General requirements

Students in early childhood education, elementary education, and special education must satisfy the basic degree requirements of the College of Arts and Sciences, including the University Writing Requirement, Great Ideas, and liberal studies course work. Students in secondary education must satisfy the basic degree requirements of the College of Arts and Sciences or the Walter E. Heller College of Business Administration. In addition, all students enrolled in teacher education programs must fulfill general education requirements for teacher certification. These requirements are subject to change based on actions of the Illinois State Certification Board, Illinois State Board of Education, or Illinois legislature. Students are responsible for maintaining regular contact with their faculty advisor to remain aware of current requirements.

Students are responsible for complying with all procedures and degree requirements in this catalog and in the Department of Teacher Education Student Handbook. A faculty advisor will work closely with each student to plan each semester's program. It is the student's responsibility to be certain that all requirements are fulfilled. The Department expects students to maintain at least a 2.5 cumulative grade point average. Some program areas require a 3.0 average in the major area courses, general education requirements, education courses, and area of concentration. Please check with your respective program area. Grades below C in major courses are not acceptable toward meeting degree requirements.

No more than 66 semester hours will be accepted as transfer credit from a two-year institution. The final 54 semester hours toward the BAE degree or

secondary education minor must be earned at a regionally accredited four-year college or university. At least 30 semester hours must be earned at Roosevelt University. No transfer credit for a course in education will be accepted unless an official course description is submitted and it is determined that the work completed was equivalent in level and content to a Roosevelt University course required for a degree in education. A grade of C or higher or an acceptable evaluation of the student's performance is required. Once a student is enrolled, all subsequent course work must be taken at the University.

Screening and evaluation are continuous processes in the Department of Teacher Education. Admission and retention are dependent upon satisfactory performance throughout the program. The Department views the advising process as a continuing one; students are expected to meet and discuss their course of study with their faculty advisor each semester.

#### Major and minor requirements

Students must satisfy all the courses and field experiences listed for their programs. All professional education course work must be taken at Roosevelt University following the successful completion of the general education requirements and admission to the program.

#### Clinical experience

Through the Office of Field Placement, the Department of Teacher Education offers a wide variety of field experiences designed to meet the goals of the teacher education programs. Extensive contact with the classroom and first-hand experience in dealing with everyday problems of teaching are critical components of teacher education and are organized within courses. Pre-student-teaching experiences and student teaching, the culminating course, satisfy State of Illinois certificate requirements. Experiences in schools consist of involvement in the classroom and school as an observer, tutorial teaching, small group coaching, whole class instruction, and participation in school and community activities. Field sites range from the city to the suburbs and must include placements in culturally diverse settings. Placement for the courses takes into consideration the individual student's academic needs and interests. In addition, before field placement, a criminal background check and application are required. The student's advisor and the director of field services jointly arrange all clinical placements.

#### Student teaching

Student teaching represents the culmination of teacher education at Roosevelt University. Applicants for student teaching are expected to be in good physical health; free from severe mental difficulties; and prepared, with more than minimum scholastic standing, in both content area and professional education. Therefore, student teaching is open only to those students who have success-

fully completed the appropriate general education, professional education, and area of concentration or major requirements, as well as other requirements created by the Illinois State Board of Education or the Illinois legislature, such as the ICBS subject matter test. A weekly seminar brings students together to discuss their student teaching experiences. A minimum 2.5 cumulative GPA must be maintained. Applications for student-teaching placements must be submitted according to the following schedule. Late applications will not be accepted.

Early Childhood placement	December 1 for placement the following fall	April 1 for placement the following spring
Elementary Education placement	December 1 for placement the following fall	April 1 for placement the following spring
Special Education placement	November 1 for placement the following fall	March 1 for placement the following spring
Secondary Education placement	November 1 for placement the following fall	March 1 for placement the following spring

#### Application for graduation

When students meet with their faculty advisor before registration for the final semester, they should confirm that all requirements for graduation have been met. Students must make formal application for graduation, and completed applications must be on file in the Office of the Registrar by the posted deadline.

#### Job placement

The Roosevelt University Office of Career Services maintains a service to assist graduates. Students should contact this office during their final semester in order to establish a permanent file of their credentials.

#### Technology resources

In addition to the student computer labs maintained by the University, the College of Education maintains one lab at each campus in which educational software can be previewed. This lab is also used for classroom instruction.

#### Evaluation of instruction

Students are given an opportunity to evaluate programs and instructors at the end of each semester. A form is completed by students at the end of each course. Responses are anonymous; they are used as one of the ways in which the department assesses the quality of its teacher education programs.

### Academic integrity

The College of Education considers academic integrity to be a foundation of community. See the explanation of the policies and a description of acts of academic dishonesty in the Student Handbook.

### Department of Teacher Education Student Handbook

Every student should read the Student Handbook for explanations of policies and procedures. Copies are available in the College of Education offices on the Chicago and Schaumburg campuses.

### Early Childhood Education

#### Birth through Grade 3

The program in early childhood education is interdisciplinary in scope and practical in orientation. Its purpose is to prepare individuals to become educators in preschool, kindergarten, primary grades, state Pre-K and Head Start programs, or to be administrators in public or private child care centers. Students do a variety of diverse field placements and student teaching in public schools and private agencies serving children from infancy through third grade.

#### Required professional education courses:

Educ 210 Child Development.....	3
Echd 221 Introduction to Early Childhood Education .....	3
Educ 303 Health for Educators .....	3
Echd 305 Assessment in Early Childhood.....	3
Echd 309 Child, Family, and Community .....	3
Echd 311 History and Philosophy of Early Childhood Education .....	3
Sped 319 Exceptional Children and Youth.....	3
Educ 321 Creative Arts in Education .....	3
Echd 332 Pre-Primary Science, Math, and Social Concepts .....	3
Echd 333 Primary Science, Math, and Social Concepts in ECE.....	3
Echd 334 Language Development .....	3
Echd 337 Literacy Development in ECE (Reading & Lang Arts).....	6
Echd 382 Early Childhood Special Education Methods.....	3
Educ 385 Technology in the Classroom .....	3
Echd 374 Student Teaching and Seminar in ECE:	
Preschool/Kindergarten.....	6
Echd 375 Student Teaching and Seminar in ECE: Primary Grades.....	6

#### Recommended elective:

Educ 200 American Education

#### Field experience

Application for the two student teaching assignments required for pre-primary and primary, Echd 374 and 375, must be made with the advisor and director of field services two semesters prior to student teaching. Applications for field

experience assignments in Echd 221, Echd 333, Echd 337, Echd 382, and Sped 319 will be completed at the time of the first class session. Placements in diverse field sites are necessary.

### Certification requirements

In order to qualify for Roosevelt University's recommendation for the early childhood teaching certificate (Type 04), students must meet all requirements, including general education work specified by the Illinois State Board of Education, that are in effect at the time of their application for the certificate. Before issuing a certificate, the Illinois State Board of Education also requires satisfactory scores on the ICTS Basic Skills test, the Early Childhood subject matter test, and the Assessment of Professional Teaching (APT). Students must consult with their assigned faculty advisor to determine which courses (Roosevelt or transferred) are acceptable toward fulfillment of the Illinois requirements. Students graduating and applying for the early childhood education certificate must meet the following general education course requirements.

Communication skills: written communication .....	6
Mathematics: Math 105 and 115 are required.....	6
Science: must include biological and physical science; one must be a lab course.....	7
Humanities: English, history, literature, foreign language, fine arts, linguistics, philosophy. Must include American history .....	9
Social sciences: political science, economics, cultural geography, history, psychology, sociology. Must include American government .....	9
Non-Western/Third World/Multicultural: humanities or social science course; Asia, Africa, Central/South America, or Native American or their descen- dants in the US. May also be counted in humanities or social science	3
Academic concentration (nine sem hrs must be at the 300 level or above)	18
Total general education hours.....	55-58

Courses in American history or history may be applied toward either the humanities or the social science requirement. Great Ideas I and II are required if students enter Roosevelt University with fewer than 30 semester hours. Two liberal studies (Libs) courses are required if students enter Roosevelt with fewer than 90 hours. Effective Spring 2003, all students must complete Libs 201A, 201B, or 201C with a grade of C or higher.

For purposes of meeting the University's general education requirements, Educ 303, Educ 210, Educ 321, and Echd 305, may be counted among the 80 semester hours outside the area of major concentration. The academic concentration in early childhood education consists of 18 hours of course work in one discipline, approved by the advisor. Nine semester hours in the area of concentration must be taken at the 300 level. The 18 semester hours in the area of concentration may not be used to meet general education requirements.

## Elementary Teacher Education Kindergarten through Grade 9

The purpose of the elementary teacher education program is to prepare capable, dedicated, and concerned teachers who are committed to the intellectual, emotional, social, and physical growth of all children. Students need to understand and apply knowledge about human growth and development to the world of the classroom. Students are encouraged to develop observational skills and sound teaching practices that they can apply to their work with children in a variety of settings. They develop a sense of themselves as professional educators who can act as change agents in their schools. The College emphasizes the need for students to develop strong competencies in academic areas and communication skills.

Required professional education courses:

Educ 200 American Education.....	3
Educ 210 Human Development for Educators .....	3
Eled 261 Field Experience and Seminar .....	3
Educ 303 Health for Educators .....	3
Educ 319 Exceptional Children and Youth .....	3
Read 320 Teaching Reading in the Elementary School .....	6
Eled 321 Teaching Mathematics in the Elementary School .....	6
Educ 321 Creative Arts in Education .....	3
Read 323 Teaching Language Arts and Children's Literature in the Elementary School.....	3
Eled 325 Teaching Science in the Elementary School.....	3
Eled 327 Teaching Social Studies in the Elementary School .....	3
Eled 361 Pre-Student-Teaching Field Experience .....	3
Eled 366 Student Teaching and Seminar in the Elementary School..	6
Educ 385 Technology in the Classroom .....	3

### Field experience

Field experiences involve urban and suburban placements and must include culturally diverse student populations. Application for field experience assignments required for Educ 319, Eled 261, and Eled 361 must be made well in advance of registration.

Placement in student teaching is planned with consideration for each student's needs and interests. Each student is supervised by a College of Education faculty member as well as a resident, experienced teacher. Formal application is required approximately two semesters in advance of student teaching. It is open only to those students who have successfully completed all the appropriate general education, methods, and field experience courses as well as other certification requirements such as the subject area test required by Illinois state regulations.

### Certification requirements

The certification requirements for elementary education are the same as those for early childhood education. Students may choose from areas of concentration in science, mathematics, humanities, or social science, using the same guidelines as in early childhood education. Please see an advisor for more information.

### Secondary Teacher Education Grade 6 through Grade 12

The secondary teacher education program is designed for bachelor's degree candidates with appropriate academic majors who wish to become secondary teachers in business education, English, general science, mathematics, social studies, Spanish, or theatre arts. The student will pursue a minor in secondary education as a complement to the major area for certification. Evaluation of the equivalence of course work taken at other colleges and universities will be done by the appropriate program director and/or the faculty advisor. It is recommended that students make an appointment with a major program advisor and with a secondary education advisor during the first semester at Roosevelt University. Specific approved program requirements are available from secondary education advisors.

### Admission to program in secondary teacher education

Students wishing to pursue secondary education certification may not enroll for more than six hours of credit in education classes if they have not had their application approved by the secondary program faculty. Students transferring education credit from two-year colleges may request admission on probationary status. Transfer students must apply for continuing enrollment at the completion of their first semester at Roosevelt. Students seeking admission to the program in secondary teacher education must have the following:

- n GPA of 2.5 out of 4.0 for all college work completed prior to the time of application.
- n Successful completion of six semester hours in the professional education sequence, typically Educ 200 and Educ 210.
- n A positive reference from a member of the secondary education faculty.
- n A positive reference from the program director of the student's major.
- n Successful performance on the ICTS Basic Skills Test.

### Required courses:

Educ 200 American Education.....	3
Educ 210 Child Development for Educators: Infancy Through Adolescence or Psyc 215 Educational Psychology.....	3
Seed 301 Seminar in Secondary Education .....	3

Educ 319 Exceptional Children and Youth .....	3
Seed 350 Field Experience in Secondary Education.....	3
Seed 360 Student Teaching and Seminar in the Secondary School..	6
Educ 385 Technology in the Classroom .....	3
One course in methods of teaching in major fields.....	3
Seed 321 Methods of Teaching Secondary Business Education	
Seed 322 Methods of Teaching Secondary Science	
Seed 323 Methods of Teaching Middle School and Secondary Mathematics	
Seed 324 Methods of Teaching Foreign Languages	
Seed 326 Methods of Teaching Secondary Social Studies	
Seed 327 Methods of Teaching Secondary English	
Seed 332 Methods of Teaching Secondary Theatre Arts	

### Field experience

Field experiences involve urban and suburban placements and must include culturally diverse student populations. Application for field experience assignments required for Educ 319, Seed 350, and 360 must be made well in advance of registration. Students are enrolled in courses that include field experiences and are involved in classroom situations in a variety of ways: participant observation, tutorial, and large group activities. First-hand experience in the classroom is required. Some classes are held in public school sites.

Placement in student teaching is planned with consideration for each student's needs and interests. Students must be formally enrolled in the secondary education program; have successfully completed all the appropriate general education, methods, and field experience courses; and satisfied the College requirements. In addition, students must have successfully passed a subject matter test in their major. Each student is supervised by a College of Education faculty member as well as a resident, experienced teacher. Student teachers may neither engage in outside employment nor take any additional course work while they are student teaching.

### Certification requirements

Standards of academic competence are established and administered jointly by the major programs and the Department of Teacher Education. In order to qualify for Roosevelt University's recommendation for the grades 6 through 12 high school teaching certificate (Type 09), students must meet all requirements, including general education course work specified by the College of Arts and Sciences or the Walter E. Heller College of Business Administration and by the Illinois State Board of Education, that are in effect at the time of their application for the certificate. Before issuing a certificate, the Illinois State Board of Education also requires satisfactory scores on the ICTS Basic Skills Test and the appropriate subject matter knowledge test(s), and the Assessment of Profes-



sional Teaching (APT). Students must consult a secondary education advisor to determine which courses (Roosevelt or transferred) are acceptable toward fulfillment of the Illinois requirements. Students completing the program and applying for the secondary education certificate must meet the general education requirements listed below.

Communication skills: written communication.....	6
Mathematics: must be above Math 100.....	3
Science: must include biological and physical science .....	6
Humanities: English, history, literature, foreign language, fine arts, linguistics, philosophy. Must include American history.....	9
Social sciences: political science, economics, cultural geography, history, psychology, sociology. Must include American government .....	9
Non-Western/Third World/Multicultural: humanities or social science course; Asia, Africa, Central/South America, or Native American or their descen- dants in the US. May also be counted in humanities or social science	3



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# Chicago College of Performing Arts

Founded in 1997, the Chicago College of Performing Arts of Roosevelt University brings together the professional degree programs in The Music Conservatory and The Theatre Conservatory. The mission of the College is to nurture, support, and develop creative artists who are able to express most effectively what Ernest L. Boyer has called “the deepest concerns of the human mind and the highest aspirations of the human spirit.” By educating gifted performers and inspired teachers, the Chicago College of Performing Arts enriches our society beyond measure. Programs of study are administered by The Theatre Conservatory and The Music Conservatory, each of which is fully described in the following sections.

## The Theatre Conservatory

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The Theatre Conservatory of the Chicago College of Performing Arts is distinctively positioned to educate and train its students. The faculty of working professionals offers a program with a solid balance between academic courses and studio/performance work.

The Theatre Conservatory is located in Roosevelt University’s Chicago campus, home of the acclaimed Auditorium Theatre and the blockbuster hits *Les Misérables*, *Phantom of the Opera*, *Miss Saigon*, and *Show Boat*. Centered within the heart of downtown Chicago, one of America’s greatest theatre cities and home to over 100 professional theatre companies, the campus is within walking distance of world class arts institutions such as the Goodman Theatre, The Chicago Symphony Orchestra, The Art Institute of Chicago, and the Lyric Opera.

The Theatre Conservatory offers major and minor degree programs for those who desire careers in theatre or musical theatre, intend to pursue graduate studies in these fields, or seek a liberal arts education with a major in theatre.

Introductory level courses offer training in fundamental skills, while advanced courses help equip students with specific professional skills. Students intending to major in theatre or musical theatre should contact the coordinator for recruitment and student services at The Theatre Conservatory to schedule a required audition/interview time or to learn more about the programs.

### Admission requirements

Admission to Roosevelt University does not necessarily include admission to The Theatre Conservatory. Eligibility is determined by audition, interview, and three letters of recommendation. Admission to all courses in The Theatre Con-

servatory is by consent of a theatre faculty advisor unless listed in the catalog as being for nonmajors. Transfer students must also audition and receive consent to take advanced theatre courses. Transfer credit in theatre will not be validated until after satisfactory completion of one semester at Roosevelt. Transfer students must complete at least 30 semester hours at Roosevelt.

#### Academic and performance policies

All Theatre Conservatory students are required to earn minimum grades of C in all theatre courses required for graduation. The grade of D in any theatre course will not be considered a passing grade.

Theatre and musical theatre majors are required to audition for all University theatre productions, to perform any role in which they are cast, and to complete technical obligations as assigned. Accordingly, all students enrolled in programs in The Theatre Conservatory should arrange their schedules to allow ample time for afternoon and evening rehearsals.

Attendance at theatre and music performances in the Chicago College of Performing Arts is required every semester of enrollment. All undergraduate theatre and musical theatre majors must successfully pass a minimum of six semesters of performance attendance to qualify for the bachelor's degree. Specific requirements are announced each semester.

#### Professional internships

As an integral part of a student's training, The Theatre Conservatory encourages advanced students to work with professional theatre companies through specially arranged internships. The University has previously arranged internships with theatres such as The Goodman Theatre, Steppenwolf Theatre Company, Wisdom Bridge Theatre, The Body Politic Theater, Touchstone/Organic Theatre, as well as many other theatres in the Chicago area and throughout the nation. Qualified students may participate in internships in the areas of acting, directing, stage and arts management, design, theatre technology, business and marketing, public relations, development, and front of house.

#### The Theatre Conservatory health policy

Successful completion of a degree program in The Theatre Conservatory requires that a student be in good health and have the stamina required to participate safely. The Conservatory recommends that students have regular medical checkups and report any pre-existing vocal, physical, or psychological conditions that might affect their work to the appropriate faculty member.

Because of the specialized nature of the work involved in theatre training, a general physical may not be sufficient to detect conditions such as vocal or orthopedic pathologies. When deemed necessary by a faculty member, the recommendation will be made that a student consult a physician or special-

ist of the student's choice, in order to insure that participation in course work or rehearsals will not compromise the student's health. In cases where such a recommendation is made, a faculty member has the option of requiring documentation from a doctor that continued participation is not contraindicated before the student will be allowed to resume participation in the class or rehearsal. As much as possible, theatre faculty and the administration will work with students to adjust assignments and schedules as needed for vocal and physical or psychological rehabilitation. If, however, severe pathological conditions prevent satisfactory participation and progress in the training, a student will be requested to take a leave of absence from the program until sufficient health is regained.

### Major in Theatre leading to a Bachelor of Fine Arts degree Acting

This major requires a minimum of 103 semester hours of course work in theatre and music.

The degree requires a minimum total of 127 semester hours.

Thar 099 Performance Attendance (six semesters required) .....	0
Thar 206, 207 Fundamentals of Acting I and II .....	6
Thar 270 Creative Process.....	1
Thar 225, 226 Intermediate Acting I and II .....	6
Thar 292, 293 Theatre History and Literature I and II .....	6
Thar 247 Introduction to Technical Theatre.....	3
Thar 290 Introduction to Professional Theatre .....	1
Thar 220, 221, 231 Vocal and Physical Preparation I-III .....	9
Thar 232 Vocal and Physical Preparation IV: Shakespeare or Thar 205 Shakespeare.....	3
Thar 242 Vocal and Physical Preparation V: Stage Dialects .....	3
Thar 303 Beginning Play Writing .....	3
Thar 341 Stage Management.....	3
Thar 310 Stage Makeup .....	3
Thar 330, 331 Acting on Camera I and II .....	6
Thar 320 Acting for the Musical Stage I.....	3
Thar 380 Asian Theatre or elective in theatre .....	3
Thar 388 Advanced Acting: Period Styles.....	3
Thar 370 Advanced Creative Process .....	3
Thar 371, 372 Stage Combat I and II.....	6
Thar 375 Advanced Movement: Comedy and Character Techniques	3
Thar 348 Stage Directing .....	3
Thar 383 American Theatre History: Dramatic Visions of Social Justice	1

Thar 387 Shakespeare in Performance .....	3
Thar 340 Audition and Professional Issues.....	3
Thar 250/350 Rehearsal and Performance .....	var. sem. hours
Voice .....	var. sem. hours
Dance Technique.....	var. sem. hours
Eng 101, 102 Composition.....	6
Libs 111, 112 Great Ideas .....	6
One course in literature .....	3
Additional courses chosen from the areas listed below .....	3-12
African/African-American studies, anthropology, English, foreign language, history, liberal studies, philosophy, political science, psychology, sociology, women's and gender studies, other subject areas with permission of advisor.	

#### Major in Musical Theatre leading to a Bachelor of Fine Arts degree Acting

This major requires a minimum of 111 semester hours in theatre and music-related courses.

The degree requires a minimum total of 135 semester hours. Students with previous music theory and/or keyboard training may request the opportunity to test out of Mutc 100, 125, and/or 126. Students will replace any course from which they are exempted with electives.

Thar 099 Performance Attendance (six semesters required) .....	0
Thar 206, 207 Fundamentals of Acting I and II .....	6
Thar 270 Creative Process.....	1
Thar 225, 226 Intermediate Acting I and II .....	6
Thar 292, 293 Theatre History and Literature I and II .....	6
Thar 247 Introduction to Technical Theatre.....	3
Thar 290 Introduction to Professional Theatre .....	1
Thar 220, 221 Vocal and Physical Preparation I and II .....	6
Thar 232 Vocal and Physical Preparation IV: Shakespeare .....	3
Thar 242 Vocal and Physical Preparation V: Stage Dialects .....	3
Thar 303 Beginning Play Writing .....	3
Thar 324 History of Musical Theatre .....	3
Thar 310 Stage Makeup .....	3
Thar 370 Advanced Creative Process .....	3
Thar 371 Stage Combat.....	3
Thar 340 Audition and Professional Issues.....	3
Thar 320, 321, 322, 329 Acting for the Musical Stage I-III and V.....	12
Thar 326 Dance for the Musical Stage .....	3
Thar 380 Asian Theatre.....	3
Thar 383 American Theatre History: Dramatic Visions of Social Justice .....	1
Thar 388 Advanced Acting: Period Styles.....	3

Thar 250/350 Rehearsal and Performance .....	var. sem. hours
Mutc 100 Fundamentals of Music Theory .....	3
Mutc 125 Musicianship for the Singing Actor.....	3
Mutc 126 Keyboard Skills for the Singing Actor.....	3
Perf 116 Vocal Training and Ensemble for Musical Theatre.....	2
Voice .....	var. sem. hours
Dance Techniques .....	var. sem. hours
Eng 101, 102 Composition.....	6
Libs 111, 112 Great Ideas .....	6
One course in literature .....	3
Additional courses chosen from the areas listed below .....	12
African/African-American studies, anthropology, English, foreign language, history, liberal studies, philosophy, political science, psychology, sociology, women's and gender studies, other subject areas with permission of advisor.	

### Major in Theatre leading to a Bachelor of Arts degree

This major requires a minimum of 122 semester hours: 42 semester hours in theatre and related courses, and 80 semester hours in courses outside of the major. Students pursuing the BA degree in theatre must fulfill Roosevelt University's general education requirements, as detailed in the Arts and Sciences section of this catalog.

Participation in University theatre productions is required. Accordingly, theatre majors should arrange their schedules to allow ample time for late afternoon and evening rehearsals. All theatre majors are required to serve on technical crews as assigned.

Students seeking the Bachelor of Arts degree in another field who wish to pursue a double major may combine a major in theatre (40 semester hours, as listed below) with another major within the standard University requirement of 120 semester hours.

Thar 099 Performance Attendance (four semesters required) .....	0
Thar 206, 207 Fundamentals of Acting I and II .....	6
Thar 247 Intro to Technical Theatre .....	3
Thar 341 Stage Management.....	3
Thar 303 Beginning Play Writing .....	3
Thar 292, 293 History of the Theatre and Drama I and II.....	6
Thar 205 Shakespeare.....	3

Thar 348 Stage Directing I.....	3
Thar 383 American Theatre History: Dramatic Visions of Social Justice	1
Theatre electives.....	9
Thar 250/350 Rehearsal and Performance.....(minimum)	5
General education requirements and non-theatre electives.....	80
Minimum total.....	122

#### Concentration in performance art

This option is designed for theatre majors who wish to have an intensive experience in performance art. The concentration focuses on theory and practice in the creation of original works of performance where the performer is viewed as a primary creative artist rather than solely an interpretive one. It is intended for students seeking nontraditional and cross-disciplinary approaches to performance. The 18 semester hours required for the concentration are listed below.

Thar 385, 386 Performance Art I and II .....	6
Thar 375 Comedy and Character .....	3
Thar 351 Rehearsal and Performance: Performance Art Project.....	3
Additional classes beyond those required for the theatre major chosen in consultation with the designated advisor; at least three sem hrs outside theatre .....	6

#### Concentration in design/technical theatre and stage management

Theatre majors seeking more extensive experience in design/technical theatre and stage management may elect a concentration of courses designed to provide them with additional course work in these areas. Thar 247 and 341 are already required in BFA degree programs. The 18 semester hours required for this concentration are listed below.

Thar 247 Introduction to Technical Theatre.....	3
Thar 341 Stage Management.....	3
Thar 360 Sequence: Scenery, Lighting, Costume Design .....	9
Thar 342 Studies in Theatre Production: Special Topics .....	3

#### Minor in theatre

The requirements for a minor in theatre are 18 semester hours in theatre courses, as listed below, with grades of C or higher:

Thar 099 Performance Attendance (four semesters required) .....	0
Thar 290 Introduction to Theatre for Nonmajors.....	3
Thar 206 Fundamentals of Acting I for Nonmajors .....	3
Thar 247 Introduction to Technical Theatre.....	3
Thar 292, 293 History of the Theatre and Drama I and II.....	6
Theatre elective.....	3



## Dance

Dance classes in ballet, jazz, modern, tap, African, and hip hop are available to Roosevelt University students at the Lou Conte Dance Studio, 1147 West Jackson (at Racine). Instructor consent is required for all classes beyond the basic level. For more information, call 312-341-3719.

## The Music Conservatory

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The Music Conservatory was founded in 1867 as the Chicago Musical College, a conservatory whose primary focus was the intensive and rigorous training of young men and women preparing for careers as professional musicians. In 1954, the Chicago Musical College became part of Roosevelt University, enhancing this tradition by adding the multifaceted educational opportunities afforded by a major University. In 1997, the Chicago Musical College joined with the University's theatre program to become the College of the Performing Arts; and in 2000, it was renamed The Music Conservatory of the Chicago College of Performing Arts.

Today, the mission of The Music Conservatory is to offer a musical education of the highest possible quality within the diverse, intellectually challenging setting of a major university, located in a world-class city, with programs of study that are relevant to the performing, composing, and teaching of music in today's complex world. The goals of The Music Conservatory are to do the following:

- n Develop students' individual professional excellence.
- n Provide a well-rounded education in music and related fields.
- n Acquaint all students with past musical traditions and with the music of today.
- n Stress creative performance and skills.
- n Prepare graduates for successful employment in all fields of music.
- n Broaden the base of participation in the musical life of the city and nation.
- n Identify, enroll, and prepare talented young men and women graduating from Chicago's high schools.

Students of The Music Conservatory regularly place high in or win local, regional, and national competitions. Many graduates occupy important positions as members of major orchestras; school music teachers and supervisors; college administrators; and teachers, performers, conductors, and creative artists in this country and abroad. They are living proof of the Conservatory's standards and aims as well as of the professional standing of its faculty.

The Music Conservatory is organized into departments coordinated by the director. Curricula with a major in piano, string (including guitar), wind, or

percussion instruments, voice, orchestral studies, composition, music education, and jazz studies lead to the degree of Bachelor of Music.

An individualized program of studies in music combined with course work in a second discipline leads to the Bachelor of Musical Arts degree. For information on the master's and diploma programs, consult the University's graduate catalog.

The Community Academy of the Chicago College of Performing Arts provides an excellent opportunity for students of any age to take noncredit private lessons and courses. These students need not meet any requirements for admission. Information on the Community Academy is available on request by calling 312-341-3830.

### Admission requirements

Admission to Roosevelt University does not necessarily include admission to The Music Conservatory. To be admitted to The Music Conservatory, students must present a successful audition or other evidence of aptitude in the chosen major in addition to meeting the University's entrance requirements. For those students who wish to pursue a major in music education, an interview with music education department faculty is also required. Students residing more than 250 miles from Chicago may submit a recorded audition in lieu of a personal one. (The faculty reserves the right to validate recorded audition materials.) Prospective students should contact the coordinator for recruitment and student services at The Music Conservatory to obtain specific audition requirements for each major program.

For optimum success in the freshman year, the entering music student should have studied an instrument or voice and music theory for several years and have participated in high school music organizations. Students entering the basic musicianship sequence are expected to have written and aural command of the rudiments of music, including scales, intervals, triads, rhythm, and some knowledge of the keyboard.

Prior to the initial registration, all entering students (freshman and transfer) must take placement examinations to determine their already acquired skills in the areas of music theory and keyboard proficiency. Students will be placed in the basic musicianship sequence at a level appropriate to their proficiency. An outline of materials covered on the placement tests is available upon request from the coordinator for recruitment and student services at The Music Conservatory.

Transfer credit in applied music, musicianship, and music education subjects will be validated only by proficiency examination or by successful completion of a more advanced course. Students exempted from any component of Musicianship by placement examination will replace those hours with free electives.

### Scholarships and awards

A number of special music scholarships are granted each year by competition or recommendation. Awards are made on the basis of merit, ability, financial need, and departmental needs without regard to race, religion, place of residence, national origin, or age. Detailed information is available from the coordinator for recruitment and student services at The Music Conservatory. The application deadline for these music awards is March 1.

## Requirements for Bachelor's Degrees

Students seeking the Bachelor of Music degree may major in performance (piano, guitar, orchestral instrument, or voice), orchestral studies, composition, jazz studies (vocal or instrumental), or music education (choral or instrumental). Students seeking the Bachelor of Musical Arts degree follow a curriculum of core and individualized studies.

Degrees are conferred upon regular students in good standing who have met the following requirements:

- n At least 120 semester hours of credit, following the curriculum for the major field, with a grade point average of at least 2.0 (2.3 in music education) and with core and major course grades that satisfy departmental requirements.
- n Practical piano-playing ability for use in teaching, accompanying, and study, where required.
- n University Writing Requirement.
- n Six semesters of satisfactory performance attendance.
- n One of the following (depending on the major):
  - ä Performance major: junior recital of at least 30 minutes of music (piano majors, 45 minutes), to be performed during the last semester of the junior year; senior recital of at least 60 minutes of music, to be performed during the last semester of the senior year. For jazz performance majors, only the senior recital is required. The senior recital may not be scheduled until 90 semester hours of course work toward the degree have been completed.
  - ä Composition major: public performance of at least 30 minutes of original compositions during the senior year.
  - ä Music education major: recital before graduation, as prescribed by departmental outline, and satisfactory completion of student teaching or internship.
  - ä Bachelor of Musical Arts degree: individually designed senior project.
  - ä At least 60 semester hours must be completed in courses num-

bered 200 or higher, of which at least 16 semester hours (20 semester hours in applied music curricula) must be in courses numbered 300 or higher.

- ä The last two years (no less than 60 semester hours) toward a Bachelor of Music or Bachelor of Musical Arts degree must be earned at The Music Conservatory or Roosevelt University in order to qualify for the degree.
- ä No more than 66 semester hours of applicable credit may be transferred from a junior or community college.

#### Subsequent or double discipline bachelor's degrees

A student may receive more than one bachelor's degree in the same field with different major subjects or concentrations, such as a Bachelor of Music in music education and a Bachelor of Music in piano, subsequently. All specific requirements for each of the degrees must be met fully, and the program must include at least 30 semester hours of enrollment not counted for the first degree. If a student works toward a double major, he/she will receive a single degree showing proficiency in both concentrations provided that all requirements for both concentrations are fully met at the same time.

#### Musical organizations and activities

The Music Conservatory stresses the importance of ensemble performance, both vocal and instrumental, by requiring all majors to participate in ensembles for credit toward the degree. Refer to the descriptions of each major for details. Students who receive permission to enroll as a visitor in any ensemble will receive a grade but no credit; they must complete the same requirements as students enrolled for credit.

Each student participates in ensemble groups during his/her entire period of enrollment. Degree-seeking students are required to participate in all ensembles to which they are assigned by the director.

In order to maintain the highest possible standards in each performing group, enrolled students are required to attend all rehearsals and performances. Because membership in any one of these groups entails a responsibility to the ensemble, to the other students, and to the Conservatory itself, school functions take precedence over outside activities. Excused absences from rehearsals may be occasionally granted for participation in outside competitions or auditions, but must have prior approval from the ensemble director. To assist in the preparation of personal schedules, the director of each ensemble will provide, at the beginning of the semester, a list of all performance dates and all known exceptions to the normal rehearsal schedule.

Students from other departments in the University may audition for performing ensembles and, if accepted, may participate with or without credit.

### Absences and incompletes in applied music

If a student must cancel a private music lesson for unavoidable reasons, the student is expected to notify the instructor by 5:00 pm of the preceding day. Failure to do so removes any obligation on the part of the teacher to make up the missed lesson. Regular lessons falling on holidays will be made up. The student is responsible for making the necessary arrangements.

A department may refuse examination to any student who has more than three unexcused absences in an applied music subject, and a failing grade will be recorded unless written permission is obtained from the department chair to make up missed work. An applied music course will also be recorded as a failure if a student does not appear for the final jury examination.

Incompletes are given only in cases in which the student misses classes during the last weeks of the semester because of illness or other reasons beyond the student's control. All incompletes in applied music courses must be approved in writing by the department chair. The student may not register for a succeeding course in the same subject until the incomplete has been removed.

### Performance classes, recitals, and concerts

Departmental performance classes and regular student recitals afford students the opportunity of gaining experience and poise in public appearances. Attendance at departmental performance classes is required of all undergraduate majors in applied music. Juniors, seniors, and other advanced students present complete or joint recitals and may appear as soloists with the University symphony orchestra and other ensemble groups.

In a professional music school, concerts and recitals are part of the curriculum. They provide the opportunity to hear live performances of many different styles of music by faculty, students, and guest artists. Because the deans and faculty of The Music Conservatory believe that attending these performances is a meaningful and valuable activity, all undergraduate students must fulfill a performance attendance requirement. Students must attend a minimum of eight college-sponsored performances per semester for six semesters. Specific requirements will be announced each semester. Transfer students will be credited with up to four performance attendances in accordance with their status at the time of entrance into The Music Conservatory. Students will not be able to graduate with less than six semesters of satisfactory performance attendance recorded on their transcripts.

More than 100 concerts and recitals are scheduled each year, and all are open to the public. A calendar of events is available upon request. Students in all colleges of the University are urged to take advantage of these rich and interesting offerings.

### The lower and upper divisions

The program of undergraduate study in each department of The Music Conservatory is divided into lower and upper divisions.

Lower division: The first two years of study (freshman and sophomore) offer the student a well-rounded basic instruction in music and are relatively similar for all students. This serves to orient the student in the major field of interest and ability and permits a change of major without great loss of credits.

At the conclusion of the fourth semester (or the equivalent for transfer students), students will be reviewed to confirm that they have completed these foundation courses in a satisfactory manner. Satisfactory progress is defined as grades of A or B in applied music, courses in the major, and ensembles; completion of all undergraduate core courses attempted; and a cumulative grade point average of at least 2.0 (2.3 for music education majors).

Upper division: The last two years of study (junior and senior) concentrate on the student's field of specialization. If approved for entrance into the upper division, students will continue their studies according to the requirements of the department.

## Bachelor of Music Degree

### Performance Departments

Piano, Voice, Orchestral Instruments

#### Major in Piano Performance leading to a Bachelor of Music degree

The program is designed to prepare the student for a career as a performer, both as a soloist and collaborative artist (accompanist and chamber musician), and to prepare the student for graduate study. The curriculum requires a total of 126 semester hours and emphasizes study and performance of standard piano literature, encompassing all major stylistic periods. Grades of A or B are required in all piano major courses in order to pass to the next semester.

All undergraduate piano and music education majors whose principal instrument is piano are required to do a certain amount of accompanying each semester as regulated by the department. For specific details concerning the accompanying requirements, consult the chair of the keyboard department.

Perf 099 Performance Attendance (six semesters required) .....	0
Piano 300 Piano Repertoire Class (eight semesters required) .....	0
Piano 211-214, 311-314 .....	32
Mutc 121A-B, 122 A-B, 221 A-B, 222 A-B Musicianship I-IV .....	12
Mutc 300 Baroque Counterpoint	
or 308 16th-Century Vocal Polyphony .....	3
Mutc 305 Form and Analysis .....	3
Muhl 251-254 History of Music .....	12
Muhl 330 Keyboard Literature .....	3

Muhl 331 Art Song Literature .....	3
Muhl elective in performance practice .....	3
Me 240 Elements of Conducting .....	2
Mpe 361, 362 Piano Pedagogy.....	6
Perf 230-232 Keyboard Studies I-III.....	6
Perf 317 Career Seminar for Pianists.....	1
Choral ensemble.....	2
Ens 245 Principles of Collaborative Piano.....	2
Ens 246 Practicum in Collaborative Piano .....	2
Ens 250 Piano Ensemble .....	2
Ens 280 Chamber Music.....	2
Eng 101, 102 Composition.....	6
Academic (nonmusic) electives .....	24

### Major in Voice leading to a BM degree

The program leading to a major in voice requires a total of 121 semester hours. It is designed to prepare the student to become a performer and/or a studio voice teacher. The voice department also instructs music education students in the basic knowledge of the vocal instrument as partial preparation for teacher certification requirements.

At the completion of the second year the student must receive a minimum grade of B in Voice 214 to be admitted to the upper division and must repeat the course if he/she fails to obtain a B. In the upper division the candidate must receive not less than a grade of B for each course in voice.

Perf 099 Performance Attendance (six semesters required) .....	0
Voi 211-214, 311- 314 .....	32
Voi 100 Freshman Performance Class (two semesters required) .....	0
Voi 200 Sophomore Performance Class (two semesters required)....	0
Voi 300 Junior/Senior Performance Class (four semesters required) 0	
Mutc 121 A-C, 122 A-C, 221 A-C, 222 A-C Musicianship.....	20
Muhl 251-254 History of Music .....	12
Mutc 305 Form and Analysis .....	3
Muhl 331 Art Song Literature .....	3
Muhl 345 History of Opera.....	3
Me 240 Elements of Conducting .....	2
Perf 221-224 Diction for Singers.....	4
Perf 315 Career Seminar for Singers.....	2
Perf 316 Opera/Operetta/Musical Theatre Workshop.....	2
Ens 205 Women's Chorus or 210 Conservatory Choir .....	8
English 101-102.....	6
Three foreign languages; those listed below are recommended.....	12
Ital 101, 102; Fren 101; Germ 101	
Thar 101, 102 Physical Preparation for Voice Majors .....	2
Thar 206, 207 Fundamentals of Acting .....	4

Thar 225, 226 Intermediate Acting .....	4
Thar 384 Interpretation of Literature: Non-Dramatic Texts .....	2

### Major in Violin, Viola, Cello, Double Bass, and Harp leading to a BM degree

The program requires a total of 121-125 semester hours. It is designed to prepare the student for a career as a performer and/or a teacher at the college level.

At the completion of the second year, the student must receive a minimum grade of B in Applied Music 214 to be admitted to the upper division and must repeat the course if he/she fails to obtain this grade. In the upper division the candidate must receive not less than a grade of B for each semester in his/her major instrument.

Perf 099 Performance Attendance (six semesters required) .....	0
Major Instrument 211-214, 311-314.....	32
Mutc 121 A-C, 122 A-C, 221 A-C, 222 A-C Musicianship.....	20
Muhl 251-254 History of Music .....	12
Mutc 305 Form and Analysis .....	3
Muhl 337 Orchestral Literature I .....	3
Muhl 343 Chamber Music Literature.....	3
Me 240 Elements of Conducting .....	2
Perf 215 Advanced Studies in Rhythm and Intonation .....	2
Perf 317 Career Seminar for Instrumentalists .....	2
Ens 225 Orchestra.....	8
Ens 280 Chamber Music/Small Ensemble .....	4-8
Eng 101, 102.....	6
Academic (nonmusic) electives .....	24

### Major in Guitar leading to a BM degree

This program requires 120 semester hours. It is designed to prepare the student for a career as a solo or ensemble performer and as a teacher. At the completion of the second year, a student must receive a minimum grade of B in Guitar 214 to be admitted to the upper division and must repeat the course if he/she fails to obtain a grade of B. In the upper division, the student must receive not less than a grade of B for each course in guitar.

Perf 099 Performance Attendance (six semesters required) .....	0
Guitar 211-214, 311-314 .....	32
Mutc 121 A-C, 122 A-C, 221 A-C, 222 A-C Musicianship.....	20
Muhl 251-254 Music History .....	12
Me 240 Elements of Conducting .....	2
Mutc 300 Baroque Counterpoint.....	3
Mutc 305 Form and Analysis .....	3
Muhl 334 Guitar Literature.....	3
Mpe 365 Guitar Pedagogy .....	3
Music electives (nonmajor subject).....	3
Ens 205 or 210 Vocal Ensemble .....	2



Ens 275 Classic Guitar Ensemble .....	5
Eng 101-102 Composition .....	6
Foreign language .....	6
Academic (nonmusic) electives .....	18

















# Evelyn T. Stone University College

## Evelyn T. Stone

The University College is honored to bear the name of Evelyn T. Stone, an early supporter of Roosevelt University and close friend to its first president, James Sparling. A lifelong champion of education, Evelyn served as valedictorian of her high school class, was conversant in four foreign languages, and was an accomplished violinist and pianist. She was married to Jerome H. Stone and raised three children in the Chicago metropolitan area. During the late 1960s, in her prime at the age of 50, she fell victim to Alzheimer's disease. In an effort to heighten awareness about Alzheimer's disease, to serve patients and families, and to recognize Evelyn's educational contributions, Mr. Stone organized and became founding chairman of the Alzheimer's Association USA, headquartered in Chicago, and founded Alzheimer's Association International, headquartered in London. These organizations have been effective in focusing global attention on the disease and on the research necessary for its cure. Jerome H. Stone is chairman emeritus of Roosevelt's Board of Trustees; his son, James H. Stone, also serves as a University trustee and is currently secretary to the Board. The Evelyn T. Stone University College is proud of its more than 8,000 graduates and remains dedicated to the principles and values upon which it was founded.

## Evelyn T. Stone University College

Since its founding in 1966, the Evelyn T. Stone University College has served as a local and national leader in adult education. Its flagship Bachelor of General Studies (BGS) degree program, one of the first and most successful programs designed specifically for adults, has graduated more than 8,000 individuals who now enjoy successful careers in an unusually wide variety of fields. This unique program opens the door to higher education for thousands of adults who wish to pursue degrees but who may also have other important commitments to family and work. The BGS degree successfully reflects the faculty's commitment to innovation and to personal attention to students. As one of the College's cornerstones, the BGS program provides adult learners with the flexibility they need and the academic rigor they want.

Each year the Evelyn T. Stone University College provides exciting educational opportunities through the development of new graduate and undergraduate programs and delivery systems to better serve students of all ages. In addition to the BGS degree, University College offers the Bachelor of Science in Hospitality and Tourism Management, the Master of Science in Hospitality and Tourism Management, the Master of Arts in Training and Development, and the Master of Interdisciplinary Studies. The Lawyer's Assistant Program provides post-bac-

calaureate students with a challenging course of study that prepares them to meet the demands of a growing paralegal field. Most recently, the faculty developed the Bachelor of Professional Studies (BPS) degree for adult students wishing to focus their studies in professional rather than in liberal arts areas and the Transitions to Graduate Studies which allows students to enter directly into some graduate programs. All of these programs build on University College's tradition of providing personal service and a wide range of educational opportunity to students from every walk of life.

Recognizing the complex lives today's students lead, University College delivers programs in a variety of ways. Classes are offered at the Chicago and Schaumburg campuses during the day, in the evening, and on weekends. Classes are also offered at participating off-campus sites in the Chicago metropolitan area through the Partners in Education program. Students unable to take classes at any of these locations may pursue guided independent study at their own pace through the External Studies Program, also housed in University College, or choose from fully online courses and majors through RU Online. University College hopes to restore state funding for its prison education program, operated until recently by its Department of Human and Community renewal. The life skills program for individuals recently released from prison is still offered. The Insurance School of Chicago and University College have also forged an affiliation to offer risk management and insurance programs to working professionals and other interested students. In every way, the Evelyn T. Stone University College fulfills its mission of delivering a valuable education to every qualified student.

## The Bachelor of General Studies and Bachelor of Professional Studies Degree Programs

Designed specifically for adults 24 years of age or older, this program enables most students to complete a fully accredited bachelor's degree in as little as two-thirds the time more traditional undergraduate degree programs require. The Bachelor of General Studies (BGS) is available in 13 liberal arts areas. In addition, the Bachelor of Professional Studies (BPS) meets the needs of students who want to focus their academic studies in professional areas. Available in 16 areas, the BPS shares the BGS degree's adult orientation, general education requirements, and accelerated format; it differs only in its academic majors and programs of study which focus on the professions rather than on the liberal arts. Two factors make the reduced number of semester hours possible:

- n General education seminars: Interdisciplinary seminars and a senior thesis research project replace general education courses and electives, which often comprise two or more years of study in traditional undergraduate degree programs. The BGS seminars and thesis incorporate the many and varied learning styles of adults.
- n Course-based degree requirements: The BGS/BPS degrees are awarded on the basis of specific courses students complete rather than on a spe-

cific number of semester hours. Students are expected to complete the general education seminars, their selected academic major or program of study, and the senior thesis plus any course proficiencies, prerequisites, or all-University requirements. Students in the BGS/BPS are not required to take courses simply to earn 120 semester hours; many students receive their degrees by earning as few as 90 semester hours.

The BGS/BPS program has several degree options, or plans of study, designed to meet the specific educational needs of adults 24 years of age and older. Whether a student is new to the college experience, has already earned college credits, or has an Associate of Arts (AA) or Associate of Science (AS) degree from a community college, the BGS/BPS has an ideal plan of study. All degree-seeking students must complete a minimum of 30 semester hours at Roosevelt.

- n BGS/BPS—for students who are new to college or who have fewer than 60 semester hours of acceptable transfer credit.
- n BGS/BPS Next Step—for students who have earned 60 or more semester hours of acceptable transfer credit.
- n BGS/BPS Fast Track—for students who have earned an Associate of Arts (AA) or an Associate of Science (AS) Degree.
- n Transitions to Graduate Study—for students whose long-term goal is graduate study.

### BGS/BPS

Adults who are new to college or who have earned fewer than 60 semester hours of acceptable transfer credit complete most or all of the BGS/BPS degree at Roosevelt University. Program components include the Pro-Seminar in Critical Skills, University requirements, the academic major or program of study, senior seminars, and the senior thesis.

- n Pro-Seminar in Critical Skills: This first BGS/BPS course focuses on the development of critical thinking, analytical reading, and writing and research skills. The course instructor also serves as advisor while students plan their academic major or program of study. (6 sem hrs)
- n University requirements: These introductory courses or course prerequisites are designed to help students succeed in upper-level courses. These requirements are usually in English composition, mathematics, or introductory courses in a particular discipline. Placements in English and mathematics are determined by the Roosevelt University Assessment (RUA). A thorough description of the assessment test and the University Writing Requirement is located in the assessment and advising section of this catalog. All BGS/BPS students are expected to complete a mathematics course successfully at the level of Mathematics 100 or higher. (credit varies)
- n Academic major or program of study: Students choose a distinct field

of study, generally equivalent to a combined major and minor. (48-51 sem hrs)

BGS majors:

Communications	English Literature
History	Metropolitan Studies
Individualized Program	Political Science
International Studies	Psychology
Journalism	Sociology
Languages	Women's and Gender Studies
Liberal Arts	

BPS majors and programs of study:

Administrative Studies	Organizational Leadership
Business	Paralegal Studies
Computer Science	Pre-Biotechnology and Chemical Science
Criminal Justice Administration	Professional Administration
Early Childhood Teacher Ed	Risk Mgmt, Insurance, & Financial Svcs
Financial Services	Systems Management
Hospitality & Tourism Mgmt	Telecommunications
Organizational Communication	Web Technology Systems

- n Senior seminars: The senior seminars in the social sciences, the natural sciences, and the humanities promote an in-depth understanding of the liberal arts, enhance research skills, and help students make connections between college courses and the world of work. Students may waive one seminar with nine semester hours of transferable credit with at least a 2.0 average in a single seminar area. (18 sem hrs)
- n Senior thesis: In this final BGS/BPS course, students produce a research project that brings together their educational experiences—the academic major or program of study and general education work—with their life and work experiences. (3 sem hrs)

### BGS/BPS degree completion programs

The BGS/BPS program actively pursues degree completion programs in cooperation with two-year colleges in the Chicago area. For instance, students who earn the eight-course NetPrep certification at William Rainey Harper College may apply the work they have completed to a special BPS major in NetPrep. Students who have earned an Associate of Applied Science in Criminal Justice at Harold Washington College may apply their course work to a BPS major in paralegal studies. Students with an associate of arts, an associate of science, or an associate of applied science in business management or manufacturing management from McHenry County College may apply their course work to a BPS major in organizational leadership. Students should see a University Col-

lege advisor to determine what options might be available.

### BGS/BPS Next Step

Students who have accumulated 60 or more semester hours of transferable credit or who have earned an Associate of Arts (AA) or Associate of Science (AS) degree with at least a 2.0 grade point average may further accelerate completion of the BGS/BPS degree. Next Step students replace the six-semester-hour Pro-Seminar in Critical Skills with the advanced three-semester-hour Methods of Critical Reasoning, apply transfer credits toward course requirements, and may waive as many as two senior seminars with nine semester hours of transferable credit and at least a 2.0 average in each of the two seminar areas. Advisors help students reach their academic goals by determining how best to apply credit toward the degree. All BGS/BPS academic majors and programs of study are available to Next Step students.

- n Methods of Critical Reasoning: This course provides students with advanced skills in locating, reading, interpreting, and evaluating the resources used in academic research, and in designing and implementing research problems of their own.
- n University requirements: English composition, mathematics, introductory prerequisite content courses, and 30 semester hours of enrollment.
- n Students choose a distinct field of study from the BGS and BPS majors and programs of study.
- n Senior seminars: Next Step students may waive as many as two seminars with appropriate transfer credit.
- n Senior thesis.

### BGS/BPS Fast Track

The Fast Track program is designed especially for adults 24 years and older who have completed an Associate of Arts (AA) or Associate of Science (AS) degree. This fully accredited undergraduate degree program prepares students for career advancement or for graduate or professional study by combining special BGS/BPS seminars for adult students with traditional course work in nine major areas. In one program, with just 60 semester hours beyond the AA or AS degree, students can earn a Bachelor of Professional Studies in Organizational Communication and a Master of Arts in Training and Development.

- n Methods of Critical Reasoning: This course provides students with advanced skills in locating, reading, interpreting, and evaluating the resources used in academic research, and in designing and implementing research problems of their own.
- n University requirements: English composition, mathematics, introductory prerequisite content courses, and 30 semester hours of residency.

- n Fast Track majors and programs of study:
  - Business
  - Computer Science
  - Criminal Justice Administration
  - General Studies
  - Organizational Communication
  - Organizational Leadership
  - Professional Administration
  - Psychology
  - Telecommunications
- n One senior seminar chosen in consultation with an advisor.
- n Senior thesis.
- n Fast Track to a Master's: Combined BPS in Organizational Communication or Organizational Leadership and a Master of Arts in Training and Development.

### Transitions

Transitions to Graduate Studies combines the BGS or BPS degree with certain graduate programs at Roosevelt so adult students may reach their long-term goals in the time it would take to complete a traditional bachelor's degree.

BGS/BPS Degree	Master's Degree
Business.....	Master of Business Administration
Communications*.....	MS in Integrated Marketing Communications
Computer Science* .....	MS in Computer Science
Criminal Justice Admin.....	Master of Public Administration
Early Childhood Teacher Education.....	Metropolitan Early Childhood Academy
Hospitality & Tourism Mgmt ...	MS in Hospitality & Tourism Management
Organizational Communication*	MA in Training and Development
Organizational Communication*	MS in Integrated Marketing Communications
Organizational Leadership* ....	MA in Training and Development
Pre-Biotechnology & Chemical Science.....	MS in Biotechnology & Chemical Science
Systems Management .....	MS in Information Systems
Telecommunications* .....	MS in Telecommunications

\*These Transitions programs replace two undergraduate courses with two graduate courses.

## BGS/BPS services, requirements, and graduation

### Academic advising

Faculty and professional advisors associated with the BGS/BPS program provide academic support for busy adults through the academic advising program. From the start of the program, students are clearly informed about course and degree requirements. Satisfactory academic progress is tracked throughout the program. Students are encouraged to meet with individual faculty members to discuss academic programs and to explore opportunities for careers or graduate school.

### Course times and locations

BGS/BPS courses are offered during daytime, evening, and weekend hours at 18 South Michigan Avenue in Chicago, and at 1400 North Roosevelt Boulevard in Schaumburg. Courses are also offered at participating off-campus sites, via independent study in print-based format through the External Studies Program, and online through RU Online.

### Grades and enrollment requirements

All degree-seeking Roosevelt University students, including BGS/BPS students, are required to complete a minimum of 30 semester hours at Roosevelt University. Proficiency credit and courses in English and mathematics at the 099 level do not apply toward this requirement. Grade requirements are described in detail under Policies and Procedures in this catalog.

### University requirements

Placements in appropriate English composition and mathematics courses are determined by the Roosevelt University Assessment (RUA). Students may fulfill these requirements by taking the appropriate courses, through transfer credit, or by placing into higher levels on the RUA. A thorough description of all University requirements is in the Policies and Procedures section of this catalog.

### Preparing for graduation

Upon successful completion of the approved plan of study including the Pro-Seminar in Critical Skills or Methods of Critical Reasoning, the University-wide requirements in English and mathematics, a selected academic major or program of study, the senior seminars, and the senior thesis, the student is eligible to apply for and receive the Bachelor of General Studies or Bachelor of Professional Studies degree. Consultation with an advisor each semester is essential because failure to complete required courses in proper sequence may result in additional course work or in delay of graduation.

Students may review their program of study with their academic advisor one or two semesters prior to graduation. Students who have completed at least 72 semester hours may also apply for a degree check, which will list the remaining

requirements for completion of the program. All candidates for graduation must file a degree application at the Office of the Registrar early in the semester in which they expect to graduate. All deadlines and procedures are described in this catalog under Graduation.

#### BGS/BPS academic majors and programs of study

An academic major or program of study in the BGS/BPS program is similar to a major /minor sequence in traditional undergraduate degree programs. In most instances, majors and programs of study include 16–17 courses logically divided among two or three disciplines. Students must successfully complete a minimum of nine semester hours of course work in the major area, program of study, or area of emphasis at Roosevelt University. Most required courses in the academic majors and programs of study are offered at the 200 and 300 levels. This section lists BGS/BPS majors and programs of study with their course requirements.

#### BPS major in administrative studies

A minimum of nine semester hours at the 300 level must be completed in the major.

Bcom 301 Business Communications .....	3
Two courses in writing and/or speech .....	6
Two courses in computer science and/or business .....	6
Acct 210 Introduction to Accounting I*	
or Acct 201 Business Law I	
or Econ 101 Principles of Economics I.....	3
One elective in business .....	3
Two liberal arts courses .....	6
Five to seven courses in any one academic department or program area depending on the following conditions: .....	15-21
Certified Professional Secretary certification—five courses	
Six years secretarial experience—six courses	
Neither of the above—seven courses	

\*The prerequisite for Acct 210 is Math 116 or qualification into Math 121 on the RUA.

#### BPS program of study in business

For students interested in graduate study, this degree is linked to Roosevelt University's Master of Business Administration through the BGS/BPS Transitions program. Students interested in pursuing a CPA must complete a total of 150 semester hours to sit for the exam.

Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Econ 234 Elementary Statistics	



or Math 217 Introduction to Probability and Statistics	
or Psyc 200 Intro Statistics .....	3
Math: Two courses, 116 or higher .....	6
Phil 333 Business Ethics .....	3
Acct 201 Business Law I .....	3
Acct 210 Introduction to Accounting I .....	3
Acct 211 Introduction to Accounting II .....	3
Cst 100 PC Software Packages	
or Cst 101 Overview of Information Technology .....	3
Fin 311 Business Finance .....	3
Mktg 302 Marketing Management .....	3
Five courses at the upper level, three of which must be taken at Roosevelt at the 300 level in one functional area, chosen with a BPS advisor	15

The functional areas in business are accounting; economics; finance; human resource management; management; marketing; hospitality management; and risk management, insurance, and financial services.

#### BGS major in communications

For students interested in graduate study, this degree is linked to Roosevelt University's MS in Integrated Marketing Communications through the BGS/BPS Transitions program. A maximum of 12 semester hours may be completed in 100-level courses; at least 15 semester hours must be completed at the 300 level including nine semester hours in the specialty department. At least 12 semester hours of communications courses must be taken at Roosevelt, with at least 30 semester hours in total. A maximum of six semester hours of D is allowed in the major.

Six courses in a specialty department: Journalism, including public relations, or speech. A minimum of nine semester hours at the 300 level is required, with no more than one course at the 100 level.....	18
Five courses chosen from other communications areas including the specialty department.....	15
Five courses from one academic department outside of communications, which may also include prerequisite courses .....	15

#### BPS major in computer science

For students interested in graduate study, this degree is linked to Roosevelt University's MS in computer science through the BGS/BPS Transitions program. All computer science courses or transfer credit in the major must be passed with a grade of C or higher. A minimum of 12 semester hours of computer science courses (excluding experiential/proficiency credit) must be taken at Roosevelt. A maximum of nine semester hours of computer science credit can be earned through experiential/proficiency exams.

Choose Applications track (263, 373, 327, 370) or Systems track (250, 280, 340, 317)

Cst 150 Computer Science I .....	4
Cst 250 Computer Science II	
or Cst 263 Visual BASIC Programming I .....	3-4
Cst 261 Microcomputer Structure and Assembler .....	3
Cst 270 Systems Analysis and Design .....	3
Cst 333 Database Design .....	3
Cst 280 Computer Science III/Data Structures	
or Cst 373 Visual BASIC Programming II .....	3
Cst 317 Operating Systems Concepts	
or Cst 370 Software Engineering .....	3
Cst 327 Software Project Management	
or Cst 340 Computer Architecture .....	3
Two computer science courses at the 200 level or above .....	6
Three computer science courses at the 300 level.....	9
Math 121 College Algebra .....	3
Math 245 Discrete Structures .....	3
Phil 210 Logic.....	3
One elective chosen in consultation with an advisor .....	3

#### BPS major in criminal justice administration

The Bachelor of Professional Studies in criminal justice administration provides a broad background in criminal justice and justice-related areas. For students interested in graduate study, this degree is linked to Roosevelt University's Master of Public Administration through the BGS/BPS Transitions program.

Oled 320 Introduction to Organizational Communication .....	3
Cst 100 PC Software Packages* .....	3
Econ 101 Principles of Economics I	
or Econ 102 Principles of Economics II .....	3
Padm 300 Introduction to Public Administration .....	3
Padm 301 Organization and Mgmt Theory for Public Admin .....	3
Padm 305 Public Budgeting .....	3
Padm 341 Introduction to Justice Administration .....	3
Padm 342 Justice Administration II: The Police .....	3
Padm 343 Justice Admin III: Technical Skills for Criminal Justice .....	3
Padm 347 Diversity and Conflict Resolution .....	3
Padm 371 Development and Administration of Public Policy .....	3
Pos 101 Introduction to the American Political System* .....	3
Pos 290 The Research Process .....	3
Psyc 203 Coping with Stress .....	3
Soc 230 Social Deviance* .....	3
Soc 331 Criminology .....	3

\*Credit may be awarded to students who have completed Police Academy training.

#### BPS major in early childhood teacher education (birth through grade 3)

This program prepares students for careers in this field. Education courses should be selected in consultation with a College of Education advisor. In addition to completing the required courses, students must earn a satisfactory score on the ICTS basic skills test. Upon receiving the BPS, students may apply for admission to the early childhood graduate program where they will complete state certification requirements.

Educ 210 Child Development for Educators .....	3
Educ 303 Health for Educators .....	3
Echd 309 Child, Parent, and Community .....	3
Sped 319 Exceptional Children and Youth .....	3
Six courses chosen from any one liberal arts department or program area, with a minimum of nine semester hours at the 300 level taken at Roosevelt University .....	18
General education requirements for teachers..... minimum of 21	
Math 105 Math for Elementary School Teachers (C or better)	
Math 110 or higher (Math 115 recommended)	
American History	
Biological Science (must include a lab experience)	
Literature	
Non-Western Culture Course	
American Government	

#### BGS major in English literature

The 36 semester hours of English courses (including English electives) must be completed with a minimum 2.5 grade point average. At least five 300-level English courses must be taken at Roosevelt University. Eng 222 is strongly recommended.

Eng 205 Introduction to Shakespeare .....	3
Eng 210 British Literature to 1789 .....	3
Eng 211 British Literature 1789 to the Present .....	3
Eng 212 American Literature to 1865 .....	3
Eng 213 American Literature 1865 to the Present .....	3
Eng 220 Introduction to Literary Analysis .....	3
Six electives in English, at least five at the 300 level.....	18
Four other electives.....	12

#### BPS program of study in financial services

This program of study requires 42-45 semester hours depending on the specialty area chosen. Nine semester hours in insurance designations must be completed or in process upon entering the BPS program.

Requirements for the program are one of the following seven specialty areas with a minimum of 15 semester hours at the 300 level and additional insurance designations or 21 semester hours of related electives at the 200 or 300 level chosen in consultation with an advisor.

1. Marketing (21 semester hours)
  - Econ 101 Principles of Economics I ..... 3
  - Econ 102 Principles of Economics II ..... 3
  - Fnsv 300 Risk Management, Insurance, and Financial Services  
or Fnsv 350 Risk Management with CPCU ..... 3
  - Mktg 302 Principles of Marketing ..... 3
  - Mktg 324 Selling and Sales Management ..... 3
  - Mktg 331 Principles of Advertising ..... 3
  - Mktg 344 Marketing Strategy and Planning ..... 3
2. Finance (24 semester hours)
  - Acct 210 Introduction to Accounting I ..... 3
  - Acct 211 Introduction to Accounting II ..... 3
  - Econ 101 Principles of Economics I ..... 3
  - Econ 102 Principles of Economics II ..... 3
  - Fin 301 Money and Banking ..... 3
  - Fin 311 Business Finance ..... 3
  - Fnsv 300 Risk Management, Insurance, and Financial Services  
or Fnsv 350 Risk Management with CPCU ..... 3
  - Math 116 Finite Mathematics  
or Math 121 College Algebra ..... 3
3. Economics (24 semester hours)
  - Econ 101 Principles of Economics I ..... 3
  - Econ 102 Principles of Economics II ..... 3
  - Econ 210 Money and Banking ..... 3
  - Econ 234 Elementary Statistics ..... 3
  - Econ 321 Income and Employment Theory ..... 3
  - Econ 323 Price Theory ..... 3
  - Fnsv 300 Risk Management, Insurance, and Financial Services  
or Fnsv 350 Risk Management with CPCU ..... 3
  - Math 116 Finite Mathematics ..... 3
4. Human resources management (21 semester hours)
  - Fnsv 300 Risk Management, Insurance, and Financial Services  
or Fnsv 350 Risk Management with CPCU ..... 3
  - Hrm 311 Introduction to Human Resource Management ..... 3
  - Hrm 313 Wage and Salary Administration ..... 3
  - Hrm 321 Employment Techniques ..... 3

Hrm 331 Industrial Relations Management .....	3
Hrm 361 Supervisory and Employee Training .....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
5. International studies (21 semester hours)	
Econ 101 Principles of Economics I.....	3
Econ 102 Principles of Economics II.....	3
Fnsv 300 Risk Management, Insurance, and Financial Services or Fnsv 350 Risk Management with CPCU .....	3
Geog 309 Political Geography .....	3
Hist 306 The World Since 1945 .....	3
Hist 325 Diplomatic History of the United States.....	3
Pos 201 Introduction to International Relations .....	3
6. Organizational communications (21 semester hours)	
Bcom 301 Business Communications .....	3
Oled 320 Introduction to Organizational Communication .....	3
Oled 325 Organizational Communication II .....	3
Fnsv 300 Risk Management, Insurance, and Financial Services or Fnsv 350 Risk Management with CPCU .....	3
Jour 201 Communication in the Information Age .....	3
Spch 204 Interpersonal Communication .....	3
Spch 353 Business and Professional Speaking .....	3
7. Interdisciplinary track (21 semester hours)	
Fnsv 300 Risk Management, Insurance, and Financial Services or Fnsv 350 Risk Management with CPCU .....	3
Six courses to be chosen in consultation with an advisor.....	18

Additional insurance designations or related electives at the 200 or 300 level chosen in consultation with an advisor (21 semester hours).

#### BGS major in history

Students intending graduate study in the history of a foreign culture are strongly advised to take two years of a foreign language. Students preparing to teach history in the secondary schools should arrange their programs of study far in advance in consultation with both the College of Education and history faculty. History courses: 33 semester hours with a minimum grade of C in each course; at least 12 semester hours of history, including at least six semester hours at the 300 level, must be taken at Roosevelt University.

Hist 106 The United States to 1865 .....	3
Hist 107 The United States Since 1865 .....	3
Hist 111 The World to 1500.....	3
Hist 112 The World Since 1500 .....	3
Hist 280/281/282 Topics in Historiography and Methodology .....	3

Six courses in history with a maximum of six semester hours at the 100 level and a minimum of six semester hours at the 300 level at Roosevelt University ..... 18

Minor: 15 semester hours in either a concentrated field or an interdisciplinary minor with a minimum grade of C in each course. One course may be taken on a pass/fail basis.

Term papers: Three term papers in history approved by the history department, or a senior thesis approved by a faculty sponsor and the history department faculty.

BPS major in hospitality and tourism management

See the hospitality and tourism management section of this catalog for a list of the courses required.

BGS/BPS major in an individualized program

The individualized program must conform to the following rules:

- n Majors will be made up of a minimum of 48 semester hours with at least 36 semester hours at the 200 level and above, at least 15 semester hours of which are at the 300 level. No more than six semester hours of D grades are allowed in majors.
- n Courses in a major will be taken from at least two but no more than four academic departments.
- n Majors will be designed in a conference between students and appropriate faculty members. The assistant dean will review the curriculum check sheets.

Interior Design at the Harrington Institute

Roosevelt University and the Harrington Institute have an agreement whereby students may use credits earned at the Harrington Institute to fulfill an individualized major through the Bachelor of General Studies program. Further information can be obtained from the assistant dean of University College.

BGS major in international studies

Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Pos 201 Introduction to International Relations .....	3
Hist 325 Diplomatic History of the United States .....	3
Geog 307 World Regional Geography	
or Hist 253 Contemporary World Cultures	
or Hist 318 Introduction to World Cultures .....	3
Hist 306 The World Since 1945	
or Hist 309 20th-Century European Intl Relations .....	3
Pos 306 Political Development and Developing Nations	

- or Pos 389 International Political Economy ..... 3
- One international language ..... 12
- Five electives chosen with an advisor from both groups listed below 15

Group A: International systems

- Econ 333 Comparative Economic Systems
- Econ 374 The Economics of Development and Underdevelopment
- Econ 376 International Trade, Multinational Corporations,  
and the Question of Imperialism
- Econ 377 Int'l Finance and Balance of Payments
- Geog 308 Cultural Geography
- Geog 309 Political Geography
- Geog 342 Economic Geography
- Hist 305 Modern Imperialism
- Hist 308 History and Literature of the Cold War
- Hist 346 History of World War II
- Pos 302 Problems of United States Foreign Policy
- Pos 304 Great Power Politics
- Pos 338 Internship in Politics and Law
- Pos 346 Theories of World Politics
- Pos 357 Global Environmental Politics
- Pos 380 International Law: Human Rights
- Pos 387 International Law: Organization
- Pos 388 War and Peace
- Pos 389 International Political Economy

Group B: Area and regional studies

- Hist 205 Europe in the Age of Total War, 1914 to Present
- Hist 231 Russia Since 1890: The Revolution and the USSR
- Hist 240 Introduction to Africa
- Hist 316 Modern and Contemporary Latin America
- Hist 342 Topics in Soviet History
- Hist 343 The Decline and Fall of the USSR
- Hist 347 The History of the Vietnamese War, 1946-1975
- Hist 354 The Modern Middle East
- Hist 360 Modern History and Politics of China
- Hist 362 History of Modern Japan
- Pos 203 Introduction to Comparative Politics
- Pos 311 Regional Diplomacy
- Pos 313 Western European Politics
- Pos 315 Eastern European Politics
- Pos 317 Mexican Politics and Government
- Pos 320 Central American Politics
- Pos 371 Modern African Politics

Students may take, for example, both Pos 306 and Pos 389, counting one as a core course and the other as an elective. Students who demonstrate

proficiency in a second language may substitute approved electives.

#### BGS major in journalism

Students majoring in journalism may focus their studies on one of five concentrations by taking three of their four electives in writing/reporting, magazine, visual media, electronic media, or newsletters. A maximum of 12 semester hours may be taken in 100-level courses, with at least 15 semester hours at the 300 level. At least 12 semester hours of journalism courses must be taken at Roosevelt, with at least 30 hours of total enrollment at Roosevelt. A maximum of six semester hours of D is allowed in the major. A grade of C or higher is required in Jour 201.

Jour 201 Communication in the Information Age .....	3
Jour 220 Media Writing .....	3
Jour 312 Journalism and Society or Jour 363 Communications Law.....	3
Jour 319 News Reporting .....	3
Jour 321 Internship or Jour 393 Practicum .....	3
Jour 350 Editing .....	3
Jour 389 New Media and Technology .....	3
Four journalism electives at the upper level .....	12
Five courses from one academic department or program area .....	15

#### BGS major in languages

##### Languages (Spanish)

Eight courses, including 18 semester hours at the upper level (201 or above) in languages and their literature. Courses may be all in Spanish, or three courses may be in a second language at the level of 201 or higher.

##### Related area studies

Eight courses that may include literature in a second language; world literature, upper-level history, regional geography, culture studies related to the primary language; or philosophy.

#### BGS major in liberal arts

The student will choose a series of courses forming a coherent interdisciplinary program in consultation with an advisor. The major consists of an eight-course specialization in one of three areas: humanities, social sciences, or natural sciences. Five of the eight courses in the area of specialization must be in a single discipline. A combined total of 24 semester hours is needed in the other two areas. All three areas must be represented in the major. A maximum of six 100-level courses and a minimum of five 300-level courses in the major are required.

Eight courses in an area of specialization .....	24
Four to six courses in second area .....	12-18
Two to four courses in third area .....	6-12



**BGS major in metropolitan studies**

Students interested in a major in metropolitan studies must consult an advisor in the BGS program. A minimum of 15 semester hours in the major and nine semester hours at the 300 level must be completed at Roosevelt University. A maximum of six semester hours of D is allowed. Courses for the specialty area are chosen from approved courses in community service, criminal justice, environmental policy, health services, paralegal studies, or public administration—policy and law. Courses taken as electives may not be duplicated in the specialty area.

Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Libs 245 The City and Citizenship.....	3
Pos 101 American Politics .....	3
Pos 290 The Research Process .....	3
Four courses in a specialty area at the upper level .....	12
Six electives from the following list.....	18
Hist 307 History of Metropolitan Chicago	
Hist 323 Cities and Suburbs in American Thought and History	
Libs 246 Arts and Urban Life	
Libs 382 Rise of Urban Civilization	
Pos 241 Environmental Problems of Metropolitan Areas	
Pos 362 Urban Politics	
Pos 363 Urban Policy	
Pos 366 Local Government Law	
Pos 397 Urban Policy Issues	
Padm 354 Public Health and Urban Disease	
Padm 367 Governing Metropolitan Areas	
Padm 368 Intro to Regional and Urban Economic Development	
Pos/Padm 338 Internship	

**BPS major in organizational communication**

For students interested in graduate study, this degree is linked to Roosevelt University's MA in Training and Development and MS in Integrated Marketing Communications through the BGS/BPS Transitions program.

Jour 201 Communication in the Information Age .....	3
Spch 204 Interpersonal Communication .....	3
Bcom 301 Business Communications .....	3
Oled 320 Introduction to Organizational Communication .....	3
Oled 325 Organizational Communication II .....	3
Jour 240 Communications Research .....	3
Spch 353 Business and Professional Speaking .....	3
Three electives in communications.....	9
Badm 101 Introduction to Business .....	3
Cst 100 PC Software Packages .....	3

Mgmt 333 Business Ethics.....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
One set of three courses chosen from the following .....	9
Acct 201, Acct 210, Acct 211 (prereq: Math 116)	
Econ 101, Econ 102, Mktg 302	
Mktg 302 (prereq: Econ 101 and 102), Mktg 331, Mktg elective	
Cst 270, Cst 290, Cst 246 or 362	
Jour 202, two additional public relations courses	
Jour 208, two additional broadcasting courses	
Three hospitality and tourism management courses	
Oled 330, 335, 365	
Other sets of three related courses (such as psychology, languages, or political science) may be chosen with the approval of an advisor.	

#### BPS major in organizational leadership

For students interested in graduate study, this degree is linked to Roosevelt University's MA in Training and Development through the BGS/BPS Transitions Program. Students who complete the five courses asterisked below earn an undergraduate certificate in organizational leadership. The certificate courses are available both in classroom and fully online formats. All other organizational leadership courses are available initially in online format only.

*Oled 320 Introduction to Organizational Communication.....	3
*Oled 325 Organizational Communication II.....	3
*Oled 330 Foundations of Organizational Leadership .....	3
*Oled 335 Organizational Change .....	3
*Oled 365 Diversity in the Workplace .....	3
Oled 350 Decision Making and Group Dynamics.....	3
Oled 380 Strategy, Vision, and Planning .....	3
Two courses chosen from the courses listed below .....	6
Oled 355 Innovation and Technological Change	
Oled 378 Power and Influence	
Oled 370 Leadership Development and Succession Planning	
Oled 375 Conflict Resolution and Negotiation	
Four courses chosen from one academic department or program area	12
Two electives chosen with an advisor .....	6

Students with industry certifications or other professional training may be able to apply this work to the specialty area with the approval of the program chair.

#### BPS major in paralegal studies

With the approval of the director of the Lawyer's Assistant Program, students may transfer as many as 12 semester hours from ABA-approved paralegal programs. A 2.5 grade point average is required before taking any paralegal courses. These courses must be taken after all course work for the BPS including the senior thesis has been completed. Grades of C or higher are required in all paralegal courses.

Acct 210 Introduction to Accounting I *	
or Acct 201 Business Law I	
or Econ 101 Principles of Economics I.....	3
Cst 100 PC Software Packages	
or Cst 101 Overview of Information Technology .....	3
Eng 222 Writing About Ideas .....	3
Four courses in a specialty area chosen from one department or program	
12	
Two electives (Phil 209 and Phil 210 recommended) .....	6
Para 301 Ethics and Professionalism .....	3
Para 302 Legal Research** .....	3
Para 303 Civil Law	
or Para 324 Introduction to Law.....	3
Para 304 Pre-Trial Litigation .....	3
Para 305 Commercial Law .....	3
Para 306 Trial and Post-Trial Litigation .....	3
Para 325 Legal Writing** .....	3
One course in a substantive area of law such as intellectual property, real estate, or criminal law	
or Para 330 Paralegal Internship .....	3

\*The prerequisite for Acct 210 is Math 116 or qualification into Math 121 on the RUA.

\*\*Qualifying students may substitute Para 328 Accelerated Research and Writing for Para 302 and 325 with the approval of the program director.

#### BGS major in political science

A grade of C or better is required in all political science courses, including electives. Students planning to attend graduate school should enroll in a foreign language. Econ 101 and 102 are recommended as electives.

Pos 101 American Politics .....	3
Pos 201 Introduction to International Relations .....	3
Pos 202 Introduction to Political Theory .....	3
Pos 203 Introduction to Comparative Politics .....	3
Seven political science electives, at least three at the 300 level .....	21
Five supporting courses, maximum of three at the 100 level. ....	15

#### BPS major in pre-biotechnology and chemical science

Students can earn a BPS degree in pre-biotechnology and chemical science and, with additional courses, a biotechnology and chemical science certificate. For students interested in graduate study, this degree is linked to Roosevelt's Master of Science in biotechnology and chemical science through the BGS/BPS Transitions program.

This major entails 57 to 63 semester hours. All required classes must be passed with a grade of C or higher. A minimum of three courses (13-15 semester hours)

at the 300 level must be completed in the major at Roosevelt University.

Chem 101 General Chemistry I .....	4
Chem 202 General Chemistry II .....	5
Chem 203 Quantitative Chemistry Laboratory .....	1
Chem 211 Organic Chemistry I .....	4
Chem 212 Organic Chemistry II .....	4
Biol 150 Science as a Way of Knowing .....	4
Biol 201 Organismic Biology .....	5
Biol 301 Cellular and Molecular Biology .....	5
Math 121, 122, 231	
or Math 122, 231, 232	
or Math 122, 231, 217.....	10-11
Phys 201, 202	
or Phys 231, 232 (required for chemistry concentration).....	10-12
Two courses chosen from one of the following sequences.....	6-10
Biol 355, 360, 367	
Chem 355, 337, 373	
Chem 321, 322, 325	

#### BPS program of study in professional administration

A specialty area must be chosen from one non-business department or program area in consultation with a BPS advisor. Suggested specialty areas are computer science, economics, hospitality and tourism management, organizational leadership, paralegal studies, and telecommunications.

Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Econ 234 Elementary Statistics	
or Math 217 Introduction to Probability and Statistics	
or Psyc 200 Introductory Statistics .....	3
Two math courses, 116 or higher .....	6-8
Phil 333 Business Ethics .....	3
Acct 201 Business Law I .....	3
Acct 210 Introduction to Accounting I .....	3
Acct 211 Introduction to Accounting II.....	3
Cst 100 PC Software Packages	
or Cst 101 Overview of Information Technology	
or Badm 202 Introduction to Business Computing .....	3
Fin 311 Business Finance .....	3
Mktg 302 Marketing Management .....	3
Five courses in a non-business specialty area chosen from one department or program area .....	15

**BGS major in psychology**

The BGS major in psychology requires a minimum of 15 semester hours at the 300 level and a maximum of 12 semester hours at the 100 level. At least three of the nine courses in psychology beyond Psyc 103 must be taken at the 300 level. Students must earn grades of C or higher in these nine courses to earn credit toward the major. Students intending to pursue graduate study in psychology are advised to include Psyc 200, 270, and 285 as well as Psyc 201 if clinical, and to consult with an advisor.

Psyc 103 General Psychology (C or higher).....	3
Nine courses in psychology.....	27
Four courses in a minor field chosen from one department or program area	
12	
Two elective courses .....	6

**BPS program of study in risk management, insurance, & financial services**

This program is designed for students who do not have professional designations in the industry.

Acct 201 Business Law I .....	3
Acct 210 Introduction to Accounting I .....	3
Acct 211 Introduction to Accounting II .....	3
Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Econ 234 Elementary Statistics .....	3
Fin 311 Business Finance .....	3
Math 116 Finite Mathematics .....	3
Math 121 College Algebra .....	3
Cst 100 PC Software Packages	
or Badm 202 Introduction to Business Computing .....	3
Fnsv 300 Risk Management, Insurance, and Financial Services .....	3
Fnsv 310 Real Estate and Financial Services .....	3
Fnsv 320 Banking and Financial Services .....	3
Choose one of the following two-course sequences.....	6
Fnsv 305 Commercial Property and Liability Insurance	
and Fnsv 311 Insurance Company Operations	
or	
Fnsv 357 Life Insurance	
and Fnsv 360 Employee Benefits	
Fnsv 350 Risk Management (required capstone course).....	3

**BGS major in sociology**

This major requires 33 semester hours of core sociology courses with grades of C or higher, at least 15 completed at Roosevelt. A maximum of 12 semester hours at the 100 level is allowed; a minimum of nine semester hours at the 300 level is required.

Soc 101 Introduction to Sociology .....	3
Soc 290 The Research Process .....	3
Soc 303 The Development of Sociology .....	3
Soc 304 Contemporary Social Theories .....	3
Seven additional courses in sociology .....	21
Four courses in a minor chosen from one department or program area	12
One elective course .....	3

#### BPS major in systems management

With an emphasis on both business and technology, the program is designed for those students who plan to manage information technology in corporate environments. For students interested in graduate study, this degree is linked to Roosevelt University's MS in Information Systems through the BGS/BPS Transitions program.

Econ 101 Principles of Economics I .....	3
Econ 102 Principles of Economics II .....	3
Econ 234 Elementary Statistics .....	3
Math 116 Finite Mathematics .....	3
Acct 210 Introduction to Accounting I .....	3
Acct 211 Introduction to Accounting II .....	3
Mgmt 300 Operations Management .....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
Cst 100 PC Software Packages	
or Badm 202 Introduction to Business Computing .....	3
Cst 150 Computer Science I .....	3
Cst 270 Systems Analysis and Design .....	3
Cst 290 Telecommunications Systems.....	3
Inf 330 Management Information Systems .....	3
Cst 332 Telecommunications Management	
or Mgmt 345 Business Forecasting .....	3
Any two of the following four courses .....	6
Bcom 301 Business Communications	
Oled 320 Introduction to Organizational Communication	
Oled 325 Organizational Communication II	
Hrm 311 Introduction to Human Resources Management	

#### BPS major in telecommunications

For students interested in graduate study, this degree is linked to Roosevelt University's MS in telecommunications through the BGS/BPS Transitions program. All computer science courses or transfer credit for the major must be passed with a grade of C or higher. A minimum of 12 semester hours of computer science courses (excluding experiential/proficiency credit) must be taken at Roosevelt. A maximum of nine semester hours of computer science credit can be earned through experiential/proficiency exams.

Choose applications track (150, 270, 362) or systems track (150, 250, 352)

Cst 150 Computer Science I .....	4
Cst 246 Data Communications .....	3
Cst 290 Telecommunications Systems .....	3
Cst 250 Computer Science II	
or Cst 270 Systems Analysis .....	3-4
Cst 331 Telecommunications Systems Analysis .....	3
Cst 332 Telecommunications Management .....	3
Cst 346 Advanced Data Communications .....	3
Cst 352 Network Design and Analysis I	
or Cst 362 Telecommunications: Regulations and Policies .....	3
Cst 354 Local Area Networks .....	3
Acct 210 Introduction to Accounting I .....	3
Math 121 College Algebra .....	3
Math 245 Discrete Structures .....	3
Phys 366 Applied Digital Electronics .....	3
Two computer science electives at the 200 level or above.....	6
Three computer science electives at the 300 level .....	9
One other elective selected with the approval of an advisor .....	3

BPS major in web technology systems

Cst 218 is recommended as an elective, but not required.

Cst 150 Computer Science I .....	3
Cst 250 Computer Science II.....	3
Cst 270 Systems Analysis and Design .....	3
Cst 280 Computer Science III .....	3
Cst 333 Database Design .....	3
Cst 365 Web Programming I .....	3
Cst 376 Web Programming II .....	3
Math 116 Finite Mathematics	
or Math 121 College Algebra .....	3
Math 245 Discrete Structures.....	3
Two computer electives at the 200 level or above .....	6
Three computer electives at the 300 level, (318 recommended)	
at least two chosen from the following.....	9
Cst 367 Web Database Applications	
Cst 368 Internet and Web Security	
Cst 369 Human Computer Interaction	
Two free electives .....	6

BGS major in women's and gender studies

Courses may be taken in no more than five departments with at most four 100-level courses.

Six upper-level courses chosen from listings

under women's and gender studies in the Class Schedule.....	18
Five upper-level courses in a subject specialty .....	15
Five additional courses in either women's and gender studies or subject specialty.....	15

### BGS/BPS Fast Track degree completion program options

Course requirements are given below for the nine Fast Track majors and programs of study for students who have earned an associate of arts or associate of science degree as well as for the Fast Track to a master's program that combines the BPS in Organizational Communication with the Master of Arts in Training and Development.

#### Fast Track in business (BPS)

Bgs 302 Methods of Critical Reasoning.....	3
Mktg 302 Marketing Management .....	3
Fin 311 Business Finance .....	3
Phil 333 Business Ethics .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis .....	3
Five courses in a specialty area, chosen with an advisor .....	15

Specialty areas include accounting, economics, finance, hospitality and tourism management, human resource management, management, marketing, and risk management and financial services. All specialty courses must be upper level, three of which must be taken at Roosevelt University.

Prerequisites: Acct 210, 211, Econ 101, 102, Eng 101, 102 (grades of C or higher are required for all English courses), Math 116, Math 121 or higher, one course each in statistics, business law, and computing.

#### Fast Track in computer science (BPS)

Bgs 302 Methods of Critical Reasoning .....	3
Cst 270 Systems Analysis and Design .....	3
Cst 327 Software Project Management	
or Cst 340 Computer Architecture .....	3
Cst 317 Operating Systems Concepts	
or Cst 370 Software Engineering .....	3
Cst 343 OOP with C++	
or Cst 373 Visual BASIC Programming II.....	3
One computer science course at the 200 level or above.....	3
Three computer science courses at the 300 level.....	9
Math 245 Discrete Structures .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	



Bgs 399 Senior Thesis..... 3

Prereqs: Eng 101, 102, Math 121, Cst 150, Cst 250 or 263, Cst 260, Cst 280 or 246, and any 200-level Cst course. Grades of C or higher are required for all English and computer courses.

#### Fast Track in criminal justice administration (BPS)

A maximum of six semester hours of D is allowed in this major.

Bgs 302 Methods of Critical Reasoning .....	3
Oled 320 Introduction to Organizational Communication.....	3
Padm 300 Introduction to Public Administration .....	3
Padm 301 Org and Mgmt Theory for Public Administrators .....	3
Padm 305 Public Budgeting .....	3
Padm 341 Introduction to Justice Administration .....	3
Padm 342 Justice Administration II: The Police .....	3
Padm 343 Technical Skills for Criminal Justice .....	3
Padm 347 Diversity and Conflict Resolution .....	3
Padm 371 Public Policy Making and Implementation .....	3
Pos 290 Research Methods .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis.....	3

Prerequisites: Eng 101, 102 with grades of C or higher, a speech course, a technology course, criminology, microeconomics or macroeconomics, American politics.

#### Fast Track in general studies (BGS)

A maximum of six semester hours of D is allowed in this major.

Bgs 302 Methods of Critical Reasoning .....	3
Bgs 390 Seminar in the Social Sciences .....	6
Bgs 391 Seminar in the Natural Sciences .....	6
Bgs 392 Seminar in the Humanities .....	6
Bgs 399 Senior Thesis .....	3
Eng 222 Writing About Ideas* .....	3
One upper-level elective .....	3

\*Another writing course may be substituted for Eng 222 with the approval of a BGS advisor.

Prerequisites: Eng 101, 102 with grades of C or higher.

**Fast Track in organizational communication (BPS)**

A maximum of six semester hours of D is allowed in this major.

Bgs 302 Methods of Critical Reasoning .....	3
Oled 320 Introduction to Organizational Communication .....	3
Oled 325 Organizational Communication II .....	3
Bcom 301 Business Communications .....	3
Jour 201 Communication in the Information Age .....	3
Jour 240 Communications Research .....	3
Spch 353 Business and Professional Speaking .....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis.....	3

Prerequisites: Eng 101, 102 with grades of C or higher.

**Fast Track in organizational leadership (BPS)**

A maximum of six semester hours of credit earned with a grade of D is allowed in this major. Students who complete the five courses asterisked below earn an undergraduate certificate in organizational leadership. The certificate courses are available both in classroom and fully online formats. All other organizational leadership courses are available initially in online format only.

Bgs 302 Methods of Critical Reasoning.....	3
*Oled 320 Introduction to Organizational Communication.....	3
*Oled 325 Organizational Communication II.....	3
*Oled 330 Foundations of Organizational Leadership .....	3
*Oled 335 Organizational Change .....	3
*Oled 365 Diversity in the Workplace.....	3
Oled 350 Decision Making and Group Dynamics.....	3
Oled 380 Strategy, Vision, and Planning.....	3
Two courses chosen from the courses listed below .....	6
Oled 355 Innovation and Technological Change	
Oled 378 Power and Influence	
Oled 370 Leadership Development and Succession Planning	
Oled 375 Conflict Resolution and Negotiation	
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis.....	3

Prerequisites: Eng 101, 102 with grades of C or higher.

Fast Track in professional administration (BPS)

A maximum of six semester hours of D is allowed in this program of study.

Bgs 302 Methods of Critical Reasoning .....	3
Math 116 Finite Mathematics .....	3
Math 121 College Algebra (or higher) .....	3
Econ 234 Elementary Statistics .....	3
Mgmt/Phil 333 Business Ethics .....	3
Mktg 302 Marketing Management .....	3
Acct 201 Business Law I .....	3
Fin 311 Business Finance .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis .....	3

Prerequisites: Acct 210, 211, Eng 101, 102, Econ 101, 102, and one computing course. Grades of C or higher are required for all English and computer science courses.

Fast Track in psychology (BGS)

Bgs 302 Methods of Critical Reasoning .....	3
Two 200-level psychology courses .....	6
Five 300-level psychology courses (Psyc 285 Research Methods may substitute for one 300-level course) .....	15
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis .....	3

Grades of C or higher are required in all psychology courses.

Prerequisites: Eng 101, 102 with grades of C or higher, and three psychology courses, including general psychology, with grades of C or higher.

Fast Track in telecommunications (BPS)

Bgs 302 Methods of Critical Reasoning .....	3
Cst 331 Telecommunications Systems Analysis .....	3
Cst 332 Telecommunications Management .....	3
Cst 346 Advanced Data Communications.....	3
Cst 354 Local Area Networks.....	3
Cst 362 Telecommunications: Regulations and Policies .....	3
One computer science course at the 200 level or above.....	3
*Two computer science courses at the 300 level .....	6
Math 245 Discrete Structures .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	



Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis.....	3

\*Students may substitute Phys 366 for one 300-level computer science elective.

Prerequisites: Eng 101, 102, Math 121, Cst 150, Cst 246, Cst 290, and any two 200-level Cst courses. Grades of C or higher are required for all English and computer science courses.

#### Fast Tracks to a Master of Arts in Training and Development

Prerequisites: Eng 101, 102 with grades of C or higher.

#### BPS in organizational communication

Bgs 302 Methods of Critical Reasoning .....	3
Oled 320 Introduction to Organizational Communication .....	3
Oled 325 Organizational Communication II .....	3
Bcom 301 Business Communications .....	3
Jour 201 Communication in the Information Age	
or Spch 353 Business and Professional Speaking .....	3
Jour 240 Communications Research .....	3
Mgmt 358 Behavioral Science and Organization Theory .....	3
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis .....	3

#### BPS in organizational leadership

Bgs 302 Methods of Critical Reasoning.....	3
*Oled 320 Introduction to Organizational Communication.....	3
*Oled 325 Organizational Communication II.....	3
*Oled 330 Foundations of Organizational Leadership .....	3
*Oled 335 Organizational Change .....	3
*Oled 365 Diversity in the Workplace .....	3
Oled 350 Decision Making and Group Dynamics.....	3
Oled 380 Strategy, Vision, and Planning .....	3
Two courses chosen from the courses listed below .....	6
Oled 355 Innovation and Technological Change	
Oled 378 Power and Influence	
Oled 370 Leadership Development and Succession Planning	
Oled 375 Conflict Resolution and Negotiation	
One of the seminars listed below, chosen with approval of an advisor	6
Bgs 390 Seminar in the Social Sciences	
Bgs 391 Seminar in the Natural Sciences	
Bgs 392 Seminar in the Humanities	
Bgs 399 Senior Thesis.....	3

## The External Studies Program

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Students who wish to take courses outside the classroom may enroll in credit-bearing courses through the External Studies Program. In an external course, students work independently at their own pace to complete a series of learning units or modules in association with instructors who are available to discuss academic concerns. Because much work is independent, students taking external courses should be highly motivated and have strong writing and reading skills.

These courses carry the same credit as equivalent on-campus courses, but external students have up to six months to complete their course work. Students may register for external courses at almost any time during the academic year. Each semester's Class Schedule gives information on specific registration deadlines. At the present time, a student may not earn an entire degree externally.

Descriptions of courses available exclusively to students in this program may be found under External Studies Program in the course description section of this catalog.

## The Manfred Steinfeld School of Hospitality and Tourism Management

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Manfred Steinfeld is the generous benefactor of Roosevelt University's School of Hospitality and Tourism Management. The program values Mr. Steinfeld's knowledge, experience, and generosity. With campuses on Chicago's Michigan Avenue and in suburban Schaumburg, the School offers the only undergraduate and graduate programs in Illinois to prepare students for management and leadership careers in the hospitality and tourism industry. The industry is a major employer in the Chicago area and throughout the world; employees with academic degrees, work experience, and technology and research skills have the advantage over unskilled employees. A Roosevelt degree in hospitality and tourism management provides students with this valuable employment advantage.

No better place exists to learn this industry than the Chicago metropolitan area with its rich blend of ethnic cultures and cuisines, arts and entertainment, sports and recreation. The program prepares students in three areas of emphasis: lodging management; food and beverage management; and meeting, convention, and exhibition management. Faculty members are committed to students and their professional growth as they integrate classroom study with the lively metropolitan workplace. Program participants may gain experience through professional partnerships with leading hotels, restaurants, meeting and convention facilities, associations, tourism offices, airline carriers, and others.

### Bachelor of Science in Hospitality and Tourism Management (BSHTM)

Designed for students of any age who want to pursue a career in hospitality, the Bachelor of Science in Hospitality and Tourism Management (BSHTM) is a 120-semester-hour degree program. The program requires successful completion of 54 semester hours of study in hospitality management courses; the University's general education course requirements in humanities, social sciences, and natural sciences; and 30 semester hours of elective courses.

Except for Hosm 290, which must be completed at Roosevelt University, 200-level courses may be completed either at Roosevelt or through acceptable transfer work from an approved community college.

At least 60 semester hours must be completed in courses at the 200 level or above, and a minimum of 15 semester hours of 300-level hospitality management course work must be completed at Roosevelt University. The core courses, Hosm 300, 311, 350, and 399, must be passed with grades of C or higher.

Hosm 200 Financial Accounting for the Hospitality Industry .....	3
Hosm 201 Introduction to the Hospitality and Tourism Industry .....	3
Hosm 210 Front Office Management	
or Hosm 231 Introduction to Meeting, Convention,	
and Exhibition Management .....	3
Hosm 230 Food and Beverage Management .....	3
Hosm 275 Hospitality Law .....	3
Hosm 290 Hospitality Methods and Research .....	3
Hosm 300 Managerial Accounting for the Hospitality Industry.....	3
Hosm 311 Organizational Development for Hospitality.....	3
Hosm 350 Advanced Marketing for the Hospitality Industry.....	3
Hosm 399 Hospitality Senior Project.....	3
Four courses chosen from a select list	
of upper-division Hosm electives .....	12
Four courses in one of the three areas of emphasis .....	12
Lodging Management	
Food and Beverage Management	
Meeting, Convention, and Exhibition Management	
University Writing Requirement	
Mathematics proficiency, by course completion or RUA, at the level of Math	
100	
Three courses in each of the three areas of social sciences, natural	
sciences, and humanities.....	27
Cst 100 PC Software Packages or proficiency credit .....	3
Free electives .....	30

### Bachelor of Professional Studies (BPS) with a Major in Hospitality and Tourism Management

The Bachelor of Professional Studies (BPS) is designed for students 24 years of age or older who are pursuing a college degree and, at the same time, may be managing the responsibilities of work and family. The BPS is an accelerated degree program for adults, comprised of 85-90 semester hours of course work. The BPS requires the successful completion of 54 semester hours of course work in hospitality and tourism management and a series of general education seminars in humanities, social sciences, natural sciences, and research. General electives are not required. For students interested in graduate study, this degree is linked to Roosevelt's Master of Science in Hospitality and Tourism Management through the BGS/BPS Transitions program.

**Pro-Seminar in Critical Skills:** This first BPS course focuses on the development of critical thinking, analytical reading, writing, and research skills.

**University requirements:** These introductory courses or course prerequisites are designed to help students succeed in upper-level courses. These requirements are usually in English composition and mathematics. Placements in English and mathematics are determined by the RUA. A thorough description of the assessment test and the University Writing Requirement is located in the assessment and advising section of this catalog. All BPS students are expected to complete a mathematics course successfully at the level of Mathematics 100 or higher.

**Academic major:** The Bachelor of Professional Studies course requirements for the major in hospitality and tourism management are the same as the major course sequence listed for the Bachelor of Science in Hospitality and Tourism Management (BSHTM). A minimum of 15 semester hours of 300-level course work in hospitality and tourism management must be completed at Roosevelt University. The core courses, Hosm 300, 311, 350, and 399, must be passed with grades of C or higher.

**Senior seminars:** The senior seminars in the social sciences, the natural sciences, and the humanities promote an in-depth understanding of the liberal arts, enhance research skills, and help students make connections between college courses and the world of work. Students who enter with nine semester hours of transferable credit with at least a 2.0 average in a single seminar area may waive one seminar.

**Senior thesis:** In this final course, students produce a research project that synthesizes their educational experiences with their life and work experiences.

### Second bachelor's degree

Individuals who have already earned an undergraduate degree but who want to gain expertise in hospitality and tourism can earn a second bachelor's degree (BPS) by completing 30 semester hours including a prescribed 300-level course

sequence in hospitality and tourism management. Additional course prerequisites may be required.

#### Meeting Coordinator Certificate

This three-course certificate program was designed to serve the needs of current meeting professionals and those wishing to enter the field. Students may take courses online, in the classroom, or a combination of both. To earn the certificate, all three courses must be completed with grades of C or higher, and students must complete the School of Hospitality and Tourism Management's certification examination.

The required courses provide an overview of the meetings and convention industry; incorporate specific meeting planning skills, techniques, and applications as they apply to the Convention Industry Council's Certified Meeting Professional Program; and offer the opportunity to explore in-depth issues and trends in the meetings industry.

Hosm 231 Introduction to Meeting, Convention, and Exhibition Management .....	3
Hosm 315 Applications and Techniques of Meeting and Convention Management.....	3
Hosm 317 Issues and Trends in Meeting and Convention Management.....	3

#### Certificate program in meeting, convention, and exhibition management

Professionals who are interested in employment and career advancement in this dynamic and growing field may earn a certificate by completing a five-course sequence. These courses may be applied toward undergraduate degrees. All courses must be passed with grades of C or higher.

Hosm 231 Introduction to Meeting, Convention, and Exhibition Management .....	3
Hosm 315 Applications and Techniques of Meeting and Convention Management.....	3
Hosm 317 Issues and Trends in Meeting and Convention Management .....	3
Hosm 323 Exhibition Management .....	3
Hosm 324 Special Events .....	3

#### Minor in hospitality and tourism management

Students may complete a minor by taking 18 semester hours of hospitality and tourism management courses, 15 of which must be Roosevelt University courses. Students pursuing this minor should be advised on course selection by a hospitality management advisor. If Acct 201 is included in the minor, the hours must be replaced by hospitality courses to total 18 semester hours. All courses must be passed with grades of C or higher.



Hosm 201 Introduction to the Hospitality and Tourism Industry .....	3
Hosm 275 Hospitality Law or Acct 201 Business Law I .....	3
Hosm 300 Managerial Accounting for the Hospitality Industry .....	3
Three 300-level hospitality and tourism management electives .....	9

#### Credit for prior or experiential learning

Students may apply for assessment of life experience and for the concomitant academic credit within the hospitality and tourism management program. This process entails submitting a written portfolio based on the content of a current course in hospitality and tourism management and also supported by the student's resume. A faculty member with expertise in the selected subject area will review the portfolio and recommend the number of semester hours to be awarded. The hospitality and tourism program director and the dean of the Evelyn T. Stone University College also provide approval for granting credit. Before credit for prior or experiential learning is officially awarded, students must complete 12 semester hours at Roosevelt University. The total number of credits awarded through portfolio assessment is limited.

## Evelyn T. Stone University College

### Delivery Systems

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#### Partners in Education

The Partners in Education program delivers a variety of academic programs and services to businesses and other groups throughout the Chicago metropolitan area. Working with the academic leaders of several Roosevelt University programs including the College of Arts and Sciences, the Walter E. Heller College of Business Administration, the College of Education, and the Evelyn T. Stone University College, Partners in Education brings the finest faculty to teach both undergraduate and graduate courses and programs to employees. The degrees most commonly offered at corporate sites are the Bachelor of General/Professional Studies, the Master of Business Administration, and the Master of Science in Integrated Marketing Communications. In addition, employees earn certificates and participate in professional development in the workplace environment. The Partners in Education program is one more way University College accommodates the needs of adult learners.

#### GMAT, GRE, and LSAT online review courses

In conjunction with Cambridge Educational Services, Partners in Education also offers comprehensive review courses for the Graduate Management Admission Test (GMAT), Graduate Record Examination (GRE), and Law School Admission Test (LSAT) completely online. Students may start the course at any time, work on the review at convenient times, and take up to three months to complete the course. For more information and to register for an online review course, call

847-619-8440 or send an e-mail message to [pceinfo@roosevelt.edu](mailto:pceinfo@roosevelt.edu).

Students who are taking a review course in order to prepare for application to a graduate program at Roosevelt University should contact the Office of Admission to verify that the test is, in fact, required. Call 312-341-3515 in Chicago, or 847-619-8600 in Schaumburg.

### Insurance School of Chicago

Insurance School of Chicago (ISC) is a nonprofit educational institution operated by industry leaders who serve on the board of the Insurance Society of Chicago. Since 1969, ISC has offered courses that enhance skills and understanding of insurance, risk management, and related subjects. ISC's affiliation with Roosevelt University increases educational opportunities for the students of both institutions. To obtain catalogs describing ISC courses and seminars, call the School at 312-427-2520 or visit the ISC Website at [www.insuranceschoolchicago.com](http://www.insuranceschoolchicago.com).

The following categories of courses prepare students for national examinations required to earn the professional designations of the American Institute for Chartered Property Casualty Underwriters (CPCU) and Insurance Institute of America (IIA):

- n Single-course IIA introductions to the property/liability insurance industry and to specific functions in underwriting and claims.

# Course Descriptions

## Accounting

ACCT 101 Introduction to Accounting I:  
Principles of Financial Accounting  
Replaced by Acct 210.

ACCT 102 Introduction to Accounting II:  
Principles of Managerial Accounting  
Replaced by Acct 211.

ACCT 201 Business Law I  
Background, development, and institutional setting of controls; economic significance of law as formal agency of social control; law of business contracts; agency principles with emphasis on business ethics. Legal and equitable principles as they relate to business associations: partnerships, limited partnerships, and corporations. How common law is developed and modified by statute, including Uniform Commercial Code. (3)

ACCT 202 Business Law II  
Commercial transactions law under Uniform Commercial Code; application of rules under common law as modified by Uniform Commercial Code. Personal property, sales, bulk sales, documents of title, negotiable instruments, secured transaction, bank deposits and collections, carriers, and bailments. Legal problems affecting commercial transactions in business community. Prereq: Acct 201. (3)

ACCT 210 Introduction to Accounting I:  
Principles of Financial Accounting  
Formerly Acct 101. Accounting process and use of accounting information in business decisions. Topics include accounting equation, data accumulation, accounting cycle, financial reports, and basic accounting principles. Prereq: Math 116 or qualification into Math 121. (3)

ACCT 211 Introduction to Accounting II:  
Principles of Managerial Accounting  
Formerly Acct 102. Accumulation and use of accounting information by management in planning and controlling business activities. Topics include cost accounting, cost-volume-

profit relationships, and budgets. Prereq: Acct 210 or 101; Math 116 or qualification into Math 121. (3)

ACCT 304 Intermediate Accounting I  
Generally accepted accounting principles; conceptual framework underlying financial accounting, measurement and recognition of assets, and measurement and recognition of liabilities. Prereq: Acct 211 or 102; Math 116 or qualification into Math 121. (3)

ACCT 305 Intermediate Accounting II  
Continuation of Acct 304. Stockholders' equity, income measurement theory, and preparation and analysis of financial statements. Prereq: Acct 304; Math 116 or qualification into Math 121. (3)

ACCT 306 Governmental and Nonprofit Accounting  
Accounting and financial reporting principles of governmental and nonprofit organizations. Fund accounting principles, budgetary accounting, and financial reporting practices. Prereq: Acct 211 or 102. (3)

ACCT 307 Income Tax Law and Procedure  
Income tax fundamentals and taxation of individuals. Gross income, exclusions, deductions, exemptions, credits, and transactions in property. Prereq: Acct 211 or 102. (3)

ACCT 313 Cost and Managerial Accounting  
Accumulation and analysis of accounting information for management decisions. Job lot and process cost accumulation; master budgets and responsibility accounting; flexible budgets, standards, and variance analysis; relevant costs for decision making: joint costs and cost allocation. Prereq: Acct 211 or 102; Math 116 or qualification into Math 121. (3)

ACCT 320 Advanced Accounting  
Accounting theory for partnerships and fiduciaries; advanced corporate concepts. Investments, business combinations, branches, consolidated financial statements, corporate reorganizations, installment sales, and consignments. Prereq: Acct 305. (3)

**ACCT 328 Accounting Information Systems**  
Theory and operation of accounting information systems. Internal control, information flow, computerized transaction processing, systems analysis and design, responsibility centers, and database implementation. Prereq: Acct 304. (3)

**ACCT 330 Principles of Auditing**  
Principles, practices, and procedures employed in examination of financial statements. Professional ethics, auditors' legal responsibility, generally accepted auditing standards, audit procedures, and reports on financial statements. Prereq: Acct 305. (3)

**ACCT 337 International Accounting**  
International standards for accounting, financial statement presentation, and auditing. Accounting for importers, exporters, and multinational corporations. Foreign exchange rates and markets, controlled economy accounting, social responsibility reporting, political bribery, political risk, inflation accounting, and international taxation. Prereq: Acct 304. (3)

**ACCT 357 Advanced Taxes**  
Taxation of corporations, partnerships, and fiduciaries. Tax accounting, tax-free corporate reorganizations and exchanges, and installments sales tax accounting. Practice in preparation of various types of tax returns, tax law reference problems, tax regulations, and commercial tax reference services. Prereq: Acct 307. (3)

**ACCT 395 Independent Study in Accounting**  
Students work under direction of an accounting faculty member on projects selected by student and approved by supervising faculty member, department chair, and college dean. (1-3)

## Actuarial Science

**ACSC 217 Introduction to Probability and Statistics**  
Elementary probability and probability distributions, random variables, expectation and variance; binomial and normal probability distributions. Applications to estimation, confidence intervals, statistical testing of hypotheses, two-sample techniques. Correlation

and least squares. Prereq: Math 116 or 121. (3)

**ACSC 238 Applied Statistical Methods**  
Second course in statistics; comparison of normal means, simple and multiple regression, correlation, contingency tables and Chi-square test, analysis of variance, and nonparametric methods. Prereq: Acsc 217 or 348 or Econ 234 or Psc 200. (3)

**ACSC 269 Theory of Interest**  
Mathematics of interest, accumulated value, and present value; annuities certain; amortization schedules and sinking funds; bonds and related securities; depreciation. Prereq: Math 231. (3)

**ACSC 300 Linear Algebra**  
Vector spaces; linear transformations and matrices; inner products and orthogonality; eigenvalues; eigenvectors; and diagonalization. Prereq: Math 231 or 245. (3)

**ACSC 328 Linear Programming and Optimization**  
Models of optimization with linear constraints and objectives; simplex method and related algorithms; duality and sensitivity; transportation and assignment problems, games, and network flows. Computer use course. Prereq: Acsc 300 and one programming course. (3)

**ACSC 330 Numerical Analysis**  
Solution of equations by iteration; interpolation; numerical differentiation and integration; numerical solutions to linear systems. Computer use course. Prereq: Math 232, Acsc 300, and one programming course. (3)

**ACSC 332 Operations Research**  
Stochastic methods in operations research. Queuing theory; Markov processes; decision analysis; simulation; stochastic dynamic programming. Computer use course. Prereq: Math 231 and Acsc 217 or 347. (3)

**ACSC 347 Probability and Statistics I**  
Probability models; random variables; probability distributions; expectation and moment generating functions of random variables; multivariate distributions. Prereq: Math 233 or concurrent. (3)

**ACSC 348 Probability and Statistics II**  
Continuation of Math/Acsc 347. Distributions of functions of random variables, sampling

distributions; Central Limit Theorem; point estimators and confidence intervals; hypothesis testing; linear models. Prereq: Acsc 347. (3)

**ACSC 349 Regression and Time Series**  
Simple and multiple linear regression models; time series analysis; applications to forecasting. Use of a statistical computer package. No previous experience with computers is required. Prereq: Math 231 and Acsc 238 or 348. (3)

**ACSC 369 Actuarial Mathematics I**  
Survival distributions and life tables, life insurance, life annuities. Prereq: Acsc 269 or concurrent and Acsc 348. (3)

**ACSC 370 Actuarial Mathematics II**  
Benefit premiums; benefit reserves; multiple life functions; multiple decrement models. Prereq: Acsc 369. (3)

**ACSC 377 Survival Models**  
Survival data, survival functions, hazard functions, life tables, comparing two groups of survival data, parametric models of survival data, and sample size for survival studies. Prereq: Acsc 348 or concurrent. (3)

**ACSC 378 Topics in Actuarial Mathematics**  
Selected topics in actuarial models and actuarial modeling. May be repeated for up to six semester hours credit. Prereq: varies; specific prerequisites will be listed in the Class Schedule. (3)

**ACSC 380 Actuarial Science Seminar**  
Applications of mathematical and financial models to actuarial problems and practice. Topics will vary and may include risk management and insurance, corporate finance, price theory, actuarial models, loss models, simulation, and survival models. Prereq: Acsc 347. (3)

## African-American Studies

**AFS 101 Introduction to African Studies**  
Interdisciplinary approach to understanding the role of Africa and its peoples in world history. How Africans shaped their cultures and lives in both ancient and modern times. (3)

**AFS 102 Introduction to African-American**

### Studies

Interdisciplinary profile of worldwide experiences of persons of African descent from antiquity to the present. Emphasis on the American experience in the arts, the workplace, politics, religion, and race relations. (3)

**AFS 202 African-American Social Psychology**  
See Psyc 202. (3)

**AFS 207 Introduction to African-American Literature**  
See Eng 207. (3)

**AFS 228 African-American History, 1619 to 1877**  
See Hist 228. Prereq: sophomore standing. (3)

**AFS 229 African-American History, 1877 to Present**  
See Hist 229. Prereq: sophomore standing. (3)

**AFS 232 African-American History, 1960 to Present**  
See Hist 232. Prereq: sophomore standing. (3)

**AFS 240 Introduction to African History, Culture, and Traditions**  
See Hist 240. Prereq: sophomore standing. (3)

**AFS 241 Africa Under European Domination**  
See Hist 241. Prereq: sophomore standing. (3)

**AFS 317 The African-American Woman**  
Relationship of the African-American woman to institutions of society from slavery to present. Social policy issues related to legislation, employment, health care, child care, education, housing, and correction systems. (3)

**AFS 318 The African-American Male in America**  
Historical, psychological, and sociological examination of issues and conflicts concerning the status, identity, and image of the African-American male in contemporary American society. (3)

**AFS 320 African-American Religious History**  
Themes, traditions, movements, and key figures in African-American religious history from slavery to the present. (3)

**AFS 327 Race and Ethnic Relations**  
See Soc 327. Prereq: Soc 101. (3)

**AFS 349 North American Slavery**  
See Hist 349. Prereq: Hist 106, 228, or 229. (3)

AFS 365 Black Chicago's History and Culture, 1770 to 1960

See Hist 365. Prereq: Hist 107, 228, or 229. (3)

AFS 370 History of Africa After 1500

See Hist 370. Prereq: Hist 112 or 240. (3)

AFS 371 Modern and Contemporary Africa

See Hist 371. Prereq: Hist 112 or 240. (3)

AFS 385 Politics of African Americans

See Pos 385. Prereq: Pos 101. (3)

## Anthropology

ANTH 210 Introduction to Anthropology  
Data and methods of social and biological anthropology; emphasis on field's underlying unity. (3)

ANTH 240 Cross-Cultural Anthropology  
Concepts of cultural anthropology in contemporary non-Western cultures and US; development as it affects traditional ways of life. Economic activities, gender, race, health, kinship and marriage, and trends in anthropological fieldwork. See Soc 241. (3)

ANTH 311 Culture and Politics in Latin America  
Intersections of culture and politics with focus on indigenous peoples in Latin America. How culture and ethnic identity are shaped by political factors; how "indians" were incorporated and marginalized by colonial and national processes; impact of global forces such as the cocaine trade on national politics and indigenous culture; mobilization of indigenous identity in social movements. See Soc 311. Prereq: Anth 240 or Soc 241 or six sem hrs in social sciences. (3)

ANTH 314 Globalization, Society, and Culture  
Social, economic, political, and cultural systems that span nation-state borders. Current status of nationalism, nation-states, and the global economy; how cultural identities and communities are formed within the context of global systems. Topics may include effects of world markets on economies and societies, transnational migration and social movements, indigenous groups' self-representation through global technologies such as video and the Internet, hybrid identities and "bifocal" cultural frameworks. See Soc/Pos 314. Prereq:

Anth 240 or Soc 241 or six sem hrs in social sciences. (3)

ANTH 323 Gender in Cross-Cultural Perspective  
Cultural variations in gender ideologies and roles. How diverse cultures define differences between the sexes and their relative positions in social structures. See Soc 323. Prereq: Anth 240 or Soc 241 or six sem hrs in social sciences. (3)

## Art

ART 101 Introduction to the Visual Arts  
Form and content in painting, sculpture, architecture, and film. (3)

ART 201 Ancient Through Medieval Art  
Chief works of architecture, sculpture, and painting in their historical contexts; principal stylistic developments and iconographical themes. (3)

ART 202 Renaissance Through Modern Art  
Continuation of Art 201. (3)

ART 210 Drawing I  
Double period. (3)

ART 211 Drawing II  
Double period. Prereq: Art 210. (3)

ART 212 Figure Drawing  
Double period. (3)

ART 213 Introduction to Computer Graphics  
Typefaces, photographs, and other illustrations; decoration and ornamentation; layout; use of graphics to reflect publication character. Work with Illustrator and PhotoShop. Computer use course. See Jour 205. (3)

ART 215 Painting I  
Double period. (3)

ART 216 Painting II  
Double period. Prereq: Art 215. (3)

ART 225 Photography  
Introduction to camera and techniques of shooting and processing film. (3)

ART 226 Ceramics  
Introduction to working with clay, hand-building vessels and sculptures, glazing and firing. (3)

**ART 246 Arts and Urban Life**

Visual art and architecture, literature, film, and dance in the urban environment. How art emerges from and shapes its environment; how the arts intersect with class, race, and gender issues in modern urban life; the role of the artist in modern urban society. See Libs 246. Prereq: UWR. (3)

**ART 307 Film History**

History of the medium with attention to technological, aesthetic, and cultural developments and influence. Secondary focus varies by semester but may include spectacle, independent film, sound, or auteur theory. See Eng 307. (3)

**ART 310-311 Advanced Drawing I and II**

Prereq: Art 211. (3)

**ART 312 Advanced Figure Drawing**

Prereq: Art 212. (3)

**ART 313 Advanced Graphic Design**

Prereq: Art 213. (3)

**ART 314 Computer Graphics**

The computer as a tool for generating graphics. (3)

**ART 315 Advanced Painting I**

Prereq: Art 216. (3)

**ART 316 Advanced Painting II**

Prereq: Art 216. (3)

**ART 325 Advanced Photography**

Prereq: Art 225. (3)

**ART 326 Advanced Ceramics**

Prereq: Art 226. (3)

**ART 328 Digital Photography**

The ethical, philosophical and practical considerations regarding digital imaging. Use of flat-bed scanners, 35mm slide and negative scanners, and digital cameras for inputting images into the computer. Primary imaging program will be Adobe Photoshop. (3)

**ART 329 Textile Arts**

(3)

**ART 330 Advanced Textile and Material Arts**

Prereq: Art 329. (3)

**ART 331-35 Advanced Courses in Art History**

Single art movement or significant process in development of art. Topics vary and may include Impressionism, Cubism, Northern Renaissance painting, modern architecture, the Chicago School, African art, contemporary art, American art, Dada, and Surrealism. Prereq: consent of instructor. (3)

**ART 336 Special Topics**

Content varies. (3)

**ART 355 Photography: From Chemical to Digital**

See Jour 325. (3)

**ART 356 Advanced Photography**

Digital and chemical photographic practice and theory. How to shoot using artificial light; how to develop and print black-and-white photographs. Lab fee. See Jour 361. Prereq: Art 355 or consent. (3)

**ART 374 Women and Art**

Images of women in art and the woman artist; the role of the artist defined in various historical periods; the social construction of gender and relevant theoretical approaches to the study of art history. See Libs 374. Prereq: senior standing and UWR. (3)

**ART 390 Internship**

In-service training with an arts organization, design or graphics company, or gallery. Student gains knowledge and skills in area of special interest. Offered in conjunction with faculty advisor by consent only. (1-6)

**ART 395 Independent Study in Fine Arts or Art History**

Advanced work in any area of fine arts or art history; opportunity to do independent creative work. Students and professor define work to be done during semester. Prereq: consent of instructor. (1-3)

## Bachelor of General Studies

**BGS 201 Pro-Seminar in Critical Skills**

The Pro-Seminar orients students to college-level course work by developing skills in analytical thinking, expository writing, and research. Especially important for those who

have been away from school for a period of time, the Pro-Seminar has an informal, supportive atmosphere, oriented to adult learning. Through interdisciplinary readings, class discussions, writing, oral presentations, and research projects, students develop the ability to analyze, interpret, and synthesize related subject areas. The instructor also helps establish the student's connection to Roosevelt by serving as academic advisor. Subject matter varies by section. Also available through External Studies Program in print-based format and over the Internet through RU Online. (6)

**BGS 302 Methods of Critical Reasoning**  
The first course in the Next Step and Fast Track plans of study; not required of students who take Bgs 201. Advanced skills in critical analysis, argumentation, and research. Analysis of arguments in popular and academic publications; evaluation of print- and web-based sources; comparison of quantitative and qualitative research; practical statistical literacy; and the construction of reasoned arguments using a range of sources. Also available through External Studies Program in print-based format and over the Internet through RU Online. Prereq: prior course work in basic library research methods and writing research papers; 60 semester hours of transferable credit or an Associate of Arts (AA) or Associate of Science (AS) degree. (3)

#### Senior Seminars

Unlike the more discipline-based areas of concentration, the senior seminars are designed to fulfill general education requirements in the three major areas of the liberal arts: social sciences, natural sciences, and humanities. Each seminar carries six semester hours of credit and is available in a traditional classroom setting on both campuses, through the External Studies Program in print-based format, and over the Internet through RU Online.

**BGS 390 Seminar in the Social Sciences**  
Introduction to the ideas and methods of the social sciences, stressing the connections between personal lives and social forces. Topics may include globalization, women's work, comparative societies, immigration, urban

life, and the presidency, among others. The seminar is participatory and activity-oriented, including discussions of current issues, reviews of significant books related to the theme of the seminar, and a research project with oral and written presentations. Also available through External Studies Program in print-based format and over the Internet through RU Online. Prereq: Bgs 201 or 302 and UWR. (6)

**BGS 391 Seminar in the Natural Sciences**  
An interdisciplinary approach to studying the natural sciences (biology, geology, ecology) by focusing on scientific methodology and on selected areas of inquiry, such as human genetics, evolutionary theory, the fossil record, and environmental studies. Basic methods and philosophy of science; scientific concepts and issues; critical analysis of information about science published in the popular media; realization that humans can have a profound impact on our rapidly changing landscape. Lectures, class discussions, student presentations, one or two field trips, exams, short papers, and/or a research paper. Also available through External Studies Program in print-based format and over the Internet through RU Online. Prereq: Bgs 201 or 302 and UWR. (6)

**BGS 392 Seminar in the Humanities**  
The humanities may include art, music, literature, film, folklore, philosophy, and popular culture. Focus on the development and exercise of critical and analytical skills related to the humanities. Individual sections may focus on particular topics, ranging from gender and ethnic issues in the arts to themes such as survival, the outsider, or the responsibility of the artist. Extensive class participation and discussion; midterm and final examinations; research project or critical essay on an approved topic; and a presentation before the class. Also available through External Studies Program in print-based format and over the Internet through RU Online. Prereq: Bgs 201 or 302 and UWR. (6)

**BGS 399 Senior Thesis**  
The final course in the BGS/BPS program taken after completion of the senior seminars. A guided independent research project focused on a single topic, allowing the student to conduct a thorough, in-depth study in an area of interest. Thesis work provides an opportunity to apply the knowledge and skills



gained throughout the BGS/BPS program by developing the qualities of independent and critical thinking. The final 20-25 page research project is a thorough, clearly articulated representation of the student's educational accomplishments. Tutorial mode of instruction. Also available through External Studies Program in print-based format and over the Internet through RU Online. Prereq: completion of two senior seminars; student must be within 21 semester hours of graduation. (3)

## Biology

### BIOL 111 Human Biology

Basic anatomy and physiology. Organ systems, genetics, reproduction, development, circulation, respiration, nutrition, digestion, and excretion. Social aspects of human biology. Appropriate for nonmajors, allied health students, and students preparing for further training in nursing or physical therapy. Lecture, discussion, and laboratory. May be taken before or after Biol 112. For major credit in nuclear medicine technology. Not for major credit in biology or medical technology. (4)

### BIOL 112 Environmental Biology

Ecology, evolution and the diversity of life with emphasis on practical environmental consequences of human activities. Laboratory focuses on open-ended student experimental projects. Field trips to sites of interest. Lecture, discussion, and laboratory. May be taken before or after Biol 111. For major credit in environmental science. Not for major credit in biology. (4)

### BIOL 115 Advanced Human Biology

Advanced anatomy and physiology. Sequel to Biol 111. Emphasis on three-dimensional structure and organs subject to disease. Appropriate for nonmajors who have completed Biol 111, biology and allied health majors, and students preparing for further training in nursing or physical therapy. Lecture, discussion, and laboratory. Prereq: Biol 111 or 201 or consent of instructor. (4)

### BIOL 150 Science as a Way of Knowing

How scientists approach the natural world and solve problems. Experimentation, including design and analysis of results. Basic statistical methods and graphical analysis. Reading and

writing scientific papers. Critical thinking and science as a vocation. Appropriate for science majors and nonmajors; recommended for education majors. Lecture, discussion, and laboratory. Prereq: Math 100. (4)

### BIOL 201 Organismic Biology

Biological principles relating to organism level of complexity. Tissues, organs, and organ systems in structure and function; development; physiology; and introductory genetics. Lecture, laboratory, and discussion. Prereq: Biol 150, Math 121, and Chem 101. (5)

### BIOL 202 Ecology, Evolution, and Genetics

Biological principles relating to population levels of organization. Topics include introduction to ecology and the biosphere, mechanisms of evolution and introductory genetics. Lecture, laboratory, and discussion. Prereq: Biol 150 and Math 121. (5)

### BIOL 242 Animal Behavior

Evolutionary, developmental and environmental bases of animal behavior. Emphasis on birds and mammals. Communication, decision-making, motivation, learning, memory, social behavior, and mating systems. See Psych 242. Prereq: Psych 103 and one biology course or consent of instructor. (3)

### BIOL 301 Cellular and Molecular Biology

Biological principles relating to cellular and subcellular levels of organization. Topics include introductory biochemistry, cell biology and ultrastructure, and cell physiology. Laboratory includes cloning methods. Lecture, laboratory, and discussion. Prereq: Biol 150, Chem 202 and 211. (5)

### BIOL 302 Diversity and Evolution

Darwin, The Origin of Species, evolution through natural selection, population genetics, speciation, history of the earth, progression of life through the ages, human origins. Open to well-prepared nonmajors. Prereq: Biol 201 or consent of instructor. (3)

### BIOL 304 Histology and Ultrastructure

The organization of biological tissues as exemplified by their microscopic anatomy. Emphasis on the functional activities of biological units. Laboratory focuses on the study of prepared slides of normal vertebrate tissue. Two lecture and two laboratory sessions per week. Biol 115

recommended. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 310 Physiological Psychology**  
See Psyc 310. Prereq: for biology majors Biol 111 or 201. (3)

**BIOL 315 Ecology**  
Interactions among organisms and between organisms and the environment. Population growth, competition, predator-prey relationships, mutualism, species diversity, dispersal, succession, nutrient cycles, and energy flow through ecosystems. Lecture, discussion, and field projects. Prereq: Math 217 and Biol 201 or consent of instructor. (5)

**BIOL 317 Behavioral Ecology**  
Human and nonhuman behavior in an ecological context. Contribution of individual behaviors to survival and reproductive success; costs and benefits of living in groups; transfer of information under different conditions; competition vs cooperation; effects of environmental change on mating systems, foraging, and helping of kin; hunter-gatherer life styles compared with those of modern industrial societies; ecological effects of human life styles. Prereq: Biol 111, 112, or nine sem hrs of psychology. (3)

**BIOL 324 Marine Biology**  
Physical forces, biodiversity, organismal function, and ecological interactions that form marine environments. The principles of cell biology, organismic physiology, biomechanics, and ecology applied to marine biological problems. Prereq: Biol 201. (3)

**BIOL 330 Wetlands Delineation**  
See Envs 330. Prereq: Biol 112 or 201 and Chem 100 or 101. (3)

**BIOL 332 Ecology of the Tallgrass Prairie**  
Prairies have been described as the most endangered ecosystems in North America. This is a field-oriented introduction to prairies, including exploration of unique ecological processes found at the population, community, and ecosystem levels. Special attention will be given to prairie plants, insects, soils, endangered species, and prairie restoration. Prereq: Biol 112 or 201. (3)

**BIOL 333 National Parks Field Experience**  
This field course will integrate the role of public policy, government politics, interest groups, and the media in the management of the national park's natural resources, along with the natural science concepts underlying environmental management decisions. Topics include management of fires, sustainable habitat development, wolf reintroductions, bison and elk migrations, land use buffer zones, economic development, and tourism. Prereq: one course each in natural science and social science and consent of instructor. (2)

**BIOL 335 Great Lakes**  
Ecology, chemistry, and environmental policy issues surrounding the Great Lakes, with emphasis on Lake Michigan. Lecture, field trips and guest lecturers. Recommended for science and education majors. Prereq: Chem 100 or 101; Biol 112, 201, or equivalent. (3)

**BIOL 338 Organ System Physiology**  
Selected topics, such as water balance, neurophysiology, endocrinology, in general at the organ/tissue level of complexity. Prereq: Biol 201 and 301 or equivalent. (3)

**BIOL 351 General Genetics**  
Classical and molecular genetics. Transmission genetics, chromosome genetics, interaction of genes with sex and environment, mapping, DNA structure and replication, transcription, translation, chromosome structure and genome organization, extrachromosomal inheritance, mutagenesis, gene expression. Genetics of plants, insects, vertebrates, fungi, bacteria, and viruses. Prereq: Biol 201 and 301 or consent of instructor. (5)

**BIOL 353 Molecular Biology**  
The structure of nucleic acids and chromosomes, DNA replication and repair, general and site-specific recombination, control of gene expression at the transcriptional and translational levels, oncogenes and retroviruses. Laboratory techniques include PCR, DNA fingerprinting, and DNA sequencing. Included in the biotechnology certificate program. Lecture, laboratory, and discussion. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 354 Experimental Methods in Biochemistry and Biotechnology**  
Biochemical techniques including enzyme and

lipid assays, isolation, and analysis of macromolecules. Prereq: Biol 301 or 355. (2)

**BIOL 355 Biochemistry**  
Included in the biotechnology certificate program. See Chem 355. (5)

**BIOL 356 Developmental Biology**  
Basic principles and processes of embryology and development; selected invertebrates, vertebrates, and plants. Prereq: Biol 301 or consent of instructor. (3)

**BIOL 358 Cell Biology**  
Molecular interactions that provide the foundation for the structure and functions of the cell. Topics include protein structure and function, membrane transport, post-translational modifications of proteins and protein secretion, cell cycle regulation, cell signaling and mechanisms of development and differentiation. Laboratory techniques include SDS-PAGE, cell fractionation, bacterial protein expression and purification, and immunohistochemistry. Included in the biotechnology certificate program. Lecture, laboratory and discussion. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 360 Microbiology**  
Structure and function of prokaryotic cells, including metabolic and genetic diversity; emphasis on differences and similarities with eukaryotes. Roles microbes play in human body, soil, and water ecosystems. Special emphasis on human diseases and microbial processes for the maintenance of biosphere. Applications to medicine, biotechnology, food processing, agriculture, pollution control. Laboratory includes proficient and safe handling of microorganisms, identification of unknown bacteria, and biochemical and microscopic methods. Included in the biotechnology certificate program. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 361 Information Technology for the Sciences**  
Methods for finding biological and biotechnological information. Online and hard copy methods with an emphasis on the use of various computer databases and the Internet. Prereq: Biol 201 and Chem 212. (3)

**BIOL 367 Immunology**  
Humoral and cellular immune responses,

generation of immune diversity, autoimmune and immunodeficiency diseases. Immunologic assays relevant to clinical settings. Laboratory techniques include antibody-antigen interactions, ELISA, and the purification of lymphocyte populations. Included in the biotechnology certificate program. Lecture, laboratory, and discussion. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 371 The Biology of Aging**  
The biological relationships between the normal activities of life and aging. Changes in structure and function at various levels of biological organization (subcellular population) with age. Lectures, expert guest speakers, student seminars, term paper. Prereq: Biol 201 or Biol 111 and consent of instructor. (3)

**BIOL 390 Problems in Biology**  
Discussion topics based on student interest and staff availability. Prereq: 12 sem hrs in biology and consent of instructor and school. (credit varies)

**BIOL 391 Medical Internship**  
Off-campus experience at Louis A. Weiss Memorial Hospital. Rotation through four or five medical specialties. At least 12 contact hours. Prereq: Biol 301 or equivalent and approval of the school. (3)

**BIOL 395 Independent Study in the Biological Sciences**  
Individual library or laboratory problems in biology. Prereq: consent of instructor and school. (1-4)

## Business Administration

**BADM 101 Introduction to Business**  
Comprehensive overview of the business world and business basics. Organization, management, marketing, and financial operations. Today's changing business environment; focus on careers in business and business career options. Open to all undergraduate students. Prereq: none. (3)

**BADM 304 Business and Society**  
Background, development, and institutional settings of social controls. Law as formal agency of control. Constitutional and legisla-

tive law as applied to administrative agencies and regulation of business activities. Antitrust law and legal aspects of labor/management relations. Business organizations and their responsibilities to employees, government, and laws. Also available through External Studies Program in print-based format; available over the Internet through RU Online. Prereq: Acct 201. (3)

**BADM 308 Ethical Leadership and Corporate Social Responsibility**

Issues that affect business firms and managers in modern society examined through the frameworks of business ethics and corporate social responsibility. Topics include environmental pollution, employee rights and responsibilities, discrimination/affirmative action, and the activities of multinational corporations. (3)

**BADM 360 Survey of International Business Problems and opportunities for American business resulting from internationalization of the US economy. Economic, political, and cultural environments facing business; diplomacy; global sourcing and production; functional areas of accounting and taxation, finance, management, and marketing. Prereq: Econ 102. (3)**

**BADM 380 Business Policy and Strategy**  
Case approach to top management strategy and policy making; integrating of functional divisions of organizations through analysis of and solutions to complex business situations. Prereq: Mgmt 300, 358; Mktg 302; Fin 311. (3)

**BADM 398 Internship Experience**  
Supervised learning experience in a local firm or nonprofit agency. Student must be required to complete learning objectives, journal, and/or term paper. Placement must be approved in advance. (1-3)

## Business Communications

**BCOM 201 Communications for Professional Development**

A biweekly series of workshops presented by career professionals and guest speakers/employers to enhance the professional

development skills necessary to be successful in today's competitive workplace. Prereq: UWR. (1)

**BCOM 301 Business Communications**  
Effective written and oral business communication. Focus on the communication process, Internet-based and traditional research techniques, presentation strategies, nonverbal and intercultural communications, impact of new technologies, ethical considerations in communications. Prereq: UWR. (3)

## Chemistry

**CHEM 100 Chemistry in Context**

Application of the basic principles of chemistry to the analysis of social and environmental issues. Topics include energy sources, air and water pollution, global warming, the ozone layer, nutrition, and synthetic materials such as plastics and drugs. Appropriate for nonscientists and for science majors with little or no chemistry background; meets the general education requirement for laboratory physical science. Not for major credit in the sciences. Lecture and laboratory. (4)

**CHEM 101 General Chemistry I**

Stoichiometry, atomic structure, chemical periodicity, chemical bonding, properties of matter, and thermochemistry. Laboratory required. Prereq: Math 121. (4)

**CHEM 106 Forensic Science**

The application of scientific techniques for crime scene assessment, identification of criminal perpetrators, and making inferences regarding aspects of the activities or occurrences being investigated. (3)

**CHEM 202 General Chemistry II**

Solutions, chemical kinetics, chemical equilibrium, acid-base theory, solubility products, complexation, and electrochemistry. Laboratory required. Prereq: Chem 101. (4)

**CHEM 211 Organic Chemistry I**

Synthesis and examination of principal types of carbon compounds; examination of their transformation through reactions. Laboratory required. Prereq: Chem 202. (4)

**CHEM 212 Organic Chemistry II**

Continuation of Chem 211 including spec-

trospectroscopy of organic compounds and topics in biochemistry. Required laboratory includes qualitative organic analysis. Prereq: Chem 202 and 211. (4)

#### CHEM 237 Quantitative Environmental Analysis

Classical wet chemical methods for quantitative chemical analysis. Emphasis on environmental chemistry applications. Topics include a review of stoichiometry; statistical treatment of data; and mathematical treatment of acid-base, solubility, complexometric and electrochemical equilibria. Required laboratory provides experience in classical volumetric, gravimetric, potentiometric, and photometric methods of analysis; representative field sampling techniques; and quality assurance/quality control techniques. Prereq: Chem 202. (3)

#### CHEM 313 Advanced Organic Chemistry Laboratory

Spectrometric methods for determining the structures of organic compounds. Mass spectrometry, proton and carbon FT-NMR, infrared, ultraviolet, and visible spectroscopy. Laboratory includes synthesis of organic compounds and applied spectroscopic methods. Prereq: Chem 202 and 212. (4)

CHEM 318 Synthetic Organic Chemistry  
Advanced methods in the synthesis of organic compounds, especially those of biological or pharmaceutical interest. Topics include stereo- and regiospecific reagents for organic transformations, including enzyme mediated synthesis, polypeptide and polynucleotide synthesis, and natural product synthesis. Prereq: Chem 202 and 212. (3)

#### CHEM 319 Organometallic Chemistry

The structure, bonding, and reactions of compounds formed between the metallic elements (primarily d block) and carbon (organic groups). Classes of compounds to be discussed include metal alkyls, aryls, hydrides, carbonyl, alkenes, and arenes. The application of organometallic compound in organic synthesis and homogeneous catalysis. Prereq: Chem 202 and 212. (3)

#### CHEM 321 Physical Chemistry I

Theoretical foundations of chemistry: thermodynamics of pure substances and mixtures,

electrochemistry, kinetic theory of gases, and chemical kinetics. Prereq: Chem 202, 212, Math 232 and Phys 232. (3)

#### CHEM 322 Physical Chemistry II

Theoretical foundations of chemistry: spectroscopy and quantum theory of atoms and molecules. Prereq: Chem 202, 212, Math 232, and Phys 232. (3)

#### CHEM 325 Physical Chemistry Laboratory

Experimental work in physical chemistry, including laboratories on the properties of gases, liquids, and solutions; and involving thermodynamics, kinetics, and spectroscopy. Laboratory required. Prereq: Chem 202, 212 and Chem 321, 322, or concurrent. (4)

#### CHEM 337 Instrumental Analysis

Basic theories and experimental techniques in instrumental methods of analysis including spectrophotometry, chromatography, and electrochemistry. Prereq: Chem 202, 212, 237. (4)

#### CHEM 341 Inorganic Chemistry

Survey of theoretical and synthetic inorganic chemistry. Atomic theory, bonding theory, crystal structure, chemical periodicity, coordination compounds, acid-base systems, and molecular symmetry. Prereq: Chem 202 and 212. (3)

#### CHEM 347 Advanced Inorganic Chemistry Laboratory

Synthesis and characterization of compounds of the p block (main group) and d block (transition metal) elements, including inorganic compounds of biological interest and air-sensitive complexes. Spectroscopic characterization methods include vibrational (IR and Raman), electronic absorption (UV-Vis-NIR) and emission, and multinuclear NMR. Lecture covers the theoretical and practical background for physical methods in experimental inorganic chemistry. Prereq: Chem 202, 212, and 237; Chem 341 recommended. (4)

#### CHEM 355 Biochemistry

Electron transport chain, protein structure, enzyme kinetics, biosynthesis and intermediary metabolism of amino acids, and carbohydrates and lipids. Included in the biotechnology certificate program. Prereq: Chem 202 and 212; Biol 301 recommended. (3)

**CHEM 373 Environmental Chemistry**  
 Connection of basic chemical knowledge to environmental issues in the areas of energy, atmosphere, hydrosphere and biosphere. Chemical substances and their impact on the environment; toxicological effects, conversion, and spread. Prereq: Chem 202, 212, and 237. (3)

**CHEM 381 Polymer Chemistry**  
 Synthesis, physical and analytical characterization, and use of polymers, including fibers, plastics, coatings, and resins. Morphology and rheology of polymers. Prereq: Chem 202 and 212. (3)

**CHEM 391 Chemistry Internship**  
 Off-campus work experience with an approved organization. Prereq: major standing in chemistry and approval of the school. (1-6)

**CHEM 393 Chemistry Seminar**  
 Experience in technical presentations and library research skills. Outside seminar speakers. The chemistry exit assessment examination is part of the course. (1)

**CHEM 395 Independent Study in Chemistry**  
 Prereq: consent of instructor and school. (1-3)

## Computer Science and Telecommunications

**CST 100 PC Software Packages**  
 Basic hardware and software components of a PC; several of the most popular PC software applications including word processing, electronic spreadsheets, databases, Power Point, Interact Brower, and Windows. A computer use course. Prereq: none. (3)

**CST 101 Overview of Information Technology**  
 The evolution of computers, key terminology, components of computers, hardware, software, career opportunities, and practical applications, including the use of the Internet; how business systems are designed; the basic building blocks of programming logic through the use of flowcharts and/or pseudocode. Prereq: none. (3)

**CST 125 Fundamentals of Programming**  
 Structured programming for students with little or no programming experience. How to

write procedures to accomplish specific tasks, such as writing a list, computing a formula, or drawing a diagram. The basic organization of a computer program. Computer language and symbols. Prereq: Math 116; Math 121 recommended. (3)

**CST 150 Computer Science I**  
 General problem solving and the algorithm development process. Simple data types, sequence, selection, repetition, functions, records, files, and one-dimensional arrays. Concepts of top-down program design, testing, functional decomposition, and documentation using good programming style. A computer use course; C++ language. Also available through External Studies Program. Prereq: Math 121. (4)

**CST 246 Data Communications**  
 Foundations of a data communication network architecture and the concepts of data representation in the data transmission process. Data communication methods and data services offered by common carriers. Data communication network management and design issues. Prereq: Cst 150. (3)

**CST 250 Computer Science II**  
 Continuation of Cst 150; development of problem solving using the C++ language including abstract data types, multidimensioned arrays; strings; records and structures; function design, construction, and parameter passing methods; recursion; introduction to objects and classes; pointers: lists, stacks, queues, and trees; and file I/O. Multiple sorting and searching algorithms including concepts of program complexity. Extensive programming required. A computer use course. Prereq: Cst 150; Math 245 recommended. (4)

**CST 261 Introduction to Assembler Language and Architecture**  
 Introduction to computer hardware structure using assembler language. Internal hardware and software structure of a CPU that is normally hidden from programmers using a high level language. Construct simple electronic circuitry using light emitting diodes (LEDs), resistors, capacitors, push-button switches, piezoelectric speakers on a prototyping circuit board. Extensive programming in the assembler language of the CPU to create programs that enable the CPU to interact with the

circuits constructed. A computer use course. Prereq: Cst 150 or consent of instructor. (3)

**CST 263 Visual BASIC Programming I**  
A programming language/tool that allows quick, relatively easy development of Windows programs. The logical constructs of sequence, selection, and repetition; construction of readable, maintainable source code. Records, files, and two-dimensional array processing. A computer use course. Prereq: Cst 150. (3)

**CST 270 Systems Analysis and Design**  
Methodologies, tools, and techniques used in the computer systems development life cycle. Emphasis on planning, analysis, and design phases of a project. The larger context of business process change, competitive advantage, documentation requirements, and data modeling, including the use of UML. Prereq: Cst 150. (3)

**CST 280 Computer Science III: Data Structures**  
Continues the use of C++ to study abstract data types such as sets, trees, heaps, hash tables, and the concepts of inheritance and recurrence relations. Algorithmic strategies such as divide and conquer, greedy, and back-tracking. Algorithms include random number generation, searching, sorting, and string processing. Complexity analysis includes the big O, big omega, big theta, and little o. A computer use course. Prereq: Cst 250 and Math 245. (3)

**CST 290 Telecommunications Systems**  
Overview of the field of voice communications. Topics include the industry, applications, user requirements, regulatory environment, technology, circuits, voice networks, their management and operations, and future directions. Also available through External Studies Program. Prereq: Math 116 or 121. (3)

**CST 317 Operating Systems Concepts**  
An in-depth study of the components and functions of computer operating systems. Topics include system services, file system management, memory management, resource allocation, scheduling, processing levels, multitasking, deadlocks, and interprocess protection mechanisms. Programming projects involve use of system calls in UNIX and Windows. A computer use course. Prereq: Cst 250. (3)

**CST 318 Introduction to UNIX Script Programming**  
Programming on a UNIX-based computer system. How to use standard UNIX utilities such as ssh, scp, vi, awk, grep, sed, emacs, as well as script writing in Perl. How to use X Windows and UNIX GUI tools. UNIX programming environment with an overview of the UNIX process model. Basic UNIX administration including system tool and configuration files. Prereq: Cst 250 or 254. (3)

**CST 325 Computer Ethics**  
Exploration of ethical questions posed by computer and information technology, including communication, privacy, property rights, accountability, and other arenas of professional, societal, and private life. Prereq: UWR and Libs 201 or Bgs 201 or Bgs 302. (3)

**CST 327 Software Project Management**  
Types of problems, decisions, and critical success factors that typically confront software project managers and EDP auditors. The various management skills and methodologies used for planning, organizing, staffing, influencing, and controlling such projects. Prereq: Cst 250 or 263. (3)

**CST 328 Linear Programming and Optimization**  
Models of optimization with linear constraints and objectives; simplex method and related algorithms; duality and sensitivity; transportation and assignment problems; games and network flow applications. See Math 328. Prereq: Math 300 and one programming course. (3)

**CST 330 Numerical Analysis**  
Solution of equations by iteration; interpolation; numerical differentiation and integration; numerical solutions to linear systems. A computer use course. See Math 330. Prereq: Math 232, 300, and one programming course. (3)

**CST 331 Telecommunications Systems Analysis**  
Analyst's perspective of telecommunications services and equipment. Evaluation and selection methods, RFPs, Net Present Value and risk analysis, operating policies, implementation issues, traffic analysis, trunking, and routing. Quantitative methods of analysis are empha-

sized. Prereq: Cst 246 or 290. (3)

**CST 332 Telecommunications Management**  
Manager's perspective of telecommunications. Emphasis on financial analysis and administrative issues such as staffing, organizing, planning, controlling, and negotiating contracts and coordinating system conversion procedures. Prereq: Cst 246 or 290. (3)

**CST 333 Database Design**  
An introduction to databases with emphasis on how to create, maintain, and use a database with SQL. Relational databases, querying, data manipulation, integrity, constraints, and other topics. Prereq: Math 245. (3)

**CST 337 Theory of Computation**  
An introduction to the theoretical foundations of computing. The definition and nature of computational problems and algorithms. The properties of problems that are inherently hard to solve and problems that cannot be solved at all. Use of randomness in computation. Prereq: Math 245. (3)

**CST 340 Computer Architecture**  
Internal organization of the components of computer systems with special focus on the processor. Systems programming, interrupts, and other applications. Prereq: Cst 261. (3)

**CST 341 Compilers and Interpreters**  
The internal organization of systems programs that translate higher level source code into machine code. Syntactical, semantic, and lexical analysis. Grammars, storage allocation, and code generation techniques. Prereq: Cst 280. (3)

**CST 343 OOP with Visual Studio.net**  
An advanced course in programming emphasizing the development of reusable software components via the object oriented programming (OOP) capabilities of C#. Topics include user interface controls; exception handling; classes; function overloading and default arguments; operator overloading; event-driven programming; polymorphism; and UML. Extensive programming required. Prereq: Cst 250 or 263. (3)

**CST 345 Combinatorics**  
Permutations and combinations; identities involving binomial coefficients; inclusion-

exclusion principle; recurrence relations; generating functions; introduction to the theory of graphs. See Math 345. Prereq: Math 245 and 232. (3)

**CST 346 Advanced Data Communications**  
Foundations of communications theory including signaling TDM, STSM, Frame-Relay, ATM, various modulation methods, methods of sizing and optimizing of data circuits, error detection and correction methods, data compression methods. Prereq: Cst 246. (3)

**CST 350 Boolean Algebra and Switching Theory**  
Logic gates and Boolean algebras. Minimization of switching functions, and Karnaugh maps. Introduction to logic circuits, flip-flops, counters and registers. Digital arithmetic. See Math 350. Prereq: Cst 280, Math 245. (3)

**CST 352 Routing I**  
Communication system hardware, organization, and structure. Detailed examination of various communication protocols and interfaces used in computer networks, including routing and route discovery algorithms. A computer use course. Prereq: Cst 354. (3)

**CST 354 Local Area Networks**  
A practical examination of network topologies, protocols, and operating systems such as Windows NT, UNIX, and NetWare. The OSI 7 layer network model; packet switching, text compression, TCP/IP and file transfer protocols. Hands-on network lab experience. Prereq: Cst 246 or consent of instructor. (3)

**CST 357 Systems Programming**  
Introduction to programming at the system level. Programming methods and issues that are specific to working with the operating system. Topics include process, thread model, synchronous and asynchronous event handling, IPC, RPCs and sockets, and distributed applications. Course includes learning to program with JAVA in UNIX and Windows environments. A computer use course. Prereq: Cst 280. (3)

**CST 362 Telecommunications: Regulations and Policies**  
Integration of voice and data concepts with emphasis on current legal and regulatory issues. FCC rules and regulations, court deci-



sions, competitive environment, evolution of industry standards, and current industry trends such as convergence and the information super highway. Prereq: Cst 246 or 290. (3)

#### CST 365 Web Programming I

Design and programming applications for networks and the World Wide Web; client side and server side processing; the use of a web browser as a client and user interface. Internet protocols such as https, ftp, and ssl and issues such as security, reliability, and management. Course includes learning to program with JAVA in UNIX and Windows environments. A computer use course. Prereq: Cst 250. (3)

#### CST 366 Network Security

The tools and techniques used to secure network transmissions, including data encryption, public and private keys, network firewalls, and user authentication techniques. Prereq: Cst 346 or 352. (3)

#### CST 367 Web Database Applications

Interactive web-based applications that use one or several databases. Theoretical and project oriented. Prereq: Cst 333 and background in database theory and design, such as knowing SQL; some familiarity in HTML and other scripting languages. (3)

#### CST 368 Internet and Web Security

Security issues pertaining to Internet, intranet, and the Web. Web security from the point of view of the user, programmer, and system administrator. HTTP authentication; proxy servers and firewalls; Internet security protocols and Secure Socket Layer; electronic payment systems; certificate management and network access layer security; executable content and scripting languages; mobile code and copyrights. Privacy protection; legal and ethical issues; anonymous browsing and censorship; available security tools. Prereq: Cst 365. (3)

#### CST 369 Human Computer Interaction

Design of the interaction between people and computers. Issues related to software development, user interface and design for interactive systems, use of database systems and software engineering as it applies to user interface development environments. Theories, models, usability studies, and controlled experimentation for interactive system production. Programming and command languages, menu

forms, graphical user interface, information visualization and display design. Evaluation of different application software. Prereq: Cst 150. (3)

#### CST 370 Software Engineering I

What constitutes good quality software and what kinds of development processes support its creation? Repeated tasks in software development are used as case studies in software design. Individual assignments and group project. Prereq: Cst 250 or 270. (3)

#### CST 371 Distributed Databases

Use of multiple, physically and logically separate databases. Data modeling, horizontal and vertical fragmentation, distributed query processing, concurrency, deadlocks, and recovery techniques. Heterogeneous and object-oriented databases. Prereq: Cst 333. (3)

#### CST 372 Programming Languages

Global properties of algorithmic languages including scope of declarations, storage allocation, binding time of constituents, subroutines, and tasks. List processing, string manipulation, data description, and simulation languages. Prereq: Cst 250. (3)

#### CST 373 Visual BASIC Programming II

The use of Visual BASIC to create large-scale Windows software applications, including dynamic link libraries, interprocess communication, sorting and searching algorithms, interactive programming, and direct access file techniques. Prereq: Cst 263. (3)

#### CST 375 Software Engineering II

The procedural and computational components of software systems; how to make them tight, clean, and amenable to change. Aspects of the software development process supporting such construction, including formal specification representations. Prereq: Cst 370. (3)

#### CST 376 Web Programming II

Advanced topics in web programming and network applications. Use of existing protocols such as HTTP and FTP as well as technologies for designing custom protocols; chat, instant messaging, file sharing, and other technologies. Course includes learning to program with JAVA in UNIX and Windows environments. A computer use course. Prereq: Cst 365, or Cst

250 and instructor consent. (3)

#### CST 380 Pattern Recognition

Statistical and semantical methods of pattern recognition and analysis. Image processing, control, decision making, and problem solving by computer. Prereq: Cst 280 and Math 217. (3)

#### CST 381 Artificial Intelligence

Concepts and methods of machine learning. Linguistic and relational representation of objects. Various types of learning, including adaptive, procedural, and inductive techniques. Introduction to a functional decision language such as LISP or Prolog. Prereq: Cst 280. (3)

#### CST 382 Computer Graphics

Representation, manipulation, and display of two- and three- dimensional objects. Applications to specific problems, including computer games. Prereq: Cst 280 and Math 300 or concurrent. (3)

#### CST 385 Robotics

Autonomous robot design, construction, and programming. Programming of an embedded processor to read, interpret, and respond to sensor reading describing the real world. Introduction to robotic sensors and the logic required to enable them to construct a view of the external world. An autonomous mobile robot will be constructed and programmed for the course project. Extensive programming, electronic circuit construction, and mechanical assembly required. Prereq: Cst 280 and 261 or consent of instructor. (3)

#### CST 386 Information Retrieval

Modern treatment of the automated classification and retrieval of text-based documents. Library collections and web-based systems. Topics include search engines, spiders, web crawlers, and personal filters. Algorithms for keyboard classification, thesaurus class construction, and document clustering. Multimedia and nontext searches. Prereq: Cst 280 or 284. (3)

#### CST 387 Advanced Data Structures

Analysis of complex data structures and algorithms used in systems programming, database design, and other applications. Topics include B-trees, Fibonacci heaps, graph representation, data structures, graph

search algorithms, minimum spanning tree algorithms, shortest path algorithms, flow networks, techniques for correctness, proof, and worst case complexity analysis of algorithms. A computer use course. Prereq: Cst 280, Math 245. (3)

CST 390 Special Topics in Computer Science  
Course content varies. May be repeated if different special topics are offered. Prereq: vary. (3)

CST 391 Special Topics in Telecommunications  
Course content varies. May be repeated if different special topics are offered. Prereq: vary. (3)

#### CST 395 Independent Study /Internship

Prereq: approval of a faculty sponsor and the director of the School. (3)

#### CST 399 Senior Project

Project to be undertaken at the end of the program of study. Students must obtain a faculty sponsor; prepare a written proposal that includes course objectives, time tables, and measurable evaluation criteria; and receive approval from both the faculty sponsor and director of the School. (3)

## Criminal Justice

#### CRJ 201 Introduction to Criminal Justice in America

Overview of how criminal justice operates in a free and democratic society. Focus on the interaction between law enforcement, courts, and corrections. (3)

#### CRJ 202 Criminal Justice II: The Police

Roles and responsibilities of the police in society; leadership and community relations; legal, technical, and administrative topics in police administration; community policing strategies. Prereq: Crj 201 or Padm 341. (3)

#### CRJ 208 Conflict Resolution in Criminal Justice

Racial and ethnic relations in criminal justice administration. The nature of conflict and methods of conflict resolution. Mediation, arbitration, and role playing. Prereq: Crj 201 or consent. (3)

## Economics

### ECON 101 Principles of Economics I

Overview of how a market society works, trades, consumes, redistributes, and enjoys the fruits of its produce. Macroeconomics is a Sears Tower look at the whole economy; the course will connect the tiny dots to see the big picture. For the student who wants to know more about the relationship between war and growth, free trade and wealth, Alan Greenspan, interest rates, and the fight against inflation. Also available through External Studies Program. (3)

### ECON 102 Principles of Economics II

"The purpose of studying economics," said a famous economist, "is to avoid being deceived by economists." Most economic policy, from welfare reform to federal income taxation, is drafted and defended with the language of "microeconomic" logic. Microeconomics is about the person on the street, the family, Connie's Pizza, Bill Gates and monopoly, Enron and information, gangs and drugs, pollution and production, the Montgomery Bus Boycott, the "feminization of poverty," and the history of welfare reform. Also available through External Studies Program. Prereq: Econ 101. (3)

### ECON 203a, b, c Reality Economics

Economic theory applied to real life: three different five-week segments will comprise each course. Students may elect one, two, or all three segments for one, two, or three credit hours. Content varies each term; but gambling, addiction, homelessness, edge city, small manufacturing, and the stock market are examples. Expect field trips and other hands-on activities. Prereq: Econ 101 or 102 or consent of instructor. (1)

### ECON 205 The American Economy

What did President Clinton mean when he famously proclaimed, "It's the economy, stupid"? What, after all, is the American economy? A non-technical, though rigorous, introduction to the major movements in the American economy and what today's economists think we should do about them. (3)

### ECON 207 American Economic Development Since 1945

A historian's examination of post-war booms

and busts. The development of post-World War II economic institutions and stresses that emerged within them. Domestic and international macroeconomic trends; monetary, fiscal, and social policy; relations between organized labor and business; the astonishing changes in wages and contracts and labor force participation. Prereq: Econ 101. (3)

ECON 209 Unionism and Collective Bargaining History, structure, and function of organized labor in the US. Negotiation, collective bargaining, wages and employment, and evolution of the present legislative and judicial frameworks. (3)

### ECON 210 Money and Banking

See Fin 301. (3)

### ECON 211 Labor and Government

The spirit and impact of social policy on employment and labor relations. A hard-nosed look at minimum wage, unemployment insurance, equal opportunity and affirmative action, public service employment, welfare reform, parental leave, collective bargaining regulations, and restrictions on plant closings. Prereq: Econ 102. (3)

### ECON 212 Race, Gender, and Social Policy

An interdisciplinary course on race and class inequalities in urban settings and the role of public policy in trying to ameliorate these inequalities. (3)

### ECON 216 The Economics of the Minority Experience

The economist's approach to problems of underproduction and underconsumption among minorities. Emphasis on minority development; income and wealth distribution; minority business enterprises; political and economic institutions; urban housing; transportation and health care. (3)

### ECON 234 Elementary Statistics

Sir Francis Galton believed the normal distribution—the bell curve—"would have been personified by the Greeks and deified, if they had known it." Frequency distributions, measures of central tendency and dispersion, binomial and normal distributions, estimation and tests of hypotheses, introduction to linear regression and correlation. Prereq: Math 116 or 121. (3)

## ECON 241 Investments

See Fin 321. (3)

## ECON 248 Gender and Urban Life

Women in 1900 needed six hours a day to prepare food for their family. A hundred years later, after the rise of ready, commercialized food, it's possible to get by with zero hours of preparation. How does the rise of the city affect women's lives? The impact of industrialization, urbanization and suburbanization, and the development of a consumption and service-based economy on women's home and market work. May be used to fulfill a signature course. See Libs 248. Prereq: UWR. (3)

## ECON 302 History of Economic Thought

"Madmen in authority, who hear voices in the air, are distilling their frenzy from some academic scribbler of a few years back." Thus spoke John Maynard Keynes, a 20th-century authority on economic theory and distinguished student of the history of economic thought. The development of economic thinking from the 16th century through the present day. Theories and methodologies of some great economists, such as Adam Smith, David Ricardo, Karl Marx, and Lord Keynes. Prereq: Econ 101. (3)

## ECON 305 Modern Political Economy

Topics from Marxist, Post Keynesian, and Institutional approaches to political economy; focus on their philosophical foundations and political implications. Topics may include growth, distribution, and prices; classes, exploitation, and alienation; the labor theory of value; historical materialism; and the economics of socialism. Prereq: Econ 323. (3)

## ECON 306 Industrial Organization

Evolution of institutional organization of industry in the American economy. Trade associations, cartels, price leadership, and governmental regulatory agencies. Prereq: Econ 102. (3)

## ECON 308 Women and the Economy

A nontraditional study of the economic situation of women in the United States. Most economic analysis assumes individuals "choose" to make "mutually beneficial exchange." The focus here gives attention to power and provisioning (though it does not exclude considerations of choice and

exchange). Interactions between the family, the labor market, and the government in determining women's economic fortunes. Prereq: Econ 102. (3)

## ECON 309 Economics of Urban Inequality

Economic and sociological theories of urban inequality. Urban economic and population trends; urban labor markets and poverty; urban housing markets and poverty; the links between cities and suburbs. Prereq: Econ 102. (3)

## ECON 314 Economics of Globalization

(3)

## ECON 317 Economics of Work and Labor

Study of labor from neoclassical, Institutional, and Marxian perspectives. Quantity and quality of labor supply, demand for labor, discrimination, unemployment, and income inequality. Prereq: Econ 102. (3)

## ECON 318 Contemporary Problems in Collective Bargaining

Current status of labor-management relations, union organizing, and collective bargaining. Challenges to union organizing; effects of unions on wages, productivity, profits, and inflation; employer demands for concessions and union responses; government policies concerning unions; significance of labor market flexibility. Prereq: Econ 102. (3)

## ECON 320 Government in Business

Libertarian or socialist, Republican or Democrat, you have to care. Historically and quantitatively speaking, what does government contribute to the profits of business and the prices and choices available to consumers? Topics have included case studies of regulation in railroad, airline, oil, tobacco, and other industries. Prereq: Econ 102. (3)

## ECON 321 Income and Employment Theory

Intermediate macroeconomics. Contemporary theories of income, employment, money, and the business cycle. Topics may include government stabilization policy, international economic relations, economic growth, and the distribution of income. Prereq: Econ 101 and 102 with a grade of C or higher. (3)

## ECON 322 Economics of Environmental Policy

Examination of environmental policy mak-

ing using the tools of economic analysis. Alternative methods of addressing problems such as air pollution, acid rain, hazardous waste disposal, and water pollution. Current environmental regulations evaluated from an economic perspective. Prereq: Econ 102. (3)

#### ECON 323 Price Theory

Intermediate microeconomics. Theories of the household and the firm as a foundation for the determination of prices in a market economy, efficiency and social welfare, the effects of monopoly, the distribution of income, and government policy. Prereq: Econ 102 with a grade of C or higher. (3)

#### ECON 330 United States Economic History, 1870 to 1940

Like astronomy, economics is primarily a historical science. History is, in fact, a most important observatory for learning about the economic universe. The course reveals the surprising amount of quantitative and qualitative evidence economists have been able to amass to rewrite the histories of slavery, agriculture, the railroad, the corporation, welfare, war, gold, and colonialism. Prereq: Econ 323. (3)

**ECON 333 Comparative Economic Systems**  
Theory and practice of capitalism and socialism in selected countries; approaches to the transition from socialism to market systems. Prereq: Econ 102. (3)

**ECON 338 Money and the Economy**  
Role of money and financial institutions in modern economies investigated through modern macroeconomic theory. Prereq: Econ 210, Fin 301. (3)

**ECON 346 Introduction to Econometrics**  
Construction of economic models, statistical testing of economic hypotheses, and estimation of parametric values in economic relationships using regression analysis. Computer applications. Prereq: Econ 234. (3)

**ECON 347 Topics in Quantitative Economics**  
Advanced econometric theory, linear programming, simulation, optimization techniques, dynamic analysis, and advanced theory. Computer applications where appropriate. Prereq: Econ 234, 346, and 363, or consent of instructor. (3)

**ECON 352 Urban Economic Development**  
Interdisciplinary approach to theories of urban/local economic development including economics, planning, political science, finance, sociology, and marketing. Real world economic issues including local area, business, community, and human resource development, high technology, and technology transfer. Prereq: Econ 102. (3)

**ECON 363 Mathematics for Economists**  
Mathematical tools and techniques in modern Keynesian, Neoclassical, Marxian, and Neoricardian economic theories. The methodology of mathematical economics, sets, functions, matrix algebra, comparative statics, and differential calculus. Prereq: Econ 102, Math 121, and a solid knowledge of college algebra. (3)

**ECON 370 Economics of the Public Sector**  
Theory and practice of government involvement in resource allocation and distribution; cost-benefit analysis; various public policy issues such as medical care, crime, Social Security, and law. (3)

**ECON 372 Public Finance**  
Public expenditure theory, supply and demand of public goods, criteria for optimal allocation of resources. Philosophy, practice, and incidence of taxation. Prereq: Econ 102. (3)

**ECON 374 The Economics of Development and Underdevelopment**  
Major models in development from theoretical and practical perspectives. Mainstream, capital centered, and dualistic theories; growth with equity; basic needs; dependency; and Marxian approaches. Prereq: Econ 102. (3)

**ECON 376 International Trade, Multinational Corporations, and the Question of Imperialism**  
Theory of international trade, international movements of capital and labor, and national commercial policies; economic analysis of multinational corporations and imperialism. Prereq: Econ 102. (3)

**ECON 377 International Finance and Balance of Payments**  
Theory and description of foreign exchange rates and foreign exchange markets; interactions between national income and balance of payments; evaluation and reform of international monetary institutions. Prereq: Econ 102. (3)

**ECON 390 Economic Theory and Policy Seminar**  
Application of economic theory to selected problems. Preparation and presentation of student research reports. Open to advanced economics majors only. Prereq: Econ 234, 321, and 323. (3)

**ECON 395 Independent Study**  
Study of special topics under supervision of faculty. (3)

## Education

**EDUC 200 American Education**  
Introduction to professional course sequence. Opportunities, requirements, and expectations of the teaching profession; relation of schools to American society and culture; education issues and policy making; development of contemporary school organization, purpose, and programs. Satisfies American public education and history of education course requirements for certification. Open as elective to all University students. Prereq: sophomore standing and UWR. (3)

**EDUC 210 Child Development for Educators: Infancy Through Adolescence**  
Comprehensive study of child growth and development from conception through adolescence. Emphasis on early stages as foundation for later physical, social, emotional, and cognitive development. Theories and current research focusing on development and learning. Detailed, major-related study of appropriately aged child as course project. (3)

**EDUC 295 Independent Study**  
Proposal for independent study must state purpose, problem, methods of approach, and evaluation. Proposal must be approved by student's advisor and college dean and be conducted under faculty guidance. (1-6)

**EDUC 303 Health for Educators**  
Programs and curriculum intended to help students better understand both their own health needs and those of early childhood, elementary, and secondary school students. Topics include substance abuse, nutrition, and safety. (3)

**EDUC 311 Adolescent Development**  
Physical, cognitive, social, and emotional development during adolescence. Application of developmental principles to middle school and high school students. (3)

**EDUC 313 Foundations of the Middle School**  
Historical, social, and philosophical foundations of middle level education. The evolution of the middle school concept; the creation of learning communities attentive to the needs of young adolescents; health and personal support for students; curriculum development and instructional strategies for young adolescents; parent and community involvement and the use of technology to support learning. (3)

**EDUC 321 Creative Arts in Education**  
Methods and attitudes to develop artistic interests and skills in children. Integration of music, art, movement, and dramatics into the curriculum. Prereq: for elementary education majors Educ 200, 210, and consent of instructor. (3)

**EDUC 352 Topical Workshop**  
Topics may include multicultural education and seminars in reading that feature attendance at annual meetings of the International Reading Association. Not applicable toward BAE degree without special permission of undergraduate advisor. Prereq: consent of advisor. (1-6)

**EDUC 358 Linguistics for Teachers of English as a Second Language**  
Theory and research on learning English as a second language (ESL). Foundation for understanding linguistics and learning theory specific to ESL and bilingualism. Thirty clock hours of field experience required. Prereq: Echd 334. (3)

**EDUC 368 Foundations of Bilingual and ESL Education**  
Historical, philosophical, theoretical, sociocultural, and legislative foundations of bilingual and ESL education in the US. Comparison of different methods and models of bilingual and ESL education; examination of current issues. Ten clock hours of field experience required. (3)

**EDUC 370 Cross-Cultural Studies for Teaching**

**Limited English Proficient Students**

The impact of culture on individuals, groups, school, work, communities, and society. Ecological perspective on culture and context; focus on individuals with limited English proficiency in the US. (3)

**EDUC 373 Assessment of Bilingual Students**

Full range of bilingual assessment from standardized tests such as the Language Assessment Scale to authentic assessment methodology. Emphasis on authentic assessment techniques in the classroom, including portfolios, projects, student self-assessment, curriculum-based assessment, observation, and teacher-made assessment tools such as rubrics and checklists. Fifteen clock hours of field experience required. (3)

**EDUC 374 Methods and Materials for Teaching Limited English Proficient Students in Bilingual Programs**

Comprehensive overview of theories, techniques, and principles. Methods and materials across subject areas and grade levels; emphasis on the development of listening, speaking, reading, and writing skills across the curriculum for LEP students. Constructivist approach to learning and methods for adapting lessons to meet the specific needs of LEP students. Fifty clock hours of field experience required. (6)

**EDUC 375 Methods and Materials for Teaching English as a Second Language**

Comprehensive overview of theories, techniques, and principles. Methods and materials across grade levels; issues related to needs assessment, unit/lesson planning, selection/evaluation of classroom materials, development of materials for second language instruction. Various developmental processes involved in the learning of primary and secondary languages as basis for instruction techniques at all grade levels. Twenty-five clock hours of field experience required for bilingual approval students. (3)

**EDUC 385 Technology in the Classroom**

Use of computers in classroom instruction and classroom management. Emphasis on classroom use of general applications, educational software, and the Internet; focus on using technology for problem solving. Prereq: familiarity with basic computer applications. (3)

**EDUC 395 Independent Study**

Proposal for independent study must state purpose, problem, methods of approach, and evaluation. Proposal must be approved by student's advisor and college dean and must be conducted under faculty guidance. (1-6)

## Education: Early Childhood

**ECHD 221 Introduction to Early Childhood Education**

Early childhood curriculum and program organization; analysis of programs for early childhood as well as adaptations for infant, exceptional, and bilingual children. Requires 25 hours of field experience. Prereq: sophomore standing. (3)

**ECHD 305 Assessment in Early Childhood**

Introduction to early childhood measurement and assessment techniques. Fundamentals of psychometric theory; review of commonly used standardized tests and classroom evaluation techniques. Prereq: Educ 210, Echd 301, and consent of instructor. (3)

**ECHD 309 Child, Family, and Community**

Family and community involvement in educational programs; impact on child and family development. (3)

**ECHD 311 History and Philosophy of Early Childhood Education**

Historical and philosophical perspectives of early childhood education goals and practices, program models, and issues. (3)

**ECHD 332 Pre-Primary Science, Math, and**

**Social Concepts in Early Childhood Education**  
Constructivist research and theories in teaching science, math, and social studies to children from infancy through kindergarten. Prereq: Educ 210; basic requirements in science, mathematics, and social science; and consent of advisor. (3)

**ECHD 333 Primary Science, Mathematics, and**

**Social Concepts in Early Childhood Education**  
Introduction to constructivist research and theories in teaching science, mathematics, and social studies to children from grades one through three. Examination and evaluation of appropriate materials and activities in school settings. Requires 25 clock hours of field experience. Prereq: Educ 210; basic requirements in

science, mathematics, and social science; and consent of advisor. (3)

#### ECHD 334 Language Development

Language development from infants through primary-aged children. Topics include speech and language processes for communication, language development stages, theories of language acquisition, assessment of language development, and activities to foster language development. Attention to linguistically diverse populations as well as to children who develop differently from the norm. (3)

#### ECHD 337 Literacy in Early Childhood

Development: Reading and Language Arts Theory and research on literacy development. Selection and development of prereading/ prewriting and reading/writing curricula for preschool, kindergarten, and primary grades. Emphasis on development of literacy in the primary grades. Prereq: Educ 210, 221, 309, 334, or consent of instructor. (6)

#### ECHD 374 Student Teaching and Seminar in Early Childhood Education: Preschool/ Kindergarten

Supervised observation and teaching. Students design and implement curriculum plans and assess individual child and group progress. Students demonstrate their understanding of the role of family and community in child education. Seminar discussions on educational setting and analysis of student's own role in classroom and community. Prereq: all methods and field experience courses, 100 clock hours of field experience, and consent of advisor. (6)

#### ECHD 375 Student Teaching and Seminar in Early Childhood Education: Primary

Supervised observation and teaching in primary grade settings. Students design and implement curriculum plans, assess progress of individual children and the group, and demonstrate understanding of the role of family and community in child's education. Weekly seminar discussions focus on educational setting, teaching strategies, and individual problems. Prereq: all methods and field experience courses, 100 clock hours of field experience, successful completion of all required State certification tests, and written consent of advisor. (6)

#### ECHD 382 Early Childhood Special Education Methods

Skills necessary for working with young children with special needs. Laws, assessment, family focus, intervention principles, appropriate techniques, suitable materials, and inclusion of children with special needs in early childhood settings. The development and implementation of IFSPs and IEPs. Twenty hours of field experience required. Prereq: Sped 319. (3)

## Education: Elementary

#### ELED 261 Field Experience and Seminar

Weekly seminar sessions develop observation skills and focus on topics of classroom management and parent communication. Requires 30 clock hours of observation and participation in educational settings, including tutoring and small group instruction. Prereq: Educ 200 or 210, or concurrent. (3)

#### ELED 321 Teaching Mathematics in the Elementary School

Mathematical concepts from the K-9 elementary school curriculum. Emphasis on implementing NCTM standards, the use of manipulatives, cooperative learning, problem solving and integration of mathematics into other content areas. Prereq: Educ 200, 210, Eled 261, Math 105, and Basic Skills Test. (6)

#### ELED 325 Teaching Science in the Elementary School

Place of natural and physical science in elementary school curriculum; application of learning principles and consideration of children's interests in selection and use of science instructional materials; analysis of courses of study. Prereq: Educ 200, 210, and Eled 261. (3)

#### ELED 327 Teaching Social Studies in the Elementary School

Analysis of social studies programs in K-9 elementary schools. Objectives, traditional and computer assisted methods, materials, organizational structure, and evaluation. Basic social sciences concepts, contributions of educational, multicultural, and urban studies research. Students use community resources and problem solving approaches to construct teaching-learning materials. Emphasis on



individualizing instruction to meet needs of all children. Prereq: Educ 200, 210, and Eled 261. (3)

#### ELED 361 Pre-Student Teaching Field Experience

Weekly seminar sessions focus on roles and responsibilities in elementary school teaching. Requires at least 50 clock hours of observation, participation, tutoring, and small and large group instruction in educational setting. Prereq: all course work necessary prior to student teaching, senior standing, and consent of advisor. (3)

#### ELED 366 Student Teaching and Seminar in the Elementary School

Supervised observation and teaching in a local K-9 elementary school, seminar discussions concerning observational records, teaching strategies, evaluation, and individual problems; emphasis on development of independence and skills through self-analysis techniques. Prereq: all education courses, senior standing, all general education requirements, 100 clock hours of field experience, and consent of advisor. (6)

## Education: Language and Literacy

#### READ 320 Teaching Reading in the Elementary School

Approaches to teaching beginning- and primary-level reading and expanded approaches at all levels including middle school; language arts/reading interrelatedness. Balanced literacy and literature-based instruction; assessment strategies, materials, and organization of differentiated programs of reading instruction. Prereq: Educ 200, 210, and Eled 261. (6)

READ 323 Teaching Language Arts and Children's Literature in the Elementary School Objectives and materials in teaching listening, speaking, and writing skills in elementary schools. Emphasis on literature-based instruction. Effects of diverse cultural and literary heritages on children's literature. Prereq: Educ 200, 210, and Eled 261. (3)

READ 385 Technology in the Classroom Use of computers in classroom instruction and

classroom management. Emphasis on classroom use of general applications, educational software, and the Internet; focus on using technology for problem solving. Prereq: familiarity with basic computer applications. (3)

## Education: Secondary

SEED 301 Seminar in Secondary Education Principles and practices of secondary education (6-12). Curriculum, student-centered instructional methods; approaches to assessment; classroom management; reflective practice. Requires 15 hours field experience in a variety of educational settings. Prereq: consent of advisor. (3)

#### SEED 321 Methods of Teaching Secondary Business Education

Curriculum, instruction, standards, and assessment for business, economics, accounting, and keyboarding. Based on National Business Education Association standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: Seed 301 or concurrent. (3)

#### SEED 322 Methods of Teaching Secondary Science

Science curriculum and instruction, standards, and assessment. Based on National Science Teachers Association standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: consent of advisor. (3)

#### SEED 323 Methods of Teaching Middle School and Secondary Mathematics

Mathematics curriculum and instruction, standards, and assessment. Based on National Council of Teachers of Mathematics standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: consent of advisor. (3)

#### SEED 324 Methods of Teaching Secondary Foreign Languages

Foreign language curriculum and instruction, standards, and assessment. Based on Modern Language Association standards for the design of student-centered programs, including

courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: consent of advisor. (3)

#### SEED 326 Methods of Teaching Secondary Social Studies

Experience and practice in social studies curriculum theory, research-based instruction, standards, and assessment. Based on standards of the National Council for the Social Studies for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: Seed 301 or concurrent. (3)

#### SEED 327 Methods of Teaching Secondary English

Experience and practice in English language arts curriculum theory, research-based instruction, standards, and assessment. Based on standards of the National Council of Teachers of English for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: Seed 301 or concurrent. (3)

#### SEED 332 Methods of Teaching Secondary Theatre Arts

Theatre arts curriculum theory and application. Research-based instructional strategies for the design of student-centered programs, including courses, unit, activities, and experiences for secondary students in theatre arts. Prereq: Seed 301 or concurrent. (3)

#### SEED 350 Field Experience in Secondary Education

Observation and classroom experience in educational settings. In-depth lesson and unit development and presentation using multiple methods and assessments. Focus on various classroom management approaches within the context of reflective practice. Sixty clock hours of field experience. Prereq: Educ 301 and consent of advisor. (3)

#### SEED 360 Student Teaching and Seminar in the Secondary School

Supervised observation and teaching in local junior or senior high school. Seminar discussions of observational records, teaching strategies, evaluation, and individual problems. Emphasis on development of independence and skills through self-analysis techniques. Prereq: recommendation of Seed 350 instructor. One hundred clock hours of

field experience and consent of advisor. See section on student teaching for other requirements. (6)

## Education: Special Education

SPED 261 Field Experience and Seminar  
Observation skills developed in weekly seminars; focus on classroom management and collaboration. Participation in educational settings including individual tutoring and small group instruction. Prereq: Educ 200, 210, or concurrent. (3)

SPED 309 Child, Parent, and Community  
Parent and community involvement in educational programs; impact on child and family development. (3)

SPED 319 Exceptional Children and Youth  
Comprehensive overview of all types of exceptionality. Fulfills requirements of Illinois House Bill 150. Exceptional characteristics of mentally, physically, or emotionally disabled children; the special instructional programs, practices, and facilities that help them realize their potential more fully. (3)

SPED 340 Assessment in Special Education  
Test selection, classification, and placement decisions. Use of various techniques for evaluation of the progress of individuals in special education at all levels. Laboratory experience in administering, scoring, interpreting, and reporting test results. Prereq: Educ 319 or consent of instructor. (3)

SPED 342 Characteristics and Methods of Teaching Students With Cognitive Disabilities  
Curriculum, major objectives of instruction, and specific methods and materials for teaching students with cognitive disabilities. Preparation of the Individualized Education Program (IEP) and transition planning; evaluation techniques; recent research. Prereq: Sped 319. (4)

SPED 343 Characteristics and Methods of Teaching Students With Behavior Problems  
Functional assessment of behavior and the development of intervention plans to address behavior problems. Alternative resources, techniques of classroom management, and application of recent research. Prereq: Sped

319. (4)

**SPED 345 Characteristics and Methods of Teaching Students With Physical and Other Health Related Disabilities**  
Educational considerations for students with physical disabilities and other health impairments. Emphasis on technology, assistive strategies, the principle of partial participation, and curriculum modification and adaptation. Recent research in disabilities that limit mobility, fine and gross motor skills, and independent living. Prereq: Sped 319. (4)

**SPED 346 Characteristics and Methods of Teaching Students With Perception and Other Specific Learning Disabilities**  
Perception deficits and their impact on the learning process. Autism, traumatic brain injury, and specific learning disabilities. Emphasis on inclusion and the adaptation and modification of curriculum; current research. Prereq: Sped 319. (4)

**SPED 361 Internship in Special Education**  
Five-week internship in special education setting; hands-on work with students with special needs. Precedes student teaching; provides intensive experience across the spectrum of educational placements and age levels. Class members participate in planning and implementing individual student, small group, and whole class lessons. Focus on IEP goal integration into planning. Weekly seminar sessions focus on the roles and responsibilities of the special educator. Prereq: all professional courses except student teaching. Concurrent enrollment in Sped 366. (3)

**SPED 366 Student Teaching and Seminar in Special Education**  
Supervised observation and teaching in local K-12 school; seminar discussions concerning observational records, teaching strategies, evaluation, and individual problems. Ten-week experience in a special education setting. Emphasis on development of independence and skills. This course follows internship and provides intensive experience across the spectrum of educational placements and age levels. Prereq: senior standing, all gen ed requirements, 100 clock hours of field experience, all professional courses, and consent of advisor. Concurrent enrollment in Sped 361. (6)

**SPED 382 Early Childhood Special Education Methods**  
Skills necessary for working with young children with special needs. Laws, assessment, family focus, and inclusion of children with special needs in early childhood settings; the development and implementation of IFSPs and IEPs. Requires 20 hours of field experience. Prereq: Sped 319. (3)

## Education: Teacher Leadership

**TLED 330 Engaged Learning in the Classroom**  
Instructional methods and technology tools to create an engaged learning classroom. Example of an engaged learning lesson designed to meet the criteria for constructivist student learning. Procedures to create interactive web pages that promote online, engaged learning processes for students from primary through high school levels. Focus on the application of authentic assessment tools and portfolios. (3)

**TLED 331 Portfolio-Based Assessment in Schooling**  
Instructional and multimedia methods and technology tools that can be used to create web-based, digital portfolios and portfolio conferences that support the engaged learning classroom. The evolution of portfolio assessment in education; current examples of portfolio applications in schooling. (3)

**TLED 340 Positive Discipline in the Classroom**  
Examination of where and why student behavior problems exist. Cooperative learning as well as other teaching strategies to enable teachers and students to build a community of learners who want to be responsible for their own behavior. (3)

**TLED 341 Psychological Perspectives of Human Development**  
Theory and research on human development. Neurobiological, psychoanalytic, behavioral, humanistic, cognitive, and socio-cultural perspectives. Lifespan stages provide the time frame for the course sequence. Emphasis on preparing and advancing the educational practitioner. (3)

## English

### ENG 100 Basic Writing Practice

Integrated practice in reading and writing skills necessary for college-level work. Small, personalized classes help students develop analytical and organizational strategies for both multi-drafted writing projects and in-class essay exams. This is a pass/fail course. Many students complete the course with a passing grade (P) in one semester. Those who need more practice may have an additional semester in which to complete it without paying additional tuition. (3)

**ENG 101 Introduction to Composition**  
Instruction and practice in analytical reading, expository writing, and revision strategies. Techniques for developing arguments based on multiple sources. (3)

**ENG 102 Argumentation, Analysis, Research**  
Continuation of English 101 with longer, more complex writing assignments in argumentative forms; increased attention to analytical readings; training in the use of the library and in integrating secondary sources. All students write two documented research papers. (3)

### ENG 203 Mythology

Ways in which African, European, Asian, and Native American myths reveal political history and world views. Students write their own myths and read contemporary fiction influenced by particular mythological traditions. Satisfies non-Western requirement. (3)

**ENG 205 Introduction to Shakespeare**  
Study of Shakespearean drama, including representative works from the major genres (tragedy, comedy, history, romance). Roots of Shakespeare's literary influence; rich imagery, structural sophistication, and verbal virtuosity of the plays. The place of the drama in the political and social spheres of early modern Britain. (3)

**ENG 207 Introduction to African-American Literature**  
African-American literature from the 18th century to the present. Early slave narratives and poetry; writings about abolition and Jim Crow; Harlem Renaissance; and postmodernist treatments of African-American experience. Satisfies non-Western requirement. (3)

### ENG 209 Style and Grammar

Grammar instruction with emphasis on structural conventions of written English. Style workshops emphasize how communicative choices influence readers of grant proposals, letters to the editor, web pages, business presentations, and other forms of public writing. Primarily for nonmajors who want to sharpen their public images on paper or online. (3)

### ENG 210 British Literature to 1789

Survey of British literature in all genres with focus on significant works from the medieval period, the Renaissance, and the Neo-Classical Age. Distinctive characteristics of the works; connections to the traditions of British literature; contributions to the evolution of British culture. (3)

### ENG 211 British Literature 1789 to Present

The literary and cultural developments of the Romantic, Victorian, modern, and contemporary eras of British literature. Working with texts from all genres, students explore shifts in literature and aesthetics with respect to social and industrial revolution, imperial advance and decline, and modernity and postmodernity. (3)

### ENG 212 American Literature to 1865

Texts from the colonial period through the Civil War; emphasis on the variety of genres—Native American myths, journals and autobiographies, sermons, slave and captivity narratives, public debates, essays, poems, and prose fiction. How the social and historical contexts for these writings defined the emerging cultures of the US. (3)

### ENG 213 American Literature 1865 to Present

The cultural development and literary experimentation of American writing in the wake of national crisis, through the development of the US as an industrial society, and into the era of global prominence dubbed the "American Century." The wide range of theories, practices, and social meanings of American writing. (3)

### ENG 215 Introduction to Ethnic Literatures

Representative works from multiple ethnic traditions. Themes may include cultural preservation and assimilation; intersections of gender, race, and class; narrative forms and identity; and relationships between writers and their communities. Satisfies non-Western

requirement. (3)

**ENG 216-218 Topics in Literature**  
Rotating courses in specific European, American, and global literatures. Issues include theories of ethnicity, cultural aesthetics, and the social significance of literary production in particular cultures. Depending on topic, may fulfill non-Western requirement. (3)

**ENG 220 Introduction to Literary Analysis**  
Close reading of poetry, fiction, and drama; introduction to literary theories to develop a critical vocabulary and interpretive strategies for textual analysis. Writing assignments increase awareness of why we read literature, how literary reading relates to other kinds of reading, and what the experience of literature means in our society. Prereq: UWR. (3)

**ENG 222 Writing About Ideas**  
Advanced writing course using literary texts, readings from multiple disciplines, and writing about personal experience to involve students in the production of academic and other kinds of knowledge. Emphasis on revision, organization, argumentation, and style. Prereq: UWR. (3)

**ENG 247 Modernist Literature and the Arts**  
Challenges to established aesthetics in writing, music, architecture, painting, and other fields focusing on 1890 to 1945. Social and political contexts for artistic experimentation in the US and Europe. May be used to fulfill a signature course. See Libs 247. Prereq: UWR. (3)

**ENG 253 Introduction to Creative Writing**  
Through work in three genres—fiction, poetry, and either creative nonfiction or playwriting—students develop personal voice and effective use of concrete and metaphoric detail. The craft unique to each genre explored through critique of student writing and close reading of work by notable authors, both contemporary and historic. Prereq: UWR or consent. (3)

**ENG 270 Exploring the Short Story**  
Analysis of traditional through contemporary short fiction from around the world. Emphasis on elements of structure—plot, setting, character, point of view—and cultural significance of short story form. (3)

**ENG 276 Methods of Teaching Secondary English**  
See Seed 327. Prereq: Eng 220 or consent. (3)

**ENG 302 Professional Writing**  
Conventions and strategies for legal, business, technical, and scientific writing. Designed for nonmajors who want to improve work-related writing skills and for majors considering careers as professional writers. Prereq: Eng 222 or consent of instructor. (3)

**ENG 304 Intermediate Fiction Writing**  
Intensive workshop in fictional narrative. Critique of student work and study of narrative craft. Understanding the craft of fiction through representative published work. Some attention to the history of contemporary American fiction, its influences and current directions, including short, short fiction. Prereq: Eng 253. (3)

**ENG 305 Intermediate Poetry Writing**  
Intensive workshop concentrating on critique of student work augmented by close study of significant contemporary figures. Some emphasis on the history of contemporary American poetry and the student's relationship to current trends. Prereq: Eng 253. (3)

**ENG 306 Fundamentals of Film Studies: American Cinema**  
Introduction to film and its American practitioners. Emphasis on basic techniques and vocabulary for analyzing and writing about film and reading film theory. Attention to prominent directors and popular genres—the thriller, melodrama, Western, buddy picture. Prereq: Eng 220 or Art 246. (3)

**ENG 307 Film History**  
History of the medium with attention to technological, aesthetic, and cultural developments and influence. Secondary focus varies by semester but may include spectacle, independent film, sound, or auteur theory. See Art 307. (3)

**ENG 308 Topics in Film**  
Detailed study of a genre, director, national cinema, or theoretical question in film studies. Subjects vary by semester but may include gender and film, film noir, new German cinema, women directors, African-American cinema, or theories of spectatorship. Prereq: Eng 306 or 307. (3)

**ENG 309 Topics in Film and Literature**  
Detailed study of a particular intersection of film with literature. Subjects may include Shakespearean adaptations, plays adapted

to the screen, adaptations of the American or British novel, or the influence of poetry on film in the work of independent and experimental filmmakers. Prereq: Eng 306 or 307. (3)

**ENG 310-19 Advanced Studies in British Literature**

Period-based study of significant literary topics in British literature. Emphasis on the interpretation of literary texts within the context of specific cultural formations and developments. Topics may include early modern plays and pamphlet literature; non-Shakespearean early modern drama; revolution, rights and Romanticism; women writers and the world wars; anxieties of empire in British literature. Prereq: Eng 220. (3)

**ENG 320-329 Advanced Studies in American Literature**

Period-based study of significant literary topics in American literature. Emphasis on the interpretation of literary texts within the context of specific cultural formations and developments. Topics may include early American novel, American Gothic, 19th-century American poetry, 20th-century women's fiction, contemporary American literature, and 20th-century literary naturalism. Prereq: Eng 220. (3)

**ENG 330 Post-Colonial Literature**

Anglophone literature of all genres from Africa, the Caribbean, and South Asia in the aftermath of the British Empire. Emphasis on literary response to cultural and linguistic colonization; analysis of national identity, cultural hybridity, and post-colonial subjectivity, and redefinitions of race and gender. Fulfills non-Western requirement. Prereq: Eng 220. (3)

**ENG 331 Advanced Fiction Writing**

Workshop on the craft of the short story. Emphasis on the various means of storytelling—point of view, tone, character development, and plot. Prereq: Eng 253 and submitted portfolio to creative writing committee. (3)

**ENG 332 Advanced Poetry Writing**

Workshop on poetic composition and revision; study of the connection between classical metrical poetry and the more eclectic free verse of contemporary poetry. Prereq: Eng 253 and submitted portfolio to creative writing committee. (3)

**ENG 333 Advanced Play Writing**

Workshop on elements of writing for live performance—story, dialogue, action, characterization, and plot. Monologues written for one actor, two-person scenes, three-person scenes, blackouts, short skits, and comedy scenes. Students will read from their work throughout the semester and supplement their own writing with readings of contemporary authors. Prereq: Eng 253 and submitted portfolio to creative writing committee. (3)

**ENG 334 Advanced Nonfiction Writing**

A workshop on the techniques of nonfiction storytelling; emphasis on personal narrative, including memoir. Prereq: Eng 253 and submitted portfolio to creative writing committee. (3)

**ENG 337 Screenwriting**

Students produce a full-length screenplay in a workshop atmosphere while analyzing the techniques professional screenwriters use to create complex characters, thrilling action, and original plots. Some attention to marketing the screenplay, including the treatment and pitch. Prereq: Eng 253, 306, or 307. (3)

**ENG 340-347 Advanced Studies in Theme or Movement**

Intensive study of literary texts that share philosophical concerns, motifs, or historical perspectives. Prereq: Eng 220. (3)

**ENG 348 History and Literature of Native American Genocide**

Issues of native ethnic identity within American culture. Focus on a wide variety of documents, historical and literary. Students produce an interdisciplinary research paper and may use the course to satisfy the senior seminar requirement. See Libs 348. Prereq: senior standing and UWR. (3)

**ENG 349 Advanced Studies in a Theme or Movement**

(3)

**ENG 350-359 Advanced Studies in a Literary Genre**

Detailed theoretical examination of a literary genre, including novel, lyric, satire, autobiography, drama, and others. Attention to structure and typical cultural preoccupations of various forms. May follow development of a genre across a broad time span or during a particular

historical movement. Prereq: Eng 220. (3)

#### ENG 360 Topics in Shakespeare

Advanced study of specific issues or themes in a group of Shakespeare's works. Points of focus might include the approaches to history in the two Henriads; the verse structure of the sonnets as compared to that of the plays; representations of women in the drama. Prereq: Eng 220. (3)

#### ENG 361-364 Studies in a Single Author

Detailed study of one writer in his/her cultural context. Courses recently offered include Jane Austen, Walt Whitman, Eugene O'Neill, Toni Morrison, Aphra Behn, and Mark Twain. Prereq: Eng 220. (3)

#### ENG 365 Literary Theory and Criticism

Critical methods of significant literary theorists, ancient and modern. Writing assignments involve hands-on application of theories to specific literary texts. Required of all English MA students; should be taken during first year of enrollment. (3)

#### ENG 366 Advanced Studies in Critical Theory

Intensive study of one or two schools of critical theory—post-structuralism, post-colonialism, Marxism, feminism, theories of ethnicity, cultural studies—and their implications for study in language, literature, and representation. Primary readings in theoretical texts and their implications for practice. Prereq: Eng 220. (3)

#### ENG 367 Studies in Composition Theory

Cultural, cognitive, and political theories about the acquisition and practice of advanced literacy skills. Students investigate the roles that reading, direct grammar instruction, rhetoric, and revision play in various approaches to the teaching of writing. Prereq: Eng 220. (3)

#### ENG 380 History of the English Language

Historical and sociolinguistic development of the English language, focusing on its sounds, grammar, and vocabulary, as well as on current-day cultural contexts for language differences. Prereq: Eng 220. (3)

#### ENG 383 Literary Magazine Internship

Internship working on Oyez Review, Roosevelt's literary magazine. Full range of experience, including selection of submissions, layout, and marketing. Prereq: Eng 253 and a

300-level creative writing course. (3)

#### ENG 385 Internship in the Teaching of Literature

Student is apprenticed to an experienced teacher in an English literature course and participates in class planning and procedures. Construction of syllabus, lesson plans, lectures, writing assignments, and tests supplemented by classroom experience in facilitating discussions and supervising student progress. Prereq: Eng 220, sufficient advanced course work in area of internship, and consent of instructor and program chair. (3)

#### ENG 387 Internship in the Teaching of Composition

Student is apprenticed to an experienced teacher in a composition course and participates in class planning and procedure. Readings in composition theory supplemented by classroom observation and tutoring under supervision of director of composition. Prereq: Eng 220 and consent of instructor and director of composition. (3)

#### ENG 395 Independent Study

Prereq: consent of instructor and school director. (3)

## English Language Program

#### ELP 070 Beginning Conversation

Develops the ability of ESL students to perform routine daily functions inside and outside a university setting. Includes work in listening comprehension and pronunciation. Prereq: consent of the director of ELP. (3)

#### ELP 071 Beginning Grammar

Focuses on grammatical structures, word forms, and functions basic to American English sentence structure. Stresses both grammatical accuracy and the communicative needs of non-native speakers of English. Prereq: consent of the director of ELP. (3)

#### ELP 072 Beginning Reading

Provides basic, functional vocabulary for everyday life in the US; the foundation of vocabulary for academic study. Allows students to develop interactive reading skills through a variety of prose and non-prose print materials.

Prereq: consent of the director of ELP. (3)

#### ELP 073 Beginning Composition

Introduces basic format and conventions of an academic essay in American English. Using a process approach, non-native speakers of English begin writing at the paragraph level and expand to a basic five-paragraph essay. Prereq: consent of the director of ELP. (3)

#### ELP 080 Intermediate Conversation

Develops oral fluency and listening comprehension by promoting ability of non-native speakers of English to exchange abstract information, to set criteria and problem solve, to understand information and ideas presented in academic lectures, and to discuss cultural issues in an American academic environment. Includes pronunciation work. Prereq: consent of the director of ELP. (3)

#### ELP 081 Intermediate Grammar

Builds on grammar structures covered in ELP 71. Focuses on verb forms and their use in American English. Also reviews basic American English sentence patterns and introduces complex sentences. Stresses grammatical accuracy and the communicative needs of internationals living in the US. Prereq: consent of the director of ELP. (3)

#### ELP 082 Intermediate Reading

Focuses on improving academic reading skill for international students who plan to attend a US college or university. Introduces students to academic study skills through use of an English-English dictionary and other reference materials available in a university setting. Prereq: consent of the director of ELP. (3)

#### ELP 083 Intermediate Writing

Further develops composition skills introduced in ELP 73. Encourages written expression that follows acceptable American English academic logic. Emphasizes the process approach, especially revision and editing, to encourage independent writing. Introduces discourse features such as audience, appropriateness in topic selection, and support and organization based on rhetorical modes. Prereq: consent of the director of ELP. (3)

#### ELP 090 Advanced Conversation

Develops listening and speaking skills that allow English language learners to be successful

in an academic environment. Using authentic materials, develops such skills as listening to lectures and note taking as well as participating in and leading small and large group discussions on academic topics and current events. Includes individualized pronunciation work. Prereq: consent of the director of ELP. (3)

#### ELP 091 Advanced Grammar

Reviews the basics of English sentence structure introduced in ELP 71 and ELP 81 that often pose problems for non-native speakers of English. Develops grammatical accuracy in spoken discourse but focuses on more complex structures, with emphasis on the different kinds of clauses and rhetorical devices used to communicate effectively in formal, written English. Prereq: consent of the director of ELP. (3)

#### ELP 092 Advanced Reading

Focuses on the wide variety of written discourse encountered by students in US colleges and universities and the various reading strategies that non-native speakers can use for effective reading. Requires students to use skills for both intensive and extensive reading of materials in their original, unsimplified form. Develops study skills and academic research skills. Prereq: consent of the director of ELP. (3)

#### ELP 093 Advanced Writing

Refines skills and concepts introduced in ELP 83. Increases the non-native writer's independence and ability to develop, refine, and edit his/her own work. Covers discourse concepts such as purpose, appropriate support, relevant examples, and appreciation of audience. Requires that students take an active role in the writing process, including peer review and other student-centered activities. Prereq: consent of the director of ELP. (3)

#### ELP 110 Composition for International Undergraduate Students

Transitions undergraduate non-native speakers from the English Language Program sequence into the freshman composition program. Introduces students to fundamental skills necessary to write a research paper and continues the process approach introduced in ELP 73-83-93. Prereq: consent of the director of ELP. (3)



**ELP 111 Composition for International Graduate Students**  
Further develops and refines composition skills acquired in ELP 73-83-93. Takes an individualized approach to writing, focusing on the needs of non-native speakers as they undertake graduate-level degree work in their academic units. Prereq: consent of the director of ELP. (3)

**ELP 121 English Support for International Graduate Students in Music**  
Individualized approach to reading, writing, and research including critical reading, analysis and synthesis of information, techniques of summarization, exposition, and documentation. Strategies to identify, research, and incorporate the cultural references that appear in the context of assignments; emphasis on the style and grammar of academic writing. Prereq: graduate standing in music and ELP 111. (2)

## Ensemble

(See Music: Ensemble)

## Environmental Science

**ENVS 201 Hazardous Materials Management**  
The generation, handling, transport, and disposal of hazardous waste. History, management, regulatory context, toxicology, treatment, monitoring, recycling and disposal, remediation of contaminated sites. Prereq: Chem 101 or consent of instructor. (3)

**ENVS 202 Pollution Control**  
The scientific, social, and regulatory context of pollution control. Sources of air, land, and water contaminants; environmental and health consequences of pollution; regulatory laws and agencies; technical approaches to reducing and controlling emissions. Prereq: Chem 101 or consent of instructor. (3)

**ENVS 314 Introduction to Geographic Information Systems (GIS)**  
Computer collection, use, and display of geographic data. GIS applications, input and manipulation of data, conversion of data into usable databases, data analysis, and generation of map output and reports. Prereq: Cst

150 or computing experience and consent of instructor. (3)

**ENVS 316 Advanced Geographic Information Systems**  
Further development of hands-on use of standard GIS software; overview of ARCGIS software; GIS implementation; acquiring, converting, and integrating data; creating GIS layers (themes) in multiple formats; editing and correcting GIS layers; processes to modify data and conduct geographical analyses; customization of applications; presentation of results from a completed GIS project. See Geog 316. Prereq: Envs 314. (3)

**ENVS 330 Wetlands Delineation**  
Scientific, technical, legal, and public policy issues involved in defining, delineating, regulating, conserving, and restoring wetlands. Preliminary assessment of a natural or disturbed area's wetland status, including biology, hydrology, and soils. Potential issues involved in developing, conserving, or restoring the area. This course alone will not qualify students as professional wetlands delineators. See Biol 330. Prereq: Biol 112 or 201 and Chem 100 or 101. (3)

**ENVS 332 Ecology of the Tall Grass Prairie**  
Offered Summer, 2004. Prairies have been described as the most endangered ecosystems in North America. This is a field-oriented introduction to prairies, including exploration of unique ecological processes found at the population, community, and ecosystem levels. Special attention will be given to prairie plants, insects, soils, endangered species, and prairie restoration. Prereq: Biol 112 or 201. (3)

**ENVS 333 National Parks Field Experience**  
This field course will integrate the role of public policy, government politics, interest groups, and the media in the management of the national park's natural resources, along with the natural science concepts underlying environmental management decisions. Topics include management of fires, sustainable habitat development, wolf reintroductions, bison and elk migrations, land use buffer zones, economic development, and tourism. Prereq: one course each in natural science and social science and consent of instructor. (2)

**ENVS 335 Great Lakes**

Ecology, chemistry, and environmental policy issues surrounding the Great Lakes, with emphasis on Lake Michigan. Lecture, field trips and guest lecturers. Recommended for science and education majors. Prereq: Chem 100 or 101; Biol 112, 201, or equivalent. (3)

**ENVS 380 Geographic Information Systems Capstone Project**

Students work on an independent project in a field of interest with faculty supervision and guidance. Prereq: Envs 316 or instructor's permission. (3)

**ENVS 391 Environmental Science Internship**

Off-campus work experience with an approved government, nonprofit, or private organization. May include laboratory experience, field work, or other practical activities. Guidelines for internships are available from the school. Prereq: major standing in environmental science and approval of the school director. (3-6)

**ENVS 395 Independent Study in Environmental Science**

Prereq: consent of instructor and school director. (1-3)

## External Studies Program

Descriptions of the following external courses may be found under the appropriate departments in the catalog: Acct 201, 210, 211, 313; Badm 304; Bgs 201, 302, 390, 391, 392, 399; Cst 150, 213, 246, 254, 290, 313, 362; Econ 101, 102, 210; Eng 101, 102, 219; Fin 301; Geog 101, 102, 305; Hist 240; Hosm 201, 230, 275, 304, 311, 327, 333, 350; Hrm 311; Infs 330; Mgmt 352, 358, 370, 398; Psys 203, 347.

**BGS 210 Men/Women Relationships: War or Peace?**

The differences between women and men, particularly the psychological and biological differences and the differences in moral decision making. Myths about hormonal, genetic, and brain differences; differences in abilities such as mathematical and verbal ability; personality differences in emotionality, nurturance, aggression, dependence; differences in the ways men and women view themselves and their places in the world. (1)

**BGS 212 Communication Skills**

The importance of interpersonal communication. Various facets of the communication process; subtleties of creating a communication climate. Barriers to communication and how to overcome them. Managerial communication; analysis of leadership styles and communication skills necessary for the effective management of others. (1)

**BGS 213 Study Skills**

Basic skills necessary for academic success. Reading, note-taking, exam-taking, critical evaluation, and analysis. Practice in concentration and thinking skills. (1)

**BGS 214 Elements of Research**

Steps in research projects from invention of a topic to completion of the final paper. The importance of information and its successful manipulation. Emphasis on mechanics. (1)

**BGS 215 Images of Beauty**

The "beauty myth" which still shapes women's lives and society in general. Manifestations of the cult of beauty include fashion, pornography, dieting, cosmetics, and cosmetic surgery. Methods and issues in women's studies, particularly women and work. (1)

**BGS 216 Writing: A Communication Process**

The purpose and process of writing. Writing theories and techniques that apply to all writing tasks. Focus on subject, audience, and purpose. Prewriting, writing, revising, rewriting, and proofreading; experimentation with various techniques. (1)

**BGS 217 The Storyteller's Art**

Storytelling from earliest oral myths to current experiments in literature and film. Elements of story; historical survey; discussion and analysis of the texts. (1)

**BGS 218 Mythology**

The study of mythology using Greek myth and one other body of myth. Definition of myth; common types of myth; how myths speak to us; what they reveal about the people who create them. (1)

**BGS 220 Argument and Persuasion**

Analytical skills necessary for constructing and critically evaluating arguments. Emphasis on the application of reasoning skills across the curriculum. (1)

**BGS 221 Quantitative Methods**

Basic statistical literacy. Students are introduced to statistical concepts and learn to evaluate and analyze the statistics used in a variety of academic and workplace settings. (1)

**BGS 257 Nutrition for Everyday Life**

Human nutrition; effects of nutrition on health and well-being. Food choices, advances in nutrition, and new research on diet. (1)

**BGS 300 Research and Portfolio Development**

Designed for students who seek credit for noncollegiate learning. Students develop a portfolio of prior learning through documentation, organization, and presentation of learning experiences. (3)

**BGS 301 The Advanced Pro-Seminar**

Transition from lower-level college studies to advanced studies. Skills in analytical and conceptual thinking, rhetoric, and interpretation appropriate to more complex and independent academic research. (3)

**BGS 330 History and Literature of the Holocaust**

The first module in this two-part course provides a brief history and overview of literature of the Holocaust in Europe from 1933 to 1945 and discussion of three major novels on this theme. The second module is a comprehensive introduction to the causes, events, and implications of the destruction of European Jews. (3)

**BGS 331 Images of Woman**

Module one focuses on the “beauty myth” which shapes women’s lives and society in general. Manifestations of the cult of beauty in fashion, pornography, dieting, cosmetics, and cosmetic surgery. Module two covers popular women’s magazines, women in TV, and women in the movies. Module three looks at the Senate hearings involving Clarence Thomas and Anita Hill as a case study in the power of images and how they can be changed by the media and the public will. (3)

**BGS 351 Scientific Methodology and Criticism**

Scientific methods and critical thinking about scientific topics. Assessment of evidence presented by the media and the claims made by various authorities. No scientific background is required. (1)

**BGS 352 The Structure of Matter**

A study of the various types of energy and the laws that describe the behavior of energy; the nature of atoms; protons, electrons, and neutrons; the nature of all the substances that make up the world. (1)

**BGS 353 Genetics: The Language of Life**

The cell, the basic unit of living things, and the two processes by which cells divide to form new cells. Mendel’s laws of heredity; human heredity; dominance of characteristics; prediction of characteristics of children; genetic diseases; characteristics controlled by the sex chromosomes; racial variations. The composition of chromosomes and the mechanism of chromosome duplication and mutation. (1)

**BGS 355 Science and Society**

The interaction between science and society; social, economic, and legal interactions with science; examples of recent and future problem areas. Nonscience majors may become more effective in dealing with the complex technological society in which we live through the study of science. (1)

**BGS 356 Earthquakes, Continental Drift, and Plate Tectonics**

Plate tectonics and continental drift; surface features of the earth; rock magnetism and ocean floor exploration; sea-floor spreading; the reconstruction of the continents; the causes of plate tectonics; applications of the theory to environmental geology and earthquake prediction. (1)

**BGS 357 Endangered Species**

Factors involved in global extinction; the potentially catastrophic effects of the loss of species for the human population; insights into the ongoing search for solutions. (1)

**BGS 358 Evolutionary Principles**

Evolutionary theory is the most unifying concept in the biological sciences, with far-reaching implications for our understanding of animal and human behavior, sexuality, and form. Charles Darwin’s theory of evolution and Darwin’s lines of evidence. (1)

**BGS 359 Animal Behavior**

Animal behaviors from the perspective of evolutionary history. The differences between instinct and learning; sexual behavior; commu-

nication; cooperation; and the role of behavior in conservation management of endangered species. (1)

**BGS 369 Oral History**

The uses of oral history in an historical context. (3)

**BGS 369 The Courtroom in Film and Theater**  
Conflicts between written law and individual morality or between differing concepts of morality in historical and contemporary examples of courtroom drama. (1)

**BGS 370 Introduction to the Humanities**  
Culture and the arts as an expression of individual artistic vision or an expression of a society's values. Cultural expression that is produced anonymously within a culture; cultural expression that is supported by patrons or government; and cultural expression that is supported fully by the individual consumer. (1)

**BGS 371 Television: The Issues and the Art**  
Who controls TV? The role of government, the television industry, television creators, and the audience. The power of the ratings; the objectivity of TV news; educational television; African Americans and women on and in television; and children's TV. History of the medium, and the art of television; form and content of news programs, entertainment shows, and commercials. (1)

**BGS 372 Aesthetics: Philosophies of Art**  
Ideas about art from the Classical period to the present. The roles of the artist, the audience, and the critic. (1)

**BGS 373 The Comic Spirit**  
Several traditions of humor in the arts. Theories of Susanne Langer and Arthur Koestler; nonsense and puns; exaggerative humor such as parody, satire, lampoon, burlesque, and "black humor"; and situation comedy. Prereq: access to a television set. (1)

**BGS 375 The Holocaust as Literature**  
Literature of the Holocaust in Europe from 1933 to 1945; discussions of three major novels on this theme. (1)

**BGS 376 Art and Communication**  
The communicative function of art; how we determine the meaning of signs, codes, and texts; the role of different media; the relation

of form and content; and the question of individual style. (1)

**BGS 378 Images and Culture**

Artworks in Western culture with a focus on how images are rooted in time and place. Students will learn how to "read" paintings, use artists' biographies to examine paintings, and understand how a particular culture and its images are interwoven. (1)

**BGS 379 Science Fiction: An Interdisciplinary Humanities Module**

The reasons for science fiction's popularity and why it seems challenging to many readers; guidelines on how to read this unique form of literature. (1)

**BGS 381 Technology and Social Values**

Urgent questions of values raised by our technology, such as how computer networks affect our privacy, how automobiles conflict with environmental concerns, how we reconcile the benefits of nuclear power with its risks, how the emerging technologies of reproduction challenge our traditional ways of thinking, and how medical technologies have complicated the process of dying. (1)

**BGS 382 Women and Work: The Continuing Revolution**

The revolution in women's work in the US. The history of working women; the effect of race and class on employment patterns; housework, clerical work, and the professions; and current issues concerning comparable worth, government family policy, and the media. (1)

**BGS 383 Health, Illness, and Society**

Human health in its social context; impact of illness on human societies at different stages of history; connections between disease and socioeconomic, political, religious, and psychological phenomena; impact of the biomedical and public health revolution of the past century; perspectives of history, sociology, and social psychology. (1)

**BGS 385 History of Chicago 1920 to Present**  
Emergence of Chicago as the capital of gangland corruption in the 1920s. The rise and decline of the Klan; ethnic conflicts; African-American influx from the South. Depression-era federal aid. The growth of the Kelly-Nash machine. The flourishing defense

industry of the war years; the rise to power of Richard J. Daley; racial and antiwar conflicts of the 1960s. Decline of the traditional Democratic machine; rise of Harold Washington; political turmoil that followed the death of Chicago's first Black mayor. Rise of Richard M. Daley; comparison of his administration to that of both his father and Harold Washington. (1)

**BGS 386 Social Perspectives on American Industry**  
Development of US industry from the Civil War to the present in the context of social, cultural, and ethical issues; a framework for understanding social limitations on business; important historical and contemporary examples of the relationship between business and society. (1)

**BGS 396 Advanced Seminar in the Social Sciences**  
Major ideas and methods used by practitioners in such areas as history, sociology, and economics. Content individualized to suit student interest. Topics may include technology and values, women and work, Chicago history, and humanity against disease. Prereq: basic knowledge of the social sciences; Eng 101, 102. (3)

**BGS 397 Advanced Seminar in the Natural Sciences**  
Topics in the field of natural science, such as principles of heredity; scientific revolutions; earthquakes, continental drift, and plate tectonics; and Darwin and natural selection. Three advanced modules from those offered for Bgs 391. Prereq: basic knowledge of physical and biological sciences; Eng 101, 102. (3)

**BGS 398 Advanced Seminar in the Humanities**  
The student's prior learning is focused and expanded by concentrating on selected seminar topics, such as relationships of men and women, and popular culture. Three advanced modules selected from those offered for Bgs 392 with the permission of the instructor. Prereq: prior credit in the humanities; Eng 101, 102. (3)

**CST 123 Introduction to Programming Techniques with Qbasic**  
Introduction to computer program design, coding, debugging, documenting, and testing using Qbasic. (3)

**GEOG 309 Political Geography**  
Relationship between geography and political science; concepts of nation and state; main geographical elements of modern states such as territory, boundaries, capital city, population; political pattern of the contemporary world from a geographical viewpoint. (3)

**HIST 307-95A Chicago History to 1871**  
Importance of geography and technology to the growth of Chicago from an outpost fort to the second largest urban center in the US during a time span of 75 years. Development of water and rail transportation and the accompanying establishment of the trading, processing, manufacturing, and retail enterprises. The city's ethnically diverse pre-Fort Dearborn beginnings through its rebirth after the Great Fire of 1871. Available through External Studies Program in print-based and Internet formats. (1)

**HIST 307-95B Chicago History, 1871 to 1919**  
The growth of ethnic politics in Chicago. The struggle between Anglo-Americans and the Germans, Irish, Swedes, and Bohemians. Effects of this struggle on political campaigns, Prohibition, schools, and labor. Expansion of the labor movement and its setbacks in the Haymarket tragedy and the Pullman strike. The settlement house movement; the coming of Prohibition; the influx of African-American voters in the 20th century. (1)

**HIST 307-95C Chicago History, 1920 to Present**  
Emergence of Chicago as the capital of gangland corruption in the 1920s. The rise and decline of the Klan; African-American influx from the South. Depression-era federal aid. The growth of the Kelly-Nash machine. The flourishing defense industry of the war years; the rise to power of Richard J. Daley; racial and antiwar conflicts of the 1960s. Decline of the traditional Democratic machine; rise of Harold Washington; political turmoil that followed the death of Chicago's first Black mayor. Rise of Richard M. Daley; comparison of his administration to that of both his father and Harold Washington. (1)

**HIST 326-95 Social Perspectives on US History**  
This course consists of three modules. Descriptions are listed under HIST 326-95A, -95B, and -95C. (3)

HIST 326-95A Technology and Social Values  
Urgent questions of values raised by our technology, such as how computer networks affect our privacy, how automobiles conflict with environmental concerns, how we reconcile the benefits of nuclear power with its risks, how the emerging technologies of reproduction challenge our traditional ways of thinking, and how medical technologies have complicated the process of dying. (1)

HIST 326-95B Social History: Health, Illness, and Society  
Human health in its social context; impact of illness on human societies at various stages of history; connections between disease and socioeconomic, political, religious, and psychological phenomena; impact of the biomedical and public health revolution of the past century; perspectives of history, sociology, and social psychology. (1)

HIST 326-95C Women and Work: The Continuing Revolution  
The revolution in women's work in the US. The history of working women; the effect of race and class on employment patterns; housework, clerical work, and the professions; and current issues. (1)

HIST 327-95A American Labor History to 1860  
Slavery, indentured servitude, and free labor in colonial America and in the early national period up to the Civil War. English labor law and its role in the development of the indenture system and laws to regulate free labor in early America. Efforts of the American colonists to invent rules for a slave system; varying influences which led to regional differences in this institution. (1)

HIST 327-95B American Labor History, 1860 to 1920  
Structural differences among the Knights of Labor, AFL, and IWW; limitations in organizing imposed by each structure. The influence of mass immigration on unionization; options beside unionization that were proposed to improve the lives of workers; relationship between technological improvement and union growth or decline; government's changing role in industrial disputes between 1865 and 1920. (1)

HIST 327-95C American Labor History, 1920 to

Present  
Effects of the antiunion drive of the 1920s, the depression of the 1930s, and World War II on the labor movement and working conditions in general. Founding of the CIO and its structural and philosophical differences with the AFL; the basis for their eventual reunion. Increased role of government in labor relations; current trends and problems of the labor movement. (1)

HIST 348-95 Introduction to the Holocaust, 1933 to 1945  
Causes, events, and implications of the destruction of the European Jews. (1)

POS 309 Political Geography  
Relationship between geography and political science; concepts of nation and state; main geographical elements of modern states such as territory, boundaries, capital city, population; political pattern of the contemporary world from a geographical viewpoint. (3)

PSYC 204-95 Relaxation Dynamics  
The nine approaches to self-relaxation currently used by most health professionals. Isometric squeeze/progressive relaxation, yoga form stretching, relaxed breathing, somatic focusing/autogenic exercises, thematic imagery, contemplation, and meditation. Relaxation Dynamics, a major relaxation system, teaches how to put these techniques to work for stress management as well as for increasing performance at work, school, and athletics. (1)

PSYC 340 Business Psychology  
Understanding the human resource approach to organizations. The growth and development of people both for personal fulfillment and for increased participation in building and operating an organization. The causes of individual and group behavior; individual behavior related to the organization's environment. (3)

PSYC 347 Stress and Health  
The impact of stress on physical and psychological health. How the handling of life events can trigger bodily symptoms and the subjective experience of stress; various sources of stress; current approaches to coping with stress. (3)

## Finance

### FIN 300 Risk Management, Insurance, and Financial Services

Homeowners and automobile insurance, life insurance, healthcare financing, retirement planning, wealth management, and estate planning. Interaction between the insurance industry and other sectors of the financial services industry. (3)

### FIN 301 Money and Banking

The nature of money and its role in the economy. The supply of and demand for money including the parts played by banks and the central bank. Theories of the effects of central bank policy including the quantity theory, Keynesian theories, and rational expectations. Introduction to the theory of interest. Also available through External Studies Program. Prereq: Econ 102, Eng 102, and Math 116. (3)

### FIN 311 Business Finance

Time value of money, capital budgeting, methods of external finance, working capital management, financial statement analysis, cash budgeting, and other finance topics. Prereq: Acct 210 or 101, Econ 101, and Math 116 or 121. (3)

### FIN 321 Investments

Media and markets, portfolio theory, valuation and selection of securities to meet alternative investment objectives. Prereq: Fin 311 and Econ 234. (3)

### FIN 330 Elements of Financial Planning

Individual financial planning from the perspective of the planner and the individual. An introductory course for those interested in exploring the broad area of financial planning. Topics include the planning process, investments, insurance, estate planning, and retirement planning. Prereq: Fin 311. (3)

### FIN 352 Financial Statement Analysis

Use of financial statements in interpreting financial condition for purposes of internal control or external evaluation. Acct 304 strongly recommended. Prereq: Fin 311. (3)

### FIN 354 International Financial Analysis

Relationship between international forces and institutions and foreign investment decisions. Emphasis on international adaptations

in working capital management, foreign exchange risk management, and international banking. Prereq: Fin 301 and 311. (3)

FIN 383 Financial Markets and Institutions  
Financial intermediaries and markets from the perspective of the functioning of the financial system. Theories explaining the existence of intermediaries. Regulation of intermediaries and markets. Prereq: Fin 301 and 311. (3)

### FIN 385 Business Problems in Finance

Cases and problems involving application of financial theory to real world situations. Prereq: Fin 301, 311, and 321; or Fin 352 and Econ 234. (3)

### FIN 387 Derivative Securities

Futures, forward contracts, options, and swaps. The markets for derivatives, pricing theories for derivatives and other securities with embedded derivatives, and the use of derivatives to hedge risks. The pricing of ordinary securities using derivatives. Prereq: Fin 321. (3)

### FIN 395 Independent Study in Finance

Students work under direction of finance department faculty member on projects selected by student and approved by supervising faculty member, school director, and college dean. (1-3)

### FIN 399 Topics in Finance

Topics vary. Check Class Schedule for specific topics and prerequisites. (3)

## Financial Services

### FNSV 300 Risk Management, Insurance, and Financial Services

Homeowners and automobile insurance, life insurance, health care financing, retirement planning, wealth management, and estate planning. Interaction between the insurance industry and the other sectors of the financial services industry. (3)

### FNSV 305 Commercial Property and Liability Insurance

Corporate uses and needs for insurance. Options designed to cover various types of property and liability exposures. Contract coverages, their limitations, and interactions. (3)

**FNSV 310 Real Estate and Financial Services**  
Various facets of commercial real estate including factors affecting value, market, and real estate management. Financing of real estate and the various alternatives. Focus on commercial/industrial real estate issues—not on personal/individual real estate investment. (3)

**FNSV 311 Insurance Company Operations**  
Financial, accounting, and management principles of the insurance industry. Interactions between selling new business and maintaining adequate levels of surplus. How an insurance company operates; how various decisions impact the financial position. (3)

**FNSV 320 Banking and Financial Services**  
Survey of banking and investment industries. Topics include the history of banking, banking regulation, bank operations, and the interaction of banks in the financial services world. (3)

**FNSV 330 Elements of Financial Planning**  
Individual financial planning from the perspective of the planner and the individual. An introductory course for those interested in exploring the broad area of financial planning. Topics include the planning process, investments, insurance, estate planning, and retirement planning. Prereq: Fin 311. (3)

**FNSV 344 Financial Services Practicum I**  
Through a supervised internship program, students receive credit for meaningful interactions with the financial services industry. Prereq: permission of the program chair. (3)

**FNSV 345 Financial Services Practicum II**  
A second supervised internship in the financial services industry. Prereq: permission of the program chair. (3)

**FNSV 350 Risk Management**  
The risk management process and its applications. Traditional and newer manifestations of risk management and applications in corporate and public entities. (3)

**FNSV 357 Life Insurance**  
Life insurance industry from the perspective of the products that are offered, internal company operations, rate making, and customer needs. How the industry works; what goes into the design of its products. (3)

**FNSV 360 Employee Benefits**  
Employee benefits from the perspective of the employer and the benefit provider. The entire process from design to implementation of employee benefit programs. Designed for students in risk management, insurance, management, and human resources. (3)

**FNSV 365 Topics in Financial Services**  
Two or three of the most recent topics of interest to the industry. Topics change over time along with markets and industrial concerns. Students explore topics in depth and interact with professionals from the field. (3)

## First-Year Experience

**FYS 100 RU Ready: Navigating University Life**  
An eight-week introduction to resources available to Roosevelt students and skills for success in college work and life. Required for new, full-time undergraduates who enter the University under the age of 24 with fewer than 15 hours of transfer credit. (0)

## French

**FREN 101 Elementary French**  
Mastery of basic listening, speaking, reading, and writing skills. For beginners. (3)

**FREN 102 Elementary French**  
Continuation of Fren 101. Prereq: Fren 101 or equivalent. (3)

**FREN 201 Intermediate French**  
Review of grammar essentials and continuing practice of basic listening, speaking, reading, and writing skills. Taught in French. Prereq: Fren 102 or equivalent. (3)

**FREN 202 Intermediate French**  
Continuation of Fren 201. Prereq: Fren 201 or equivalent. (3)

## Geography

**GEOG 101 Physical Geography I**  
Earth materials, structure, and landforms; interaction between human beings and landscapes in the context of natural resources and human activity. (3)



**GEOG 102 Physical Geography II**  
Earth and sun relationships, weather, climate, soils, and natural vegetation; interaction between human beings and the atmosphere and hydrosphere. (3)

**GEOG 305 Urban Geography**  
Principles of location and distribution of urban centers; urban land use; geographical aspects of city planning. Available through External Studies Program. Prereq: Econ 101 or consent of instructor. (3)

**GEOG 314 Introduction to Geographic Information Systems (GIS)**  
Computer collection, use, and display of geographic data. GIS applications, input and manipulation of data, conversion of data into usable databases, data analysis, and generation of map output and reports. Prereq: Cst 150 or computing experience and consent of instructor. (3)

**GEOG 316 Advanced Geographic Information Systems**  
Further development of hands-on use of standard GIS software; overview of ARCGIS software; GIS implementation; acquiring, converting, and integrating data; creating GIS layers (themes) in multiple formats; editing and correcting GIS layers; processes to modify data and conduct geographical analyses; customization of applications; presentation of results from a completed GIS project. See Envs 316. Prereq: Geog 314. (3)

**GEOG 321 Climatology**  
Composition and behavior of air masses in the production of weather and climate; world distribution of different kinds of climates and their characteristics. Prereq: Geog 102 or 104 or consent of instructor. (3)

**GEOG 344 World Resource Management and Conservation**  
Distribution, use, and interrelationship of natural resources in various world regions; conservation techniques of natural resources; problems of public policy related to their efficient management. Prereq: Econ 101 or consent of instructor. (3)

**GEOG 350 Problems of the Urban Environment**  
Urban socioeconomic problems in relationship to environmental considerations such as

congestion, air and noise pollution, and solid wastes; emphasis on community involvement. (3)

**GEOG 380 Geographic Information Systems Capstone Project**  
Students work on an independent project in a field of interest with faculty supervision and guidance. Prereq: Geog 316 or instructor's consent. (3)

**GEOG 395 Readings and Special Problems in Geography**  
Independent study with a geography instructor. Prereq: consent of instructor and school director. (1-3)

## Geology

**GEOL 205 Environmental Geology**  
The geological context of environmental issues. Climatology, hydrology, soils, and sedimentary formations; the movement of soil and water contaminants. The consequences of coal and oil extraction; acid rain; global warming; soil and water conservation; and hydrologic, atmospheric, and nutrient cycles. Prereq: Chem 101 or consent of instructor. (4)

## German

**GER 101 Elementary German**  
Mastery of basic language skills of listening, speaking, reading, and writing. (3)

**GER 102 Elementary German**  
Continuation of Ger 101. Prereq: Ger 101 or equivalent. (3)

**GER 201 Intermediate German**  
Review of essentials of grammar and continuing practice of basic skills of listening, speaking, reading, and writing. Taught in German. Offered on demand; consult Class Schedule for availability. Prereq: Ger 102 or equivalent. (3)

**GER 202 Intermediate German**  
Continuation of Ger 201. Prereq: Ger 201 or equivalent. (3)

## History

### HIST 106 The United States to 1865

Survey of main currents in development of American institutions and values through the Civil War. (3)

### HIST 107 The United States Since 1865

Survey of main currents in development of American institutions and values from Civil War to present. (3)

### HIST 111 The World to 1500

World history from the beginnings of civilizations to the age of discovery, covering several major regions of the world: Southwest Asia, East and South Asia, Europe, Africa, and the Americas. Comparison of the civilizations in these regions and contacts between them. Emphasis on social organization, ideas, technologies, and culture. (3)

### HIST 112 The World Since 1500

Major themes and topics in world history from the age of discovery to the present. Comparison of the civilizations of Southwest Asia, East and South Asia, Europe, Africa, and the Americas. Emphasis on social organization, ideas, technologies, and culture. (3)

### HIST 207 American Economic Development Since 1945

Prereq: Econ 101. (3)

### HIST 228 African-American History, 1619 to 1877

Evolution of slavery as a social and economic institution and role of free African Americans in American society up to and during Reconstruction. See Afs 228. Prereq: sophomore standing. (3)

### HIST 229 African-American History, 1877 to 1960

Survey of the African-American experience in America with attention to culture and participation in widespread social and political movements. See Afs 229. Prereq: sophomore standing. (3)

### HIST 232 African-American History, 1960 to Present

Examination of the civil rights, Black power, and economic empowerment movements. See Afs 232. Prereq: sophomore standing. (3)

### HIST 240 Introduction to African History, Culture, and Traditions

Africa from the development of human civilization; migration; formation of kingdoms and territorial states; spread of Islam and Christianity; and intracontinental and intercontinental trading networks. See Afs 240. Prereq: sophomore standing. (3)

HIST 241 Africa Under European Domination Origin, nature, and enduring legacies of European colonial domination. Exploration of colonization theories and African responses to colonial domination. See Afs 241. Prereq: sophomore standing. (3)

HIST 254 Social Justice: History and Issues History of struggles for social justice in the Western world. Ideas, social, economic, and political movements; contemporary issues; emphasis on urban areas. May be used to fulfill a signature course. See Libs 254. Prereq: UWR. (3)

HIST 260 Ethnicity in North American Cities Temporal and spatial survey of North American cultural borders. Interdisciplinary perspective on ethnicity and national identity in North American cities. May be used to fulfill a signature course. See Libs/Pos 260. Prereq: UWR. (3)

### HIST 280/281/282 Topics in Historiography and Methodology

Introduction to historiography and methodology of a specific topic; the nature of interpretation and various schools of thought on the topic. Experience in reading and interpreting primary sources, such as written documents, photographs, oral history, and quantitative data. Prereq: UWR. (3)

### HIST 300 The Ancient World

The classical societies of the ancient Mediterranean world; the Greek city states; the rise of Rome; and the nature and decline of the Roman Empire. Prereq: Hist 111. (3)

HIST 302 The Renaissance and the Reformation Society, economics, ideas, and politics in Western Europe from mid-13th century to 17th-century religious wars. Prereq: Hist 111. (3)

HIST 303 The Immigrant in the History of the

**United States**

Examination of changing trends in immigration, assimilation efforts, and immigration politics and policies. Prereq: Hist 106 or 107. (3)

**HIST 304 Camelot to Watergate: United States, 1960 to 1974**

The policies and culture of the US from 1960 through the resignation of President Nixon. Prereq: Hist 107. (3)

**HIST 305 Modern Imperialism**

The overseas expansion of Europe and the US in the 19th and early 20th centuries, including their conquest, administration, cultural and technological transformation, and economic exploitation of colonies. Anticolonial movement, wars of national liberation, and decolonization after World War II. Prereq: Hist 112. (3)

**HIST 306 The World Since 1945**

Main currents in development of global institutions and values from 1945 to present. Prereq: Hist 107 or 112. (3)

**HIST 307 History of Metropolitan Chicago**

Growth of the city and suburbs; land use and economy; changing ethnic and social components; politics and culture. Prereq: Hist 106 or 107. (3)

**HIST 309 19th-Century Europe**

The long European peace from Waterloo to the outbreak of World War I; Industrial Revolution; unification of Germany and Italy; rise of liberalism, nationalism, and socialism; tensions and rivalries of the turn of the century; and expansion of European colonial empires. Prereq: Hist 112. (3)

**HIST 310 Europe From Absolutism to Revolution, 1600 to 1789**

Absolutism and the Scientific Revolution; social and cultural trends; and the growth of European overseas empires. Prereq: Hist 112. (3)

**HIST 311 The Society and Culture of Medieval Europe**

Social, cultural, and political institutions in Western Europe from later Roman Empire to mid-13th century. Prereq: Hist 111. (3)

**HIST 315 Latin America to Independence**

Central and South American Indian societies.

Socioeconomic, political, religious, cultural, and racial history of colonial societies through wars of independence. Prereq: Hist 111 or 112. (3)

**HIST 316 Latin America Since Independence**

Socioeconomic structures, law and politics, ideologies, growth and distribution of power and resources, religious culture, reform and revolution from independence to present. See Pos 316. Prereq: Hist 112 or Pos 203. (3)

**HIST 317 The French Revolution and Napoleon**

Examination of the collapse of the Old Regime and the course of revolution; Napoleonic era; and impact of revolution on Europe and World. Prereq: Hist 112. (3)

**HIST 320 Major Western Revolutions of Modern History**

Causes, development, and impact of major revolutions and revolutionary ideologies in the Western world, beginning with Puritan revolution in England. Prereq: Hist 112. (3)

**HIST 321 20th-Century Europe**

Political and social history of Europe in the 20th century. Examination of the two world wars; fascism and communism; the decline and fall of colonial empires; the Cold War; recovery and prosperity after World War II; European unification; the collapse of the Soviet Union; and the Eastern European revolutions. Prereq: Hist 112. (3)

**HIST 323 The Urban Vision: Cities and Suburbs in American Thought and History**

Intellectual and social history of US cities from colonial small town to 21st-century megalopolis. Focus on environment, politics, immigration, race and ethnicity, work, family life, reform, mass culture, and suburbanization. Prereq: Hist 106 or 107. (3)

**HIST 325 Diplomatic History of the United States**

Development of American foreign relations from American Revolution to the present. Topics include manifest destiny and expansionism; imperialism of the 1890s; US rise to global power in the 20th century; and the end of the Cold War. Emphasis on diplomacy in the war on terror and contemporary foreign policy. See Pos 325. Prereq: Hist 106 or 107 or Pos 201. (3)

HIST 326 Topics in American Social History  
Topics include gender roles; gender and labor; childhood in America, and the West in American history. Prereq: see Class Schedule. (3)

HIST 327 Working Men and Working Women in American History  
Development of labor organizations from 1840 to present and changing lifestyle of the laboring population. Prereq: Hist 106 or 107. (3)

HIST 330 Colonial and Revolutionary America  
Evolution of colonial American social, economic, and political institutions. Prereq: Hist 106. (3)

HIST 331 Constitutional History of the United States  
Major topics in American Constitutional development from colonial beginnings through the 20th century. Prereq: Hist 106 or 107. (3)

HIST 333 The American Civil War and Reconstruction  
The causes of the Civil War; the interrelationship between government and partisan politics; the advent of central state authority; the role of slavery; and the controversies surrounding Reconstruction. Prereq: Hist 106 or 107. (3)

HIST 335 History of Nationalism  
Examination of content and issues surrounding one of the most important currents of modern history; basic historical methodologies. Prereq: Hist 112. (3)

HIST 337 History of Reform Movements in the United States  
Analysis of reform movements, including abolitionism, populism, progressivism, New Deal, the 1960s, and recent reform movements. Prereq: Hist 106 or 107. (3)

HIST 341 Topics in European History  
Topics may include class formations and divisions, intellectual currents, nationalism, unification, and revolutionary upheavals. Prereq: see Class Schedule. (3)

HIST 342 Topics in World History  
Asian, African, and Latin American studies; topics may include global linkages. Prereq: see Class Schedule. (3)

HIST 346 History of World War II  
Causes, campaigns, home fronts, and diplomacy of the war; effects on human affairs worldwide. Prereq: Hist 107 or 112. (3)

HIST 349 North American Slavery  
Study of Atlantic slavery with emphases on slavery in Africa, European labor needs in the New World, emergence of chattel slavery in the US, and character of a transformed African population. Prereq: Hist 106 or 228. (3)

HIST 351 The United States in the Early National Period, 1789 to 1829  
Emergence of a new government under the Constitution of 1787; appearance of political parties around Hamilton, Jefferson, and Madison; constitutional issues; and emergence of the market revolution. Prereq: Hist 106. (3)

HIST 352 The Making of Modern America, 1880 to 1929  
Populism, the Progressive Movement, immigration, rise of Jim Crow, nationalism, and emergence of the US as a world power. Prereq: Hist 107. (3)

HIST 353 America Transformed, 1929 to 1945  
The tumultuous years from the Great Depression through World War II; emphasis on social, political, and cultural history. Prereq: Hist 107. (3)

HIST 356 Nazi Germany  
Political, social, intellectual, and economic preconditions for rise of Third Reich; survey of institutions, ideology, and techniques of totalitarian rule. Prereq: Hist 112. (3)

HIST 357 The United States from 1945 to Present  
Major issues that have shaped the US in recent decades emphasizing both domestic social and political history and foreign policy. Prereq: Hist 107. (3)

HIST 365 Black Chicago's History and Culture, 1770 to 1960  
The role and impact of the African-American community on the culture, society, politics, and economy of the city of Chicago from DuSable to 1960. See Afs 365. Prereq: Hist 107 or 228 or 229. (3)

HIST 366 The Holocaust in Historical and

**Philosophical Perspective**

The background, causes, events, impact, and implications of the destruction of the Jews in Europe. Prereq: Hist 112. (3)

**HIST 367 Love, Sex, and Marriage in the Western World**

Development of attitudes and behavior concerning love, sex, and marriage and their interrelationships with broader social, cultural, and political trends in Western civilization. Prereq: Hist 111 or 112. (3)

**HIST 368 Antebellum America, 1828 to 1860**

Political re-formation from the election of Andrew Jackson to the election of Lincoln; Jacksonian Democracy; importance of slave labor and wage labor as cores of the market economy; religious-based reform; countervailing influences of nationalism and sectionalism. Prereq: Hist 106 or 228. (3)

**HIST 370 History of Africa After 1500**

The influence of European and Asian contacts on the African continent; the transatlantic and Middle Eastern slave trades; state formation; resistance to the rise of European colonial domination. See Afs 370. Prereq: Hist 112 or 240. (3)

**HIST 371 Modern and Contemporary Africa**

The rise of nationalism; end of colonialism; rise of neo-colonialism; Cold War influences; managing the problems of independence. See Afs 371. Prereq: Hist 112 or 240. (3)

**HIST 372 History of American Family Life**

Child-rearing practices; role of women in family structure; impact of technological change on family life. Prereq: Hist 106 or 107. (3)

**HIST 377 Environmental History**

The impact of human activities on the natural environment. Agriculture, irrigation, fishing, industrialization, and population growth and their effects on the lands and waters of North America and the tropics from 1492 to the present. Prereq: Hist 111 or 112. (3)

**HIST 383 History and Politics of Women in the United States**

Women in the US from colonial times to the present. Emphasis on the women's rights movement and feminism, work, family, health, and education. Issues of class, race, ethnicity.

Prereq: Hist 106 or 107. (3)

**HIST 391 History of Mexico**

Social, economic, political and cultural development of Mexican society from its pre-Hispanic roots through Spanish conquest; independence movements; the Revolution; evolution into modern Mexican society. Prereq: Hist 111 or 112. (3)

## Hospitality and Tourism Management

**HOSM 200 Financial Accounting for the Hospitality Industry**

Principles of financial accounting applied to lodging and food and beverage operations, including concepts, practices, and the preparation and analysis of financial statements. (3)

**HOSM 201 Introduction to the Hospitality and Tourism Industry**

Management of hospitality operations including growth and development, organizational structure, operations, sales and marketing, accounting and finance, and the fundamental role of guest service. Available through External Studies Program. (3)

**HOSM 210 Front Office Management**

Effective principles and techniques of front office operation. The flow of reservations through collection and accounting. Revenue enhancement, room inventory management, handling guest complaints, and loss inventory management. (3)

**HOSM 211 Personnel Management for the Hospitality Industry**

Skills and techniques in recruiting, interviewing, supervising, staffing, and scheduling; emphasis on effective training, incentive systems, and the relationship between organizational structure and behavior. Prereq: Hosm 201 or concurrent. (3)

**HOSM 212 Problems of Rooms Division Management**

Management of front office, concierge, bell service, PBX, reservation, and security; emphasis on building management, housekeeping, and engineering functions. (3)

**HOSM 230 Food and Beverage Management**  
Menu planning, forecasting, purchasing, inventory and storage, issuing, preparation, service, waste management, and sanitation. Available through External Studies Program. Prereq: Hosm 201 or concurrent. (3)

**HOSM 231 Introduction to Meeting, Convention, and Exhibition Management**  
Corporate and association meetings, conventions, and trade and consumer shows in historical, operational, and economic perspective. The role of meeting planners within their organizations and their relationships to industry suppliers. Career opportunities introduced by industry professionals. Also available over the Internet through RU Online. (3)

**HOSM 250 Hospitality Sales**  
Hospitality products, sales techniques, markets, consumers, and sales strategies. The role of marketing and its relationship to sales; sales as a career; the challenges of hospitality sales. (3)

**HOSM 275 Hospitality Law**  
Legal environment of the hospitality industry as it relates to the effective management of risk and prevention of loss. Topics include types of law, contracts, agency, employer/employee relationships, liability, and specific applications to lodging, food and beverage, and meeting, convention, and exposition management. Available through External Studies Program. (3)

**HOSM 285 Internship in Hospitality Management**  
Supervised learning experience in the hospitality industry; the operations of food and beverage, lodging, or meeting, convention, and exposition management organizations. Placement and learning objectives are subject to the approval of the instructor. (3)

**HOSM 290 Methods and Research in Hospitality Management**  
Concepts and techniques of applied business research to identify market opportunities, determine levels of customer satisfaction, monitor quality of service, and improve employee relations. (3)

**HOSM 300 Managerial Accounting for the**

**Hospitality Industry**  
Principles of managerial accounting applied to lodging and food and beverage operations. Financial statement analysis, concepts of cost, cost allocation, operating and capital budgeting, break-even analysis, discounted cash flow, and tax impact. Prereq: Math 100 and Hosm 200 or Acct 210. (3)

**HOSM 301 Management and Operations in Hospitality**  
Extends material in Hosm 300. Financial statements; diagnosis of operational problems in hospitality organizations; evaluation of alternatives and optimal solutions; examination of changing financial operating structure through capital improvements. (3)

**HOSM 302 Hotel Operations**  
Managerial perspective in hotel operations; coordination, communication, and record keeping; effective external relationships with the media and with labor unions. (3)

**HOSM 303 Hotel Development and Opening**  
The development of a hotel from concept to actual operation. Site selection, feasibility studies, and strategic planning. Staffing the property, the role of the pre-opening office, consumer advertising, and public relations. (3)

**HOSM 304 Facilities Management and Engineering**  
Engineering and maintenance needs of the lodging, food and beverage industry; building environment and rehabilitation; mechanical and electrical equipment; utilities and energy conservation management. Also available through External Studies Program. (3)

**HOSM 311 Organizational Development for Hospitality**  
Sociological and psychological views of organization functioning; accounting and human resources; implications of technology on work; management ideology, unionism, and worker empowerment; product development and service focus; the impact of social movements and government initiatives on organization practices. Available through External Studies Program. Prereq: 12 sem hrs of hospitality management or consent and UWR. (3)

**HOSM 315 Applications and Techniques of**

**Meeting and Convention Management**

Tools needed to plan and manage successful meetings and conventions. Twenty-four functions of meeting and convention planning as defined by the Convention Industry Council. Also available over the Internet through RU Online. (3)

**HOSM 317 Issues and Trends in Meeting and Convention Management**

Topics include marketing conventions, trade shows, and special events; legal issues for meetings and conventions; contract negotiations; adult learning; program design and evaluation; food and beverage trends for successful conventions; technological trends. Also available over the Internet through RU Online. Prereq: Hosm 231 and 315. (3)

**HOSM 323 Exhibition Management**

History and development of the exhibition industry; activities of its key participants, including exhibitors, attendees, and support organizations. Selecting sites, budgeting, negotiating, registering, scheduling, and promoting exhibitions. Exhibition design and labor management. (3)

**HOSM 324 Special Events**

Site selection, entertainment, catering, pyrotechnics, equipment and tent rental, props, floral décor, and lighting. Buyers of and markets for special events. (3)

**HOSM 325 International Tourism**

The roles of international public and private sector organizations and associations, educational and research institutions, and transnational and local corporations. Comparisons of different national tourism strategies. The sociocultural, economic, and environmental impacts in industrialized and Third World countries. The implications of broad global trends and issues on tourism. Prereq: 12 sem hrs of hospitality management or consent. (3)

**HOSM 326 Urban Tourism**

Tourism-related decisions in the context of competing community, corporate, and political interests. The social, cultural, economic, and environmental impact of tourism on cities. The global and competitive nature of tourism and the cooperative-competitive tensions between organizations at the local, state, national, and international levels. Chicago is studied as a specific case. (3)

**HOSM 327 Tourism and the Hospitality Industry**

The social and psychological dimensions of travel; market demand; feasibility analysis of destination development; planning processes; finance; and personal requirements. Economic role and impact of tourism nationally and internationally. Retail travel agency management and tour wholesaling. Available through External Studies Program in print-based format and over the Internet through RU Online. Prereq: six sem hrs in hospitality and tourism management. (3)

**HOSM 330 Food and Beverage Controls**

Management of resources in food and beverage operations. Planning and budgeting, establishing standards, and monitoring performance. Techniques for labor planning, scheduling, and staffing. Production controls, such as standard recipes, portion sizes, and methods. (3)

**HOSM 333 Purchasing for the Hospitality Industry**

Procurement of goods and services for hospitality operations, including needs assessment, products and specifications, and bidding procedures; single vs multiple vendors; bidding frequency; cost/benefit analysis. Available through External Studies Program. (3)

**HOSM 334 Club Management I**

Multi-sport and private club management. History and development, marketing and promotion, club law, human resources, operations, budgets, and club accounting. Considerations unique to clubs, including insurance, recreational management, membership issues, and working with boards. (3)

**HOSM 335 Restaurant/Foodservice Management**

A systems perspective on foodservice operations; issues in commercial and institutional foodservices, industry trends, competitive analysis, evaluation of operations, and implementing change in foodservice organizations. (3)

**HOSM 337 Wine, Liquor, and Beverage Management**

Origins, production, classifications, and characteristics of all types of alcoholic beverages; historical, social, economic, and political perspectives. Training of servers and the liability of owners; aspects of bar management

including marketing, advertising, and hiring. The complementary relationships between foods and drink. Prereq: Hosm 201 and 230; age 21 at time of registration. (3)

**HOSM 338 Seminar in Design, Layout, and Engineering**  
Programming and space analysis, work analysis, design and layout, engineering, equipment selection, and environmental design for food and beverage facilities. (3)

**HOSM 339 Multi-Unit Food and Beverage Management**  
Operation, management, and control of systems for multi-unit or chain food and beverage operations. (3)

**HOSM 340 Computer Applications for the Hospitality Industry**  
Spreadsheets, word processing, and database applications in the hospitality industry; specific programs for lodging, food and beverage, and meeting, convention, and exposition management. (3)

**HOSM 345 Seminar in Hospitality Management Techniques and Problems**  
Issues, trends, and problems facing the contemporary hospitality manager. A different topic is covered each semester. (3)

**HOSM 350 Advanced Marketing for the Hospitality Industry**  
Market research, positioning, marketing plan development, promotion and personal selling, advertising, and specific business development techniques. Available through External Studies Program in print-based format. (3)

**HOSM 360 The Communication Function in the Hospitality Industry**  
Effective written communication illustrated in business memos, letters, reports, press releases, and presentations. Survey of interview process as major form of communication. Emphasis on employment, goal setting, appraisal, and disciplinary interview. (3)

**HOSM 365 Introduction to Gaming**  
Gaming industry history, government regulation, and economic impact with focus on the economics of gaming. Gaming's interface with lodging, food, and beverage on the property as well as gaming's interface with tourism and

government in the community. Components of casino operations, various careers, and the functions of those occupations within the gaming industry. Prereq: students must be at least 21 years of age. (3)

**HOSM 366 Casino Operations and Management**  
History of the gaming industry as it applies to modern management philosophy and regulation. Hotel casino cash flow sources and mechanics of production. Analysis of slot operations, games, casino marketing, and overview of selected areas of casino management. Basic statistical applications related to casino management. Prereq: students must be at least 21 years of age. (3)

**HOSM 370 Multicultural Issues in Hospitality Management**  
Diversity and multiculturalism are critical themes in the hospitality industry, particularly for those who prepare for management-level positions. History of the industry, critical contemporary issues, development of competence and sensitivity. (3)

**HOSM 371 Advanced Cost Control: Food and Beverage Controls for the Kitchen Manager**  
The role of the food and beverage office in kitchen cost analysis. Break-even point analysis, menu analysis, price point structuring, and beverage analysis. (3)

**HOSM 372 Computer Applications for the Culinary Manager**  
Up-to-date software and programs applicable to total quality kitchen management; all programs compatible with both IBM and Macintosh computers. Profit and loss analysis, spread sheets, and various cost control programs. (3)

**HOSM 373 Modern Food Technology**  
Biotechnology, genetics, and the future of farming and its effect on food for human consumption. Modern food equipment, processing techniques, and packaging. Field trips. (3)

**HOSM 374 Global Healthy Cuisine**  
The American Pyramid compared to the Asian, Latin American, and Mediterranean pyramids. Classical and present-day menus analyzed for nutritional content and reformatted using



computer-generated nutritional programs to reduce fat and protein consumption. Substitutions of foods to provide flavor and perceived value without excess fat and protein. (3)

**HOSM 375 Culinary History I**  
Origins of food throughout the world and its uses by various cultures. Asian, Middle Eastern, and European foods and their effect on the New World, and the New World's effect on them. Table manners, eating styles, and culinary instruments. (3)

**HOSM 376 Culinary History II**  
Post-Columbian evolution of the New World. South American, Latin American, Caribbean, and North American food culture. The American diet traced back to a melting pot of cultures and food stuffs that were indigenous to the five continents. Inventions, restaurants, hotels, and the innovators who helped to shape the US into a modern fusion of cuisines. (3)

**HOSM 377 Contemporary Issues for the Food and Beverage Manager**  
Political, social, ethical, and environmental issues. Organizations which play a major role in the success of food and beverage operators, such as the Illinois Restaurant Association; National Restaurant Association; and the Council of Hotel, Restaurant, and Institutional Education. (3)

**HOSM 378 Culinary Management in Food Retailing**  
Chef managers in retail markets, food stores, and large food chains. Demands and marketing strategies of the retail trade. Various types of retail markets, such as Whole Foods and Byerly's; large chains such as Dominick's and Jewel Food Stores. (3)

**HOSM 379 Research and Development in the Corporate Test Kitchen**  
A laboratory environment which duplicates the processes through which corporate chefs initiate new product development. Test products will be developed through the several stages to final production. Guest corporate chefs and technologists. (3)

**HOSM 380 Nutrition in Foodservice**  
Public safety and quality of foodstuffs. Provision of foods with long shelf life that are high

in nutrition and free from harmful additives. Understanding of labeling and packaging, nutritional alternatives, and marketing strategies. (3)

**HOSM 381 Marketing the Food and Beverage Industry**  
Marketing of single restaurants, clubs, chains, and hotel food and beverage products. Marketing strategies; how to get the best return for investments in marketing. (3)

**HOSM 385 Internship in Hospitality Management**  
A supervised learning experience in the hospitality industry. Placement and learning objectives are subject to the approval of the instructor. (3)

**HOSM 386 Internship in Hospitality Management**  
A supervised learning experience in the hospitality industry. Placement and learning objectives are subject to the approval of the instructor. (3)

**HOSM 393 Special Topics in Hospitality**  
Special interest topics and research analysis covering all areas of hospitality management. (3)

**HOSM 395 Independent Study in Hospitality Management**  
An opportunity to gain practical experiences in areas not currently covered by the curriculum. Open only to juniors and seniors. Prereq: approval of the instructor, department director, and dean of the college. (1-6)

**HOSM 399 Hospitality Senior Project**  
A guided independent research project on a topic of vital interest to the student as a practicing hospitality professional. Topic chosen in consultation with the instructor. (3)

## Human Resources Management

**HRM 311 Introduction to Human Resources Management**  
Contribution of human resources management to success in business organizations; present-day human resources theory and practices; contributions of behavioral sciences

to interpersonal relations. Available through External Studies Program. (3)

**HRM 313 Wage and Salary Administration**  
Relationship of job evaluation, job classification, merit rating systems, seniority systems, and salary surveys to wage and salary administration; all forms of compensation, including wage rates, salary structure, incentive systems, bonus plans, profit sharing, stock options, and fringe benefits. Prereq: Hrm 311. (3)

**HRM 321 Employment Techniques**  
Basic approach to work force management; staffing schedules; position specifications; selection process; interviewing and role-playing techniques. Prereq: Hrm 311 and Econ 234. (3)

**HRM 331 Industrial Relations Management**  
Survey of industrial relations. Collective bargaining, arbitration, and mediation; communication between management and labor; recent labor legislation. Prereq: Hrm 311. (3)

**HRM 360 Employee Benefits**  
See Fnsv 360. (3)

**HRM 361 Supervisory and Employee Training**  
Methods of training employees; building training programs; developing supervisors; determining need for supervisory training; measuring results of training; examination of growth of company training programs. Prereq: Hrm 311. (3)

**HRM 395 Independent Study in Human Resources Management**  
See Mgmt 395.

## Information Systems

**INFS 330 Management Information Systems**  
Organizational and technical concepts; the roles of data and information; global aspects of information systems; business problem solving. Available through External Studies Program. Prereq: Mgmt 358. (3)

**INFS 334 Systems Development**  
Theory of systems development; systems analysis and design; system synthesis; procedures charting; form design; control and standardization. Prereq: Mgmt 300 and Infs 330. (3)

**INFS 388 Project Management**  
Managerial approaches to conducting projects from inception to completion. Systems and procedures, including planning fundamentals, scheduling, resource estimation, evaluation and review techniques, managing risk; control and team development. Prereq: Mgmt 300, Infs 330. (3)

## Italian

**ITAL 101 Elementary Italian**  
Mastery of basic language skills of listening, speaking, reading, and writing. For beginners. (3)

**ITAL 102 Elementary Italian**  
Continuation of Ital 101. Prereq: Ital 101 or equivalent. (3)

**ITAL 201 Intermediate Italian**  
Review of essentials of grammar and continuing the practice of basic skills of listening, speaking, reading, and writing. Taught in Italian. Offered on demand; consult Class Schedule for availability. Prereq: Ital 102 or equivalent. (3)

**ITAL 202 Intermediate Italian**  
Continuation of Ital 201. (3)

## Jazz Studies

(See Music: Jazz Studies)

## Journalism

**JOUR 201 Communication in the Information Age**  
Prerequisite course for journalism, public relations, and integrated communications (advertising) majors. Overview of print and broadcast journalism, public relations and advertising; emphasis on the role and effects of media in society. The transformation of mass communication resulting from the development, diffusion, and convergence of new technologies. Prereq: Eng 102 with a grade of C or better or consent of instructor. (3)

**JOUR 202 Introduction to Public Relations**  
Principles, history, and practice of public relations in business, educational institutions,

social welfare organizations, government, military services. Includes planning, research, writing, and production of public relations materials. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 203 Introduction to Advertising**  
Overview of advertising principles and practice. Introduction to each area of the advertising business, including research, account management, and media planning and buying as well as creative design, copywriting, and commercial production. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 205 Beginning Computer Graphics**  
Typefaces, photographs, and other illustrations, decoration and ornamentation, layout in presentation of news; use of graphics to reflect publication character and to attract readers. Work with Illustrator and PhotoShop. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 208 Introduction to Broadcasting**  
Overview of radio, television and cable; history, structure and social responsibility of broadcast organizations; adaptation of news, tour of broadcasting station. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 219 Essential Media Skills**  
Language essentials; terminology of media professions; computer systems for communication, writing, analysis, and illustration; Internet research; basics of digital video production. Required for students who begin journalism major in Fall 2003 or later. Recommended as elective for others. Prereq: Jour 201 or concurrent. (3)

**JOUR 220 Media Writing**  
News writing principles, interview techniques, classroom and outside writing practice; introduction to writing appropriate to print, broadcast, online journalism, public relations, and advertising. Course meets for five hours weekly and includes writing in lab. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 240 Communications Research**  
Research techniques for advertising, journalism, professional communication and public relations for measuring audience attitudes, interests, and opinions. Focus on selecting appropriate research methods/techniques;

gathering primary and secondary data; analyzing, interpreting, reporting, and applying data in social, commercial, and political environments. Includes researching information on computerized databases and the Internet. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 243 Visual Communication and Technology**  
An in-depth look at the development of visual communication from the Renaissance to virtual reality. Review of technologies such as photography, film, digital imaging, multimedia, the Internet and the World Wide Web. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 305 News Broadcasting**  
News reporting for radio and television: writing, video editing, and delivering news and feature stories. Prereq: Jour 220; Jour 219 recommended. (3)

**JOUR 310 History of Journalism**  
Development of journalism from European antecedents of the American colonial press through trends developing during the 21st century. Examines US newspapers, magazines, radio, television, and other media. (3)

**JOUR 319 News Reporting**  
Field reporting course with emphasis on writing detailed or complex stories from student-initiated beat coverage, interviews, on- or off-campus events, and assignments; research and writing from documents and press conferences. Prereq: Jour 220 or consent. (3)

**JOUR 321A Journalism Internship**  
In-service training with a professional publication or broadcast station. Consult with an academic advisor for a copy of internship syllabus. Prereq: Jour 220 and consent of internship supervisor. Additional prereq for broadcast: Jour 305. (3)

**JOUR 321B Integrated Communication (Advertising) Internship**  
In-service training with an advertising agency. Consult with an academic advisor for a copy of internship syllabus. Prereq: Jour 203, 220 and one additional advertising course. (3)

**JOUR 321C Public Relations Internship**  
In-service training with a public relations agency. Consult with an academic advisor for

a copy of internship syllabus. Prereq: Jour 202, 220 and one additional public relations course.

**JOUR 321D Communications Internship**  
In-service training in the corporate/organizational setting (professional communications concentration) or in a media production center (media studies concentration). Consult with an academic advisor for a copy of internship syllabus. Prereq: Jour 201, 240, 243 and Spch 345; Bcom 301 required for professional communication concentration; Jour 375 required for media studies concentration.

**JOUR 322 Feature Writing**  
Principles and practices of writing newspaper and magazine features. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 323 Television: Issues and Art**  
Television as a social force; controls exercised by regulatory agencies, station owners, and public; TV as a popular art form; its history and program genres. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 325 Photography: From Chemical to Digital**  
Introduction to black and white photography and digital imaging. Theories and problems, basic camera and darkroom techniques, working with Photoshop on Macintosh computers. Students provide cameras and some supplies. Lab fee. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 328 Digital Photography**  
The ethical, philosophical and practical considerations regarding digital imaging. Use of flat-bed scanners, 35mm slide and negative scanners, and digital cameras for inputting images into the computer. Primary imaging program will be Adobe Photoshop. (3)

**JOUR 330 Reviewing the Arts**  
Analysis and writing of book, theater, film, musical performance, dance, and visual arts reviews. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 331 Travel Writing**  
Tradition and practice of travel writing; reading of significant travel writers; travel writing assignments. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 341 Public Relations Case Problems**  
Analysis of case studies and public relations problems in industry, labor, education, government, social welfare, trade associations. Includes planning, writing, and production of public relations materials for various media based on case issues. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 342 Politics and Media**  
A blend of theory and practice focusing on how the media cover politics; how politicians, special interest groups, and political parties attempt to influence the media; and how politicians and issue advocacy groups use advertising to take their message directly to voters. Emphasis on the interplay among media, candidates, and special interest groups and the effect of today's political campaigns on society and democracy; use of polls and focus groups to drive message; the future of campaign finance reform. Prereq: Jour 200 or consent of instructor. (3)

**JOUR 343 Public Relations Campaigns**  
Strategic planning, research, implementation and evaluation of public relations campaigns. Includes writing of objectives and production of public relations program materials. A project-based capstone course. Replaces Jour 340. Prereq: Jour 341 or consent of instructor. (3)

**JOUR 345 Writing for Newsletters**  
Skills course focused on information gathering and writing skills for newsletters. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 346 Newsletter Publishing**  
Audience research, budget planning, and production overview for newsletters, both print and online, whether they are strictly journalistic entities, promotional arms of business or adjuncts to organizations. Students produce a prototype newsletter and use Quark Xpress software for design. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 347 Creative Marketing Campaigns**  
Combining art and copy for effective strategy; using persuasive techniques and ideas in successful integrated marketing communications campaigns. A project-based capstone course. Prereq: all other required courses in the advertising major. (3)

**JOUR 350 Editing**  
Emphasis on grammar, usage, copy editing,

headline writing; overview of editorial processes and standards; introduction to layout and design, and photo editing. Recommended elective for journalism majors who choose no concentration. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 351 Public Opinion and Propaganda**  
Factors in public opinion formation; techniques and uses of public opinion polling; definition, identification, and socially positive and negative uses of propaganda. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 352 Editorial and Column Writing**  
Writing of well researched, logically argued editorials and columns expressing opinion of newspaper, other publication, broadcast station, or individual journalist. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 353 The Alternative Media**  
Roles of suburban and rural media, ethnic and community newspapers, and alternative and online media. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 354 Publication Design**  
Theories of design and practical experience with creating layout and using photos and art in newspapers, magazines, newsletters, online publications. Students use QuarkXPress software for hands-on layout exercises. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 355 Magazine Writing**  
Research and writing of articles for the contemporary magazine. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 357 Magazine Production**  
Research, writing, design, and production of magazine. Students use QuarkXPress in creation of a magazine prototype. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 361 Advanced Photography**  
An exploration of digital and chemical photographic practice and theory. Students will learn how to shoot using artificial light, will develop and print black and white photographs, and will produce a substantial portfolio. Lab fee. Prereq: Jour 325 or consent of instructor. (3)

**JOUR 363 Law and Ethics**  
First Amendment rights and responsibilities; libel and slander; legal access to public meetings and documents; restrictions on print and broadcast media, criteria for ethical decision making. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 365 Writing for Trade Journals**  
Research and writing of articles for specialized trade journals; survey of trade journal field. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 374 Science Writing**  
Students research and write articles on scientific topics, ranging from genetic engineering to voice activated computers. Prereq: Jour 220 or consent of instructor. (3)

**JOUR 375 Media Criticism**  
Students use newspapers, magazines and the Internet in applying contemporary criticism to current media issues and performance. Emphasizes the social impact of mass media messages. Prereq: Jour 201 or consent of instructor. (3)

**JOUR 389 New Media and Technology**  
Broad overview of current trends and new forms of media and technology and their potential effects. Course focuses on the World Wide Web, interactive media, online services, digital photography, and other current topics. Lecture/lab, discussion, hands-on experience with computer applications, including fundamentals of website design. Prereq: Jour 220 or consent of instructor for journalism majors; Jour 220 or Bcom 301 for communications majors. (3)

**JOUR 390 Special Topics: Journalism Today**  
Course content varies by semester but always focuses on current issues and/or diversity, alternative media, and social justice as they relate to media. Prereq: Jour 220 and one 300-level journalism course, or consent of instructor. (3)

**JOUR 392 Convergence Newsroom**  
Capstone course for journalism majors, focusing on production of a final reporting project on a selected topic and presented in print, video, and web formats. Prereq: all required courses in the major; Jour 363 or 390 may be taken concurrently.

**JOUR 393 Practicum**

Designed for students who cannot complete traditional internships. Possible hands-on projects include projects developed by students for their employers. Prereq: approval of the internship supervisor. (3)

**JOUR 395 Independent Study**

Independent projects in journalism, public relations or advertising in which students work closely with a faculty supervisor. Students must arrange their independent projects with their faculty supervisors before registering for their independent studies. Prereq: consent of instructor. (3)

## Language and Literacy

(See Education: Language and Literacy)

## Liberal Studies

**LIBS 111 Great Ideas I**

Important ideas and themes through a reading of great works of literature. Readings include an ancient Greek play or epic, a selection from the Bible, a dialogue of Plato, a reading from the Middle Ages, a Renaissance work, one of Shakespeare's plays, and a 17th-century work dealing with the rise of modern science. Prereq: Eng 101 or concurrent. (3)

**LIBS 112 Great Ideas II**

The sequel to Libs 111. An 18th-century Enlightenment work, a reading on Romanticism (novel or poetic work), a 19th-century novel, a 19th-century work on political philosophy, a late 19th- or early 20th-century work on the dilemma of modernism, a notable 20th-century work of literature or philosophy. Prereq: Eng 101 or concurrent. (3)

**LIBS 201A Writing Social Justice in the Academy - Fine Arts and Humanities**

This course is designed to familiarize students with reading and writing conventions in the fine arts and humanities, with attention to educational access and business ethics. Multi-drafted writing assignments prepare students to develop social justice research projects relevant to their own academic interests. Regardless of major, students may take this course to fulfill the Libs 201 General Education

requirement. (3) Prereq: UWR. (3)

**LIBS 201B Writing Social Justice in the Academy - Social Sciences**

This course is designed to familiarize students with reading and writing conventions in the social sciences, with attention to educational access and business ethics. Multi-drafted writing assignments prepare students to develop social justice research projects relevant to their own academic interests. Regardless of major, students may take this course to fulfill the Libs 201 General Education requirement. Prereq: UWR.(3)

**LIBS 201C Writing Social Justice in the Academy - Natural and Mathematical Sciences**

This course is designed to familiarize students with reading and writing conventions in the natural and mathematical sciences, with attention to educational access and business ethics. Multi-drafted writing assignments prepare students to develop social justice research projects relevant to their own academic interests. Regardless of major, students may take this course to fulfill the Libs 201 General Education requirement. Prereq: UWR.(3)

**LIBS 241 Environmental Problems of Metropolitan Areas**

See Pos 341. Prereq: UWR. (3)

**LIBS 245 The City and Citizenship**

History, political economy, and architecture of US cities in relation to historical and philosophical debates about citizenship and democracy. Broad social, economic, and political issues in the US; urban processes and institutions that make for broader sociopolitical stability and change. May be used to fulfill a signature course. Field placement in an organization with a mission of social justice may be arranged with the instructor for 1-3 credits. See Svl 245. Prereq: UWR. (3)

**LIBS 246 Arts and Urban Life**

See Art 246. Prereq: UWR. (3)

**LIBS 247 The Arts and Modernism**

See Eng 247. Prereq: UWR. (3)

**LIBS 248 Gender and Urban Life**

See Econ 248. Prereq: UWR. (3)

**LIBS 254 Social Justice: History, Issues,**

## Strategies

See Hist 254. Prereq: UWR. (3)

## LIBS 260 Ethnicity in North America

See Hist/Pos 260. Prereq: UWR. (3)

## Management

## MGMT 300 Operations Management

Problems, principles, and methods of analysis related to production and operations management of industrial and service organizations. Forecasting; capacity planning; facilities location and layout; inventory analysis; scheduling; simulation; and quality assurance. Prereq: Acct 211 or 102, Math 116, and Econ 234. (3)

## MGMT 302 Topics in Operations Management

Topics based on faculty/student interest may include operations management in the services, quality management, production planning and control, business logistics management, or simulation. Prereq: Mgmt 300. (3)

## MGMT 331 Industrial Relations Management

Survey of industrial relations. Collective bargaining, arbitration, and mediation; communication between management and labor; recent labor legislation. Prereq: Hrm 311. (3)

## MGMT 332 Management Science

Development and application of quantitative models to assist in managerial decisions. Resource allocation, waiting lines, scheduling, and transportation. Optimization and heuristic models. Prereq: Mgmt 300. (3)

## MGMT 333 Business Ethics

See Phil 333. (3)

## MGMT 345 Business Forecasting

Methods of business forecasting for planning and decision making. Emphasis on computer and statistical models; current forecasting tools and practices. Prereq: Mgmt 300 and Econ 234. (3)

## MGMT 358 Behavioral Science and

## Organization Theory

Historical, social, and psychological factors associated with various organizational structures; human consequences of various organizational arrangements; techniques and programs by which organizations may be modified or designed. Available through

External Studies Program and on the Internet through RU Online. (3)

## MGMT 388 Project Management

Managerial approaches to conducting projects from inception to completion. Systems and procedures, including planning fundamentals, scheduling, resource estimation, evaluation and review techniques, managing risk; control and team development. Prereq: Mgmt 300, Infs 330. (3)

## MGMT 388 Project Management

Managerial approaches to conducting projects from inception to completion. Systems and procedures, including planning fundamentals, scheduling, resource estimation, evaluation and review techniques, managing risk; control and team development. Prereq: Mgmt 300, Infs 330. (3)

## MGMT 390 Special Topics in Management

Topics of current interest in the area of management. May be repeated. Prereq: varies; specific prerequisites will be listed in the Class Schedule. (3)

## MGMT 395 Independent Study in Management

Students work under direction of management faculty on a project selected by student and approved by supervising faculty member, school director, and college dean. (1-3)

## MGMT 398 Organizational Development

Diagnosis of organizational problems involving employees, work groups, and corporate culture and structure; implementation of change in a company's human systems; alternative solutions to these problems. Available through External Studies Program. Prereq: Mgmt 358. (3)

## Marketing

## MKTG 302 Marketing Management

Character and importance of marketing process and its essential functions, activities, and concepts; how goods and services flow from producer to consumer/user. Economic, sociological, and psychological factors affecting managerial decision making in dynamic environment of marketplace. Prereq: Econ 102. (3)

**MKTG 310 Retail Merchandising and Control**  
Activities of individuals or organizations that market products primarily to end consumers; purchasing goods and services for sale; storing, displaying, pricing, advertising, and servicing. Control activities; credit, accounting, materials management, personnel, and insurance. Prereq: Mktg 302. (3)

**MKTG 324 Selling and Sales Management**  
Role of personal selling and sales force management in marketing strategy; sales process, sales techniques. Sales force organization; recruiting, training, motivation, supervision, and performance assessment. Prereq: Mktg 302. (3)

**MKTG 331 Principles of Advertising**  
The role of advertising in the US economy. Elements of the industry. Copy, layout, production, research, and media buying. Newspapers, magazines, direct response, outdoor, radio, television, and point of purchase. Prereq: Mktg 302. (3)

**MKTG 340 Marketing Research**  
Role of marketing research in contemporary marketing. Identification of major secondary sources of marketing information. Research process from study design through data analysis. Qualitative and quantitative techniques. Prereq: Mktg 302 and Econ 234. (3)

**MKTG 344 Marketing Strategy and Planning**  
Relationships between strategic management and strategic marketing. Marketing planning process; analysis, setting of objectives, evaluation of strategies and tactics, implementation, and control of marketing plans. Prereq: Mktg 302, 340, and 324 or 331. (3)

**MKTG 350 Small Business Marketing Strategies and Planning**  
Applied course in entrepreneurship; completion of a business plan for a new business venture. Selection and evaluation of a specific business concept; research into industry trends, competition, the target market, and marketing strategies. The final business plan is presented in both a written document and an oral presentation. Prereq: Mktg 302, 340 and Fin 311 or consent of the instructor. (3)

**MKTG 362 International Marketing Strategies**  
Strategies for dealing with various foreign markets. Social and cultural differences as

elements in marketing products effectively abroad. Marketing in age of free trade imperatives. Prereq: Mktg 302. (3)

**MKTG 380 Special Topics in Marketing**  
Topics of interest to faculty and students on important issues in the discipline. Prereq: Mktg 302. (3)

**MKTG 386 Consumer Behavior**  
Concepts in behavioral science for analysis of consumer behavior and informed marketing decisions. Prereq: Mktg 302. (3)

**MKTG 395 Independent Study in Marketing**  
Projects selected by the student and approved by supervising faculty member, department chairperson, and college dean. (1-3)

## Mathematics

All prerequisites must be passed with a grade of C or higher. Courses taken as pass/fail will be given a pass only for work at or above the C level.

**MATH 099 Introduction to Algebra**  
Review of arithmetic of rational numbers and an introduction to algebra, including polynomial expressions, graphing and solution of linear equations in one variable, and applied problems. Prereq: Roosevelt University Assessment. (3)

**MATH 100 Intermediate Algebra**  
Algebraic expressions, exponents, polynomials and factoring; coordinate systems and graphing; linear and quadratic equations, simultaneous linear equations. Prereq: Math 099 or one year of high school algebra and Roosevelt University Assessment. (3)

**MATH 105 Foundations of Arithmetic**  
Sets, counting, problem solving, and number system development. Rationals, decimals, and irrationals. Number theory. Algorithms of arithmetic. Prereq: Math 100 or two and one-half years of high school algebra and/or geometry, and Roosevelt University Assessment. (3)

**MATH 110 Introduction to Contemporary Mathematics**  
Elementary applications of mathematics to real world problems. Three or four mathematical topics from the following: graph theory; linear programming; probability and statistics; geometry; coding; social choice systems; and



game theory. Prereq: Math 100 or two and one-half years of high school algebra and/or geometry, and Roosevelt University Assessment. (3)

**MATH 115 Quantitative and Spatial Reasoning**  
Data analysis, geometry, measurement, symmetry, and tessellations. Prereq: Math 100 or two and one-half years of high school algebra. (3)

**MATH 116 Finite Mathematics**  
Functions and graphs. Systems of linear equations and matrices. Sets, combinatorial methods, probability with applications. Prereq: Math 100 or two and one-half years of high school algebra and/or geometry, and Roosevelt University Assessment. (3)

**MATH 121 College Algebra**  
Algebraic operations, equations and inequalities, graphs and functions, polynomial functions, polynomial equations. Prereq: Math 100 or two and one-half years of high school algebra and/or geometry, and Roosevelt University Assessment. (3)

**MATH 122 Precalculus**  
Trigonometric functions and their properties; trigonometric identities and applications. Systems of equations, matrices, and determinants. Exponential and logarithmic functions. Prereq: Math 121 or placement test. (3)

**MATH 217 Introduction to Probability and Statistics**  
Elementary probability and probability distributions, random variables, expectation and variance; binomial and normal probability distributions. Applications to estimation, confidence intervals, statistical testing of hypotheses, two-sample techniques. Correlation and least squares. Prereq: Math 116 or 121. (3)

**MATH 231 Calculus I**  
Functions, limits, continuity, and rates of change are studied numerically, symbolically, and graphically. Definition and rules of differentiation; applications of the derivative to analyzing functions, solving equations, and computing extrema; antiderivatives. Prereq: Math 121 and 122 or placement test. (4)

**MATH 232 Calculus II**  
Introduction to integration and the fundamen-

tal theorem of calculus. Numerical integration, application and methods of integration; Euler's method; Taylor polynomials, L'Hopital's rule, sequences, and series. Prereq: Math 231. (4)

**MATH 233 Calculus III**  
Polar and three-dimensional coordinates, vectors, planes, and surfaces; functions of several variables; continuity, partial derivatives, chain rules, multiple integrals, line integrals. Prereq: Math 232. (3)

**MATH 238 Applied Statistical Methods**  
Second course in statistics; comparison of normal means, simple and multiple regression, correlation, contingency tables and Chi-square tests, analysis of variance, and nonparametric methods. Prereq: Math 217 or 348 or Econ 234 or Psych 200. (3)

**MATH 245 Discrete Structures**  
Sets, logic and Boolean algebras. Basic counting techniques; number systems; elementary probability; graphs and trees with applications to elementary data structures. Emphasis on algorithms. Prereq: Math 121 and one programming course or concurrent. (3)

**MATH 269 Theory of Interest**  
Mathematics of interest, accumulated value and present value, annuities certain; amortization schedules, and sinking funds; bonds and related securities; depreciation. Prereq: Math 231. (3)

**MATH 280 Mathematical Modeling**  
The modeling process. Model fitting and models requiring optimization; empirical model construction; model analysis and sensitivity; simulation modeling; modeling dynamic behavior. Prereq: Math 231. (3)

**MATH 290 Mathematical Reasoning**  
Elementary logic, sets, elementary number theory, relations, functions, and methods of mathematical proof including direct proofs, indirect proofs, mathematical induction, case analysis, and counterexamples. Prereq: Math 232 or concurrent. (3)

**MATH 295 Independent Study**  
Prereq: consent of instructor. (1-3)

**MATH 300 Linear Algebra**  
Vector spaces; linear transformations and matrices; inner products and orthogonality; eigenvalues; eigenvectors; and diagonalization. Prereq: Math 231 or 245. (3)

**MATH 307 Differential Equations and Modeling**  
The use and interpretation of differential equations using modern technology. First and second order linear equations, with attention to some nonlinear ones; systems of equations; numerical methods. Prereq: Math 232. (3)

**MATH 316 History of Mathematics**  
Evolution of mathematical ideas; major developments; problem solving, algorithms, and theoretical framework. Prereq: Math 231. (3)

**MATH 317 Geometry**  
Comparative study of modern postulates, invariants, and implications of Euclidean, projective, and non-Euclidean geometries. Prereq: Math 231 or 245. (3)

**MATH 318 Number Theory**  
Study of integers. Division and Euclidean algorithms, prime numbers, unique factorization; Diophantine equations; congruences; Fermat's and Euler's theorems; quadratic reciprocity. Prereq: Math 231 or Math 245. (3)

**MATH 320 Introduction to Abstract Algebra**  
Elementary properties of groups, rings, integral domains, and fields; symmetry; factorization of integers and polynomials; construction of quotient field of an integral domain. Prereq: Math 290 and 300. (3)

**MATH 328 Linear Programming and Optimization**  
Models of optimization with linear constraints and objectives; simplex method and related algorithms; duality and sensitivity; transportation and assignment problems, games, and network flows. Computer use course. See Cst 328. Prereq: Math 300 and one programming course. (3)

**MATH 330 Numerical Analysis**  
Solution of equations by iteration; interpolation; numerical differentiation and integration; numerical solutions to linear systems. Computer use course. See Cst 330. Prereq: Math 232, Math 300, and one programming course. (3)

**MATH 332 Operations Research**  
Stochastic methods in operations research. Queuing theory; Markov processes; decision analysis; simulation; stochastic dynamic programming. Computer use course. Prereq: Math 231 and 217, or Math 347. (3)

**MATH 345 Combinatorics**  
Permutations and combinations; identities involving binomial coefficients; inclusion-exclusion principle; recurrence relations; generating functions; introduction to theory of graphs. See Cst 345. Prereq: Math 232 and 245. (3)

**MATH 347 Probability and Statistics I**  
Probability models; random variables; probability distributions; expectation and moment generating functions of random variables; multivariate distributions. See Acsc 347. Prereq: Math 233 or concurrent. (3)

**MATH 348 Probability and Statistics II**  
Continuation of Math/Acsc 347. Distributions of functions of random variables, sampling distributions; Central Limit Theorem; point estimators and confidence intervals; hypothesis testing; linear models. See Acsc 348. Prereq: Math 347. (3)

**MATH 349 Regression and Time Series**  
Simple and multiple linear regression models; time series analysis; applications to forecasting. Use of a statistical computer package; no previous experience with computers is required. Prereq: Math 231 and 238, or Math 348. (3)

**MATH 350 Boolean Algebra and Switching Theory**  
Logic gates and Boolean algebras. Minimization of switching functions, and Karnaugh maps. Introduction to logic circuits, flip-flops, counters and registers. Digital arithmetic. See Cst 350. Prereq: Cst 250, Math 245, and Math 231. (3)

**MATH 352 Analysis**  
Introduction to proving theorems in analysis. Properties of the real numbers; induction; limits of sequences; continuity; derivative; Riemann integral. Math 300 recommended. Prereq: Math 233 and 245 or Math 290. (3)

**MATH 355 Functions of a Complex Variable**  
Elementary functions of complex variables; complex differentiation and integration; Cauchy-Goursat theorem; Taylor and Laurent series; singularities and residues; conformal mapping. Prereq: Math 233 and 245 or Math 290; Math 300 recommended. (3)

**MATH 357 ANOVA and Experimental Design**  
One-way analysis of variance (ANOVA); mul-

tiple comparison methods; basic experimental designs; analysis of covariance (ANCOVA); factorial treatment structures; split plots; confounding and fractional replication. Prereq: Math 217, 238, or 348, or Econ 234, or Psyc 307. (3)

MATH 358 Theory of Integration  
Henstock and Lebesgue integrals and their relation to Riemann integral; convergence theorems; elements of measure theory. Prereq: Math 300 and 352. (3)

MATH 369 Actuarial Mathematics I  
Survival distributions and life tables; life insurance; life annuities. Prereq: Math 269 or concurrent, Math 348. (3)

MATH 370 Actuarial Mathematics II  
Benefit premiums; benefit reserves; multiple life functions; multiple decrement models. Prereq: Math 369. (3)

MATH 377 Survival Models  
Survival data, survival functions, hazard functions, life tables, comparing two groups of survival data, parametric models of survival data, and sample size for survival studies. Prereq: Acsc/Math 348 or concurrent. (3)

MATH 378 Topics in Actuarial Mathematics  
Selected topics in actuarial models and actuarial modeling. May be repeated for up to six semester hours of credit. Prereq: varies; specific prerequisites will be listed in Class Schedule. (3)

MATH 388 Special Topics in Statistics  
Course content varies. May be repeated for up to six semester hours credit. Prereq: varies; specific prerequisites will be listed in the Class Schedule. (3)

MATH 389 Special Topics  
Course content varies. May be repeated for up to six semester hours credit. Prereq: varies; specific prerequisites will be listed in Class Schedule. (3)

MATH 395 Independent Study  
Prereq: consent of instructor. (3)

## Music Education

ME 149 Seminar in Public School Music  
Duties and obligations of the classroom teacher; demands of the career. First foundations for the formation of the student's personal teaching philosophy. Limited classroom visitation; provides 10 hours of clinical experience. (1)

ME 152 Brass Methods  
Intensive group study of basic playing techniques for trumpet, trombone, and French horn. Pedagogical approaches to the teaching of brass instruments to children. Instrument care and repair. Requires participation in Ens 130 in the subsequent semester. (1)

ME 153 Woodwind Methods  
Intensive group study of basic playing techniques for flute, clarinet, and saxophone. Pedagogical approaches to the teaching of woodwind instruments to children. Instrument care and repair. Requires participation in Ens 130 in the subsequent semester. (1)

ME 154 String Methods  
Intensive group study of basic playing techniques for violin, viola, cello, and bass. Pedagogical approaches to the teaching of string instruments to children. Instrument care and repair. Requires participation in Ens 131 in the subsequent semester. (1)

ME 155 Percussion Methods  
Intensive group study of the family of percussion instruments, with emphasis on teaching proper approaches, hand positions, and grips to children. Instrument care and repair. (1)

ME 156 Beginning Guitar  
Intensive group study of guitar as accompaniment for folk and traditional songs. Chords, accompaniment patterns, reading melodies in first position. Emphasis on literature appropriate for elementary and secondary schools; pedagogical approaches to guitar technique and hand position. (2)

ME 157 Folk Instruments  
Introduction to recorder, baritone ukulele, drums, and selected ethnic instruments. Prereq: Me 156 or equivalent. (2)

ME 160 Instrumental Methods for Choral Music

**Education Majors**

Intensive study of basic playing techniques for brass, woodwind, string, and percussion instruments. Care and repair of instruments. (2)

**ME 161 Choral Methods for Instrumental Music Education Majors**

Intensive study of beginning vocal technique and principles of ensemble singing. Introduction to vocal physiology and vocal health. (2)

**ME 200 Music Education Laboratory**

Laboratory ensembles composed of music education majors; students read through repertoire and practice conducting technique. (0-1)

**ME 240 Elements of Conducting**

Development of manual skills, including left-hand independence. Introduction to score reading and analysis. Concurrent enrollment in major University ensemble required. Prereq: Mutc 121. (2)

**ME 241 Choral Conducting I**

Continued development of conducting technique with emphasis on choral applications. Breath cues and releases; developing healthy choral tone; rehearsal strategies. Focus on music of the Renaissance, Baroque, and Classical eras, especially works suitable for inexperienced choral singers, together with appropriate performance practices. Concurrent enrollment in a University choral ensemble required. Prereq: Me 240 or consent of instructor. (3)

**ME 242 Instrumental Conducting**

Continued development of fundamentals of score reading and conducting patterns and gestures for chamber music, orchestra, and band scores. Development of a functional understanding of transposition. Enrollment in University orchestra or wind ensemble required. Prereq: Me 240 or equivalent. (3)

**ME 310 Student Teaching and Seminar in Music**

Culmination of teacher education sequence; open only to regular Upper Division music education students. Weekly seminar for discussion and analysis of problems. Observation and teaching in Chicago-area schools (seven and one-half weeks each at the elementary and secondary levels), working under profes-

sional supervision in programs directly related to student's specific concentration. Presence during entire school day (8:00 am to 3:30 pm in most schools) required; no other University classes may be scheduled before 4:00 pm. Students must have completed minimum of 10 sem hrs in music education courses at Roosevelt. Prereq: Me 350 and 351; Me 331 or 335; and departmental approval. (5-12)

**ME 311 Choral Methods for Elementary and Junior High School**

Selection of appropriate repertoire, lesson plans, conducting methods, score marking, rehearsal and program planning, changing voices, and other issues pertinent to planning for elementary and junior high choral programs. (3)

**ME 312 Choral Methods for Senior High School**

Formulation of four-year curriculum planning for a high school choral program. Selection of repertoire, recruitment, scheduling, lesson plans, conducting methods, score marking, rehearsal and program planning. Prereq: Me 311. (3)

**ME 313 Instrumental Methods for Elementary and Junior High School**

Techniques for beginning students on an instrument and incorporating them into a performing group; incorporating private lessons in the schedule; appropriate repertoire and methods series, and other issues pertinent to beginning band and orchestra programs. (3)

**ME 314 Instrumental Methods for Senior High School**

Formulation of four-year curriculum planning for a high school band and orchestra program. Selection of repertoire, recruitment, scheduling, and continuation of topics begun in Me 313 as they apply to a high school program. Prereq: Me 313. (3)

**ME 337 Marching and Jazz Band Management**

Identification of major marching show design systems and their relative strengths and advantages; design of shows and charting of individual moves; selection of appropriate literature; design of lesson plans for individual marching sessions. Prereq: Me 242, 249, and Mutc 222. (2)

**ME 338 Jazz and Show Choir**

Study of jazz and show choir repertoire,

costuming, choreography, staging, sound equipment, jazz combo, and other issues pertinent to jazz and show choir programs at the high school level. (2)

ME 349 Philosophy of Music Education  
Philosophical, psychological, and pedagogical foundations of music education in the United States. Foundations for effective teaching and classroom management; personal philosophy of education. Prereq: senior standing and Educ 200. (3)

ME 350 Music in the Elementary School  
Objectives, methods, and techniques for designing and teaching a comprehensive general music curriculum in grades K-8. Emphasis on contemporary approaches to music education: Comprehensive Musicianship Program (CMP), Manhattanville Music Curriculum Project (MMCP), Orff, Kodaly, and Dalcroze. Prereq: Me 240, 249, Educ 270 or 215; Mutc 222, and admission to music education department. (3)

ME 351 Issues in Music Education  
Critical issues for the music educator not covered in other course work. Topics include discipline, parental group involvement, touring, musicals, and other extra-curricular activities. Prereq: Me 350. (3)

ME 395 Independent Study  
Individual research under departmental guidance. (1-3)

## Music: Ensemble

Large and small ensembles rehearse weekly and are featured in public performance at least once per semester. See Musical Organizations and Activities for attendance and enrollment requirements.

ENS 205 Women's Chorus  
Choral repertoire for women's voices. (1)

ENS 210 Conservatory Choir  
A cappella and accompanied SATB repertoire. Prereq: audition. (1)

ENS 225 University Orchestra  
Standard orchestral repertory from Baroque to 20th century. Prereq: audition. (1)

ENS 235 Jazz Orchestra  
Nine to seventeen players, including a complete rhythm section. Music of all jazz styles from 1920s to present. Prereq: audition. (1)

ENS 236 Jazz Combo  
Five to eight players including complete rhythm section. Prereq: audition. (1)

ENS 237 Vocal Jazz Ensemble  
Eight to sixteen singers. Survey of jazz and other popular music styles. Prereq: audition. (1)

ENS 238 Wind Ensemble  
Standard wind literature for groups of 12 and above. Prereq: audition. (1)

ENS 245 Principles of Collaborative Piano  
Collaborative performance skills for pianists. Prereq: piano major status and departmental approval. (1)

ENS 246 Practicum in Collaborative Piano  
(1)

ENS 250 Piano Ensemble  
Literature for two pianos and piano duet. Prereq: piano major status and departmental approval. (1)

ENS 275 Classical Guitar Ensemble  
Sight reading; literature for guitar duos, trios, and quartets; duos for voice/guitar, flute/guitar, etc. Prereq: departmental approval. (1)

ENS 276 Electric Guitar Ensemble  
Nine to seventeen players. Survey of all styles of guitar playing in an ensemble setting; emphasis on reading techniques. Prereq: departmental approval. (1)

ENS 280 Chamber Music  
String, piano, brass, wind, and percussion. Study and performance of representative literature. Prereq: departmental approval. (1)

ENS 285 Collegium Musicum  
Pre-classical repertoire; open to vocalists and instrumentalists. Prereq: audition. (1)

ENS 288 New Music Ensemble  
Study and performance of contemporary chamber music, written and/or improvised. Prereq: audition. (1)

## Music History and Literature

The Conservatory recommends that the four-semester sequence in music history be taken as follows: sophomore year Muhl 251 and 252; junior year, Muhl 253 and 254. However, 252 may be taken before 251.

**MUHL 205 Musics of the World's Peoples**  
The uses of music in cultures and societies of the non-Western world. No credit towards BM degree. (3)

**MUHL 220 Special Topics**  
Content varies. (1-3)

**MUHL 251 The History of Western Music I**  
European music before 1750. The Middle Ages: Gregorian chant; secular monophonic song; the rise and development of Medieval polyphony. The Renaissance: the development of sacred and secular polyphony by Franco-Flemish composers; the spread of Renaissance polyphony, especially to Italy and England; the rise of instrumental music. The Baroque: the origins of Baroque style and the birth of opera in Italy; vocal and instrumental music in Italy, Germany, France and England. Prereq: Mutc 122. (3)

**MUHL 252 The History of Western Music II**  
The history of European music from 1750 to 1900. The Classical Era: instrumental music (the concerto, symphony, sonata, and string quartet) and vocal music (opera and oratorio); the emergence of Classical forms and their culmination in the Viennese school. The Romantic Era: the development of the harmonic language of the 19th century; piano music; the art song; symphonic and chamber music; Romantic opera; Nationalism and its effect on music. Prereq: Mutc 122. (3)

**MUHL 253 The History of Western Music III**  
European and American classical music of the 20th century. The expansion and dissolution of tonality. National styles in France, Austria, Russia and elsewhere. Non-Western influences on Western classical music. Introduction to world music studies. Trends in American classical music. The American musical theatre. Recent experimental music. Prereq: Mutc 122, Muhl

252. (3)

**MUHL 254 The Music of America**  
Sacred music of colonial and federal New England, the rural south of the 19th century, and 20th-century contributions. Popular songs of the 19th and 20th centuries. Instrumental music, including marches, dance music, and ragtime. Jazz and its African roots. Prereq: Mutc 122. (3)

**MUHL 323 Music Editing and Research**  
The techniques and resources of musicological research: examination of reference works, periodicals, editions of music, textbooks, and other musicological works; exploration of contemporary issues in musicology. Prereq: Muhl 251-253. (3)

**MUHL 326 Performance Practice 1600 to 1800**  
Ideas and conventions associated with the performance of older music, specifically that of the 17th and 18th centuries. Begins with the vocal "Seconda Prattica" and its instrumental outgrowths and continues through the music of Haydn and Mozart, highlighting stylistic changes that relate to composition and performance through study of important documents and instructional materials from the periods. (3)

**MUHL 327 Performance Practice Since 1800**  
Issues of performance practice from the beginning of the 19th century throughout the Romantic period until the age of recording. The ascendancy of legato as the chief mode of musical articulation will be introduced through works of Beethoven and Clementi, continuing to the early 20th century with early recordings of the music of Puccini and others. Prereq: Mutc 222 and Muhl 252. (3)

**MUHL 330 Keyboard Literature**  
Survey of literature for stringed keyboard instruments; emphasis on music for pianoforte, 1700 to present. Prereq: Mutc 222 and Muhl 251-253. (3)

**MUHL 331 Art Song Literature**  
Survey and style analysis of solo song literature. Topic varies by semester; course may be repeated for credit. Prereq: Mutc 222 and Muhl 252. (3)

**MUHL 334 Guitar Literature**  
The history and development of the guitar, lute, and vihuela, and the repertoire of each instrument, from the Renaissance to the

present time. Cultural/historical background; performance practice; tuning and tablature; solo, chamber, and pedagogical literature and transcriptions. Prereq: Muhl 251. (3)

#### MUHL 337 Orchestral Literature I

Stylistic and structural survey of symphonies, concertos, suites, overtures, and other orchestral works from circa 1730 to 1900. Prereq: Mutc 222 and Muhl 252-253. (3)

#### MUHL 338 Orchestral Literature II

Stylistic and structural survey of symphonies, concertos, suites, overtures, ballet music, and other orchestral works from circa 1900 to the present, including electroacoustic and/or improvisatory compositions and chamber orchestra works. Prereq: Muhl 337. (3)

#### MUHL 340 Music of Today

An examination of current trends in late modern and post-modern music. Prereq: Mutc 222. (3)

#### MUHL 343 Chamber Music Literature

Survey and style analysis of chamber music literature since the Renaissance. Topic varies by semester; course may be repeated for credit. Prereq: Mutc 222, Muhl 252-253. (3)

#### MUHL 345 History of Opera

Development of opera from its inception to the present. Concentration on major works in each era. Prereq: Muhl 251-253. (3)

#### MUHL 366 World Music

Folk and traditional music. Non-Western classical music. Music in its cultural contexts: religion, society, history. Prereq: Mutc 222. (3)

#### MUHL 386 Overview of Music 1750 to 1900

Harmonic practice and historical overview of music in the late 18th and 19th centuries and their relationship to musical form and style. (2)

#### MUHL 395 Independent Study

Individual research under departmental guidance. Prereq: consent of instructor. (1-3)

## Music: Jazz Studies

#### JAZZ 209 Introduction to Afro-Cuban Percussion

Performance techniques of the family of percussion instruments intrinsic to the realization

of folkloric and popular Afro-Cuban rhythms and related musical styles. Historical overview of Afro-Cuban music and the "latin" musical styles marketed as Salsa and Afro-Cuban jazz. (2)

#### JAZZ 210 Jazz Theory I

Jazz chord structures and related nomenclature; basic voicing concepts; chord/scale relationships; jazz chord progressions. Prereq: Mutc 122 and Applied Music 272. (2)

#### JAZZ 211 Essentials of Jazz I

Introduction to the originators and innovators of jazz style. Historical overview and in-depth style analysis. (2)

#### JAZZ 212 Essentials of Jazz II

Continuation of 211. Prereq: 211. (2)

#### JAZZ 215 Jazz Theory II

Continuation of Jazz 210 to include advanced harmonic structures, scale forms, and chord progressions, larger harmonic units and jazz forms; sources of chromaticism in jazz improvisation. Prereq: Jazz 210. (2)

#### JAZZ 220 Skills for Jazz Vocalists I

Introduction to singing in the commercial jazz idiom. Basic microphone technique and amplified vocal production; creation of lead sheets; transpositions and chord symbols; introduction to basic swing and ballad styles; survey of historically significant solo jazz vocalists. Prereq: consent of department. (2)

#### JAZZ 221 Skills for Jazz Vocalists II

Continuation of Jazz 220. Issues of vocal pedagogy; vocal hygiene; phrasing and lyric interpretation; the rhythm section; performance practices in live jazz and other contemporary styles; survey of historically significant vocal jazz ensembles. Prereq: Jazz 220. (2)

#### JAZZ 225 Vocal Jazz Performance Class

Required of vocal jazz majors. Development of stage presence, interpretive abilities, and technique through performance for peer audience and department faculty. Meets weekly. (0)

#### JAZZ 240 Conducting Jazz and Contemporary Music

Conducting techniques for instrumental and vocal jazz ensembles, including basic patterns

and use of the left hand. Odd meters; the click track. Rehearsal techniques; programming; concert production. Prereq: Mutc 222. (2)

**JAZZ 243 Jazz Piano Techniques I**  
Functional jazz keyboard techniques for non-pianists. Major and blues scales. Seventh chords, comping, improvisation, harmonic continuity, melody, and accompaniment. Standard song forms; blues. Prereq: Mutc 122. (2)

**JAZZ 244 Jazz Piano Techniques II**  
Continuation of Jazz 243. Major and minor scale etudes, modes, chord voicing (seventh, ninth, and thirteenth chords), advanced comping. Self-teaching tools for improvisation and composition. Prereq: Jazz 243. (2)

**JAZZ 250 Introduction to Music Business**  
Overview of business-related aspects for the music career. Unions, contracts, copyrights, marketing, commercial music production, the recording industry. (2)

**JAZZ 301-302 Improvisation**  
Advanced intensive private study of improvisatory technique. Prereq: Jazz 203 or preceding course in sequence. (2)

**JAZZ 305 Composition and Arranging I**  
Form, structure, melody, rhythm and harmony in jazz and other contemporary forms. Scoring techniques for standard jazz ensembles. Prereq: Jazz 215. (3)

**JAZZ 306 Composition and Arranging II**  
Continuation of 305 to include development of individual style. Prereq: 305. (3)

**JAZZ 360 Jazz Pedagogy**  
Examination of available textbooks, methods and other training materials, and representative curricula; rehearsal techniques; conducting frames and related techniques; programming; concert production. Prereq: Applied Music 372. (2)

**JAZZ 395 Independent Study**  
Individual research under departmental guidance. Prereq: consent of department. (1-3)

## Music Pedagogy

**MPE 359 Introduction to Vocal Pedagogy**  
Physical processes in voice production:

stance and posture, respiration, phonation, resonance, and articulation. Psychological and acoustical considerations; diagnostic and corrective procedures; group and individual instruction in establishing basic techniques. Demonstration lessons given by voice faculty. Prereq: Voi 312. (2)

**MPE 361 Piano Pedagogy I**  
Introduction to the principles of piano teaching, beginning to intermediate levels. Focus on practical matters such as surveying currently available piano methods and thorough study of pedagogy collections by major classical composers (J. S. Bach, Bartok, Kabalevsky, and others). Discussion of development and learning theories as well as competing educational philosophies. Additional topics include musicianship at the piano, the teen beginner, the adult beginner, teaching gifted children, teaching children with disabilities, and the business of teaching. Prereq: Piano 214. (3)

**MPE 362 Piano Pedagogy II**  
Issues of teaching piano to intermediate- and early-advanced- level students. Study of solo repertoire, etudes and technical exercises, and ensemble music suitable for students at these levels. Additional topics include adolescent and adult psychology, development, and learning theories. Students will be observed and videotaped in teaching situations with evaluation by the instructor. Prereq: Mpe 361. (3)

**MPE 365 Guitar Pedagogy**  
Introduction to teaching classical guitar technique and musicianship. Topics include sitting and hand positions; principles of fingering; comparison of various schools of technique; practice and memorization strategies; selecting appropriate repertoire; prevention of physical injuries. Survey of pedagogical materials. Prereq: Guit 312. (3)

## Music: Performance

**PERF 099 Performance Attendance**  
Attendance at theatre and music performances in the Chicago College of Performing Arts. Required of undergraduate music majors for six semesters. Grade P/F. (0)



**PERF 101 Beginning Voice**

Introduction to correct use of human voice in singing, with emphasis on physiology, proper breathing, articulation, phonation, enunciation, and beginner's voice literature. Prereq: Mutc 100 or consent of instructor. (1-3)

**PERF 116 Vocal Training and Ensemble for Musical Theatre**

Introduction to vocal technique and group performance in the musical theatre idiom. Open to musical theatre majors only. (1)

**PERF 215 Advanced Studies in Rhythm and Intonation**

Intensive study of principles and practices of rhythm and intonation as they apply to successful ensemble performance. Integration of body movement, verbalization, pulse control, analysis. Just intonation. Application of skills in small and large ensemble settings. (2)

**PERF 221 English Diction**

Development of proper English enunciation skills for singing through study of language and repertoire. Introduction to the International Phonetic Alphabet. (1)

**PERF 222 Italian Diction**

Development of proper Italian enunciation skills for singing through study of language and repertoire. Continued use of the International Phonetic Alphabet. (1)

**PERF 223 German Diction**

Development of proper German enunciation skills for singing through study of language and repertoire. Continued use of the International Phonetic Alphabet. (1)

**PERF 224 French Diction**

Development of proper French enunciation skills for singing through study of language and repertoire. Continued use of the International Phonetic Alphabet. (1)

**PERF 230 Keyboard Studies I**

Introduction to functional skills that are essential for the pianist. Focus on sight-reading and transposition. Prereq: Piano 211 concurrent, or consent. (2)

**PERF 231 Keyboard Studies II**

Continuation of 230. Focus on score reading of choral and instrumental music. Prereq: Perf 230. (2)

**PERF 232 Keyboard Studies III**

Continuation of 231. Focus on improvisation, creating accompaniments, and practical applications for theoretical concepts (e.g., figured bass and continuo realization). Prereq: Perf 231. (2)

**PERF 250 Gospel Choir**

Styles, techniques, literature, and historical development of gospel music performance practices. Culminates in a public performance. Open to nonmusic majors. (3)

**PERF 260 Jury Examination: Woodwinds (Freshman)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 211 or 212. (1)

**PERF 261 Jury Examination: Brass (Freshman)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 211 or 212. (1)

**PERF 262 Jury Examination: Strings (Freshman)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 211 or 212. (1)

**PERF 263 Jury Examination: Percussion (Freshman)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 211 or 212. (1)

**PERF 264 Jury Examination: Woodwinds (Sophomore)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 213 or 214. (1)

**PERF 265 Jury Examination: Brass (Sophomore)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 213 or 214. (1)

**PERF 266 Jury Examination: Strings (Sophomore)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 213 or 214. (1)

**PERF 267 Jury Examination: Percussion (Sophomore)**

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 213 or 214. (1)

PERF 299 Curricular Practical Training - Music Authorization granted to student in F-1 status for part-time employment integral to the curriculum and directly related to the major. Prereq: consent of director, department chair, and DSO. (0)

PERF 301 Study and Performance of Orchestral Excerpts

Intensive study of orchestral excerpts with emphasis on preparation for professional auditions and principles of orchestral and chamber ensemble performance. For orchestral studies majors. Jury examination required. Prereq: junior standing and Major Instrument 214. (1-2)

PERF 302, 303, 304 Study and Performance of Orchestral Excerpts

Intensive study of orchestral excerpts with emphasis on preparation for professional auditions and principles of orchestral and chamber ensemble performance. For orchestral studies majors. Jury examination required. Prereq: junior standing and Major Instrument 214. (1-2)

PERF 305 Audition Workshop

Performance of required repertoire for a jury of faculty in a formal audition setting. Prereq: junior standing and admission to orchestral studies major. (2)

PERF 310 Orchestral Seminar

Preparation for a career as an orchestral musician. Issues may include ethics of professional life; organizational governance and committee structures; contracts; self-promotion and professional management; physical and psychological aspects of injury prevention; commercial music opportunities; principles of orchestral and chamber music performance. Prereq: Applied Instrument 214 or graduate standing. (1)

PERF 315 Career Seminar for Singers

Presentation and discussion by resident and guest faculty on issues relevant to professional singers; vocal and physical health; professional development; production skills; and foundations of interpretation. (1)

PERF 316 Opera, Operetta, and Musical Theatre Workshop

Formal operatic character study and audition workshop for advanced undergraduate and graduate students. Coaching and staging of

scenes and arias or complete works, culminating in a public performance each semester. Prereq: Voi 214 or graduate standing and one year of Perf 216. (1)

PERF 317 Career Seminar for Pianists

Presentation/discussion by resident and guest faculty on issues relevant to the professional pianist. Prereq: Piano 312. (1)

PERF 320 Orchestral Excerpts Jury/ Undergraduate

Performance of orchestral excerpts for a panel of department faculty. Prereq: concurrent enrollment in Perf 301, 302, 303, or 304. (1)

PERF 360 Jury Examination: Woodwinds (Junior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 311 or 312. (1)

PERF 361 Jury Examination: Brass (Junior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 311 or 312. (1)

PERF 362 Jury Examination: Strings (Junior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 311 or 312. (1)

PERF 363 Jury Examination: Percussion (Junior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 311 or 312. (1)

PERF 364 Jury Examination: Woodwinds (Senior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 313 or 314. (1)

PERF 365 Jury Examination: Brass (Senior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 311 or 312. (1)

PERF 366 Jury Examination: Strings (Senior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enrollment in Applied Music 311 or 312. (1)

PERF 367 Jury Examination: Percussion (Senior)

Performance of repertoire for a panel of department faculty. Prereq: concurrent enroll-

ment in Applied Music 311 or 312. (1)

## Music Theory and Composition

The musicianship core is a four-semester sequence of courses in which the basic vocabulary and structures of music are studied through aural and written analysis, sight-singing, composition, ear-training, and practice at the keyboard. Each level is taught by members of the theory and keyboard departments in an integrated setting, where development in each area simultaneously reinforces and promotes development in the other. Examples and materials are drawn from a variety of tonal styles. Students must complete all courses in a level before taking any courses in the next level.

**MUTC 100 Fundamentals of Music**  
Melody, rhythm, and metric notation. Writing, playing, and singing of intervals, scales, triads, and melodies. Development of basic musical terminology. Open to nonmajors. Required of all students not sufficiently prepared for Musicianship I. No credit toward BM or BA in music degrees. (3)

**MUTC 107 Guitar Harmony I**  
Fingerboard harmony, including intervals, chord inversions, and resolutions in all positions. Designed for guitar majors. Prereq: Mutc 122. (1)

**MUTC 121 Musicianship I**  
All sections must be taken concurrently.  
Section A Written: Analysis, harmonization, composition using primary triads and dominant seventh in all positions; basic principles of voice leading, counterpoint, melodic organization; non-chord tones. Prereq: by placement. (2)  
Section B Aural: Melodic, harmonic, and contrapuntal dictation and sight-singing using primary triads and dominant seventh in all positions and non-chord tones; aural identification of intervals within the octave and basic triad types in all positions. Prereq: by placement. (1)  
Section C Keyboard: Keyboard studies for non-piano majors. Emphasis on solo and ensemble

repertoire, sight-reading, and reinforcement of musical materials covered in Sections A and B. Prereq: by placement. (2)

**MUTC 122 Musicianship II**  
All sections must be taken concurrently.  
Section A Written: Analysis, harmonization, composition using secondary triads and all diatonic sevenths; basic chromaticism (secondary dominant and diminished sonorities); modulation to closely related keys. Prereq: Mutc 121 A-C. (2)  
Section B Aural: Aural identification of compound intervals and basic seventh chord types; melodic, harmonic, and contrapuntal dictation, and sight-singing derived from musical materials of Section A. Prereq: Mutc 121 A-C. (1)  
Section C Keyboard: Continuation of 121C. Prereq: Mutc 121 A-C. (2)

**MUTC 125 Musicianship for Musical Theatre**  
Development of aural and analytical skills related to the study and performance of standard musical theatre repertoire. Prereq: Mutc 100 or placement. (3)

**MUTC 126 Keyboard Skills for Musical Theatre**  
Development of keyboard skills related to the study and performance of standard musical theatre repertoire. Prereq: Mutc 100 or placement. (2)

**MUTC 171 Introduction to Electroacoustic Technology**  
Elementary principles of electronic sound reinforcement, recording and playback devices, desk-top computer music applications, MIDI and synthesizers. (2)

**MUTC 207 Guitar Harmony II**  
Continuation of Mutc 107. Special emphasis on harmonization of melodies, sight reading, and score reading. Prereq: Mutc 107 and 221. (1)

**MUTC 211 Composition I**  
Elements of smaller forms of composition emphasizing motivic transformation, rhythmic organization, and structural principles. Class performance of students' original works. Prereq: Mutc 100 or consent of instructor. (3)

**MUTC 212 Composition II**  
Continuation of Mutc 211. One-hour weekly lecture and thirty-minute individual lesson

with instructor. Prereq: Mutc 211 or preceding course in sequence. (3)

MUTC 213, 214, 311-314 Composition III-VIII  
Private lessons and seminar. Emphasis on students' original work. Prereq: Mutc 212 or preceding course in sequence. (2-4)

MUTC 221 Musicianship III  
All sections must be taken concurrently.  
Section A Written: Analysis, harmonization, composition using chromatic harmony; basic principles of formal analysis; modulation to distant keys using chromatic and enharmonic processes. Prereq: Mutc 122 A-C. (2)  
Section B Aural: Melodic, harmonic and contrapuntal dictation and sight-singing derived from musical materials of 221A. Prereq: Mutc 122 A-C. (1)  
Section C Keyboard: Continuation of Mutc 122C. Prereq: Mutc 122 A-C. (2)

MUTC 222 Musicianship IV  
All sections must be taken concurrently.  
Section A Written: Styles and materials of 20th-century music including expanded scalar and harmonic resources of Impressionism, advanced rhythmic and pandiatonic processes of Primitivism and Neoclassicism, free atonal procedures of Expressionism, and serial procedures of the Second Viennese School. Emphasis on stylistic analysis and imitative composition. Prereq: Mutc 221 A-C. (2)  
Section B Aural: Melodic, rhythmic, and contrapuntal dictation and sight-singing derived from musical materials covered in Mutc 222A. Prereq: Mutc 221 A-C. (1)  
Section C Keyboard: Continuation of Mutc 221C. Prereq: Mutc 221 A-C. (2)

MUTC 225 Composition Seminar  
Required of all students registered for private composition lessons. Meets weekly; student, guest, and faculty presentations and discussions. (0)

MUTC 300 Baroque Counterpoint  
Baroque contrapuntal forms and technique with emphasis on works of Bach. Analysis and written exercises. Traces influence and application of 18th-century contrapuntal practice to later musical styles. Prereq: Mutc 222. (3)

MUTC 301 Instrumentation/Orchestration  
Study of orchestral instruments, their charac-

teristics and technical capabilities. Analysis of traditional and contemporary orchestral and chamber music; orchestral techniques. Readings of students' orchestrations in class. Prereq: Mutc 222. (3)

MUTC 305 Form and Analysis  
Forms, structures, and styles of selected works from 18th through the 20th century. Emphasis on the origins and evolution of organizational approaches. Introduction to Schenkerian analysis and other current trends in music theory. Prereq: Mutc 222; Eng 102. (3)

MUTC 307 Advanced Orchestration  
Scoring for various ensembles; emphasis on larger groups. Study of representative contemporary scores. Prereq: Mutc 301. (3)

MUTC 308 16th-Century Vocal Polyphony  
Study of contrapuntal practice based on the sacred music of Palestrina and other late 16th-century composers. Emphasis on practical exercises. Prereq: Mutc 222 and Muhl 251. (3)

MUTC 371 Fundamentals of Electroacoustic Composition  
Development of techniques in electroacoustic music composition and performance. Lab work required. Prereq: Mutc 171 or consent of instructor. (2)

MUTC 372-378 Electroacoustic Music II-VIII  
Private lessons and seminar. Development of advanced techniques in electronic music composition/performance and programming. Lab work required. Prereq: Mutc 371 or preceding course in sequence. (2-4)

MUTC 380 Musicial Perception  
Introduction to physics of sound and tunings; acoustical properties of musical instruments and rooms; physiology of hearing; and psychophysics of sound. Prereq: Mutc 222. (3)

MUTC 395 Independent Study  
Individual research under departmental guidance. Prereq: consent of department. (1-3)

## Organizational Leadership

OLED 320 Introduction to Organizational Communication  
Communication theory in the business

environment; communication issues internal and external to an organization. Topics include communication theory, organizational structure, barriers to communication, gender, and diversity. Also available over the Internet through RU Online. (3)

**OLED 325 Organizational Communication II**  
The changing corporate environment, strategic communication, corporate image, internal communication, and crisis communication. Students make managerial decisions through case study analysis and develop a phased plan to deal with the immediate communication issues as well as to strengthen corporate communication over time. Also available over the Internet through RU Online. Prereq: Oled 320. (3)

**OLED 330 Foundations of Organizational Leadership**  
Fundamental concepts for leaders, such as demographic diversity, technology, the era of human capital, business consolidation in a time of globalization, communication in a global economy, as well as specific leadership traits. Students analyze their own leadership qualities as they study changing organizational models and changes in leadership demands. Also available over the Internet through RU Online. (3)

**OLED 335 Organizational Change**  
The processes through which organizations change and evolve in order to stay competitive in a rigorous business environment. How effective changes are managed successfully; agents of change, planning, communication, employee morale, barriers to change, and measuring outcomes. Also available over the Internet through RU Online. (3)

**OLED 350 Decision-Making and Group Dynamics**  
Why organizations form work groups and how they evolve into effective decision-making teams in the workplace. (3)

**OLED 355 Innovation and Technological Change**  
The major types of information technology; the relationship of technological innovation to organizational change; the management of technical personnel; knowledge management; and mechanisms both for adapting new tech-

nologies and for adapting the workforce to use these technologies efficiently. Also available over the Internet through RU Online. (3)

**OLED 365 Diversity in the Workplace**  
The opportunities and challenges presented to leaders by diverse stakeholders including customers, employees, and community members. Diversity is defined as the process of recognizing, understanding, valuing, and utilizing differences such as national origin, gender, race, age, sexual orientation, religion, physical ability, thinking style, and working style. Also available over the Internet through RU Online. (3)

**OLED 370 Development and Succession Planning**  
Leadership qualities; development plans; developmental action items; fast tracking high potential employees; diversity; redirecting underperformers; basic succession planning design; impact on hiring, retention, and the bottom line. Also available over the Internet through RU Online. (3)

**OLED 375 Conflict Resolution and Negotiation**  
The role of conflict in organizations. A process-based approach to successfully navigating issues of conflict and negotiation; development of observational skills. Also available over the Internet through RU Online. (3)

**OLED 378 Power and Influence**  
Reflect on the meaning of power with history's great thinkers; explore how power is expressed and used in organizations; and learn how to spot a power play. Also available over the Internet through RU Online. (3)

**OLED 380 Strategy, Vision, and Planning**  
Strategic planning and its implementation can be a major factor in the success or failure of any organization. Leadership is key to developing and communicating a vision that drives this process. An examination of strategic planning and leadership and their roles in maintaining competitiveness in organizations. Also available over the Internet through RU Online. Prereq: Oled 320, Oled 325. (3)

## Paralegal Studies

**PARA 301 Ethics and Professionalism**  
Regulation of the legal profession, including the rules of conduct that govern legal

assistants. The meaning and importance of the unauthorized practice of law; the attorney-client privilege and its related work product doctrine; the doctrine of confidentiality; conflicts of interest. Law office management; conflicts of interest check system; law office calendar; billing procedures; fee arrangements; client trust accounts; filing systems; documenting the file. Preparation of a client manual, letters to clients, and law office memoranda. Also available over the Internet through RU Online. (3)

#### PARA 302 Legal Research

Research tools of the law library; proper citation to the various legal authorities. Tort, contract, and general litigation; legal reasoning; legal argumentation. Online research using both computerized legal databases and the Internet. Significant in-class time in the law library and in the computer lab with the instructor. (3)

#### PARA 303 Civil Law

Torts, property, wills and trusts, domestic relations, intellectual property, and employment. Current legal events. Case briefs and other written exercises/analyses. (3)

#### PARA 304 Pre-Trial Litigation

The pre-trial litigation process in civil matters. Client and witness interviews; factual investigations; jurisdiction; pre-trial motions; litigation strategy; administrative remedies and procedures; evidence for use at trial; depositions; written discovery; review of documentation. Federal and Illinois Rules of Civil Procedure and local court rules. (3)

#### PARA 305 Commercial Law

Law of contracts; law of business organizations; commerce clause; business ethics; bankruptcy law; the law of agency; and anti-trust and securities law. (3)

#### PARA 306 Trial and Post-Trial Litigation

Law of Evidence; preparation of a case for trial; the trial process; and the post-trial issues; exhibits, subpoenaing and contacting witnesses; preparing witnesses for testimony; trial briefs; motions to exclude evidence; and jury instructions; taking notes at trial. Post-trial procedures including motions and how to enforce a judgment. (3)

#### PARA 309 Real Estate

Residential and commercial real estate transactions. Various estates in real property, including freehold estates, easements, and licenses; various methods of holding title to property; types of transfer deeds; surveys, plats, and subdivision maps. Legal descriptions of property; closing documentation; title search. Emphasis on the practical study of real estate law and transactions. (3)

#### PARA 319 Intellectual Property

Federal law regulating copyrights, trademarks, and patents; state law regulating trade secrets. Registration of a copyright; preparation of agreements used to protect trade secrets; and the selection, evaluation and registration of a trademark. The history of intellectual property, its Constitutional basis in the US and the common law; current laws of intellectual property; ways to protect intellectual property rights. Also available over the Internet through RU Online. (3)

#### PARA 323 Estates, Trusts, and Wills

Practical aspects of estate planning and estate administration. Basics of the legal principles involved in estate work. Review of theory, the laws of the State of Illinois, and the Federal tax laws with focus on the preparation of documents incident to an estate practice. Advantages and disadvantages of different estate forms and what forms are best for the particular situation at hand. (3)

#### PARA 324 Introduction to Law

Introduction to the responsibilities of the paralegal and the important role of the paralegal profession in today's American legal system. Fundamentals of laws concerning torts, family law, property, estate planning, administrative law, labor and employment, and intellectual property. Case briefs and other written exercises/analysis designed to increase the student's understanding of the subject matters. Students who successfully complete this course and who are later accepted into Roosevelt University's Lawyer's Assistant Program will be given credit toward one of the required courses. Available over the Internet through RU Online. (3)

#### PARA 325 Legal Writing

Grammar basics and the Uniform System of Citation. Written assignments ranging

from simple case briefs and business letters to a complex research memorandum that integrates research, analysis, and writing skills. Students draft legal documents during class and as outside homework assignments. Significant feedback from the instructor. (3)

#### PARA 326 Criminal Law

Overview of criminal justice process in the US. Investigation of a crime, arrest, charging offenses, arraignment, and the pre-trial and trial processes. Definitions of criminal offenses, parties to a crime, and responsibility for crime. Criminal procedures including privilege against self-incrimination, Miranda admonitions, sixth amendment right to counsel, and double jeopardy. Study of actual court cases. (3)

#### PARA 327 Business Organizations

Law and requirements of forming sole proprietorship, partnership, limited partnership, corporation, and a limited liability company. Illinois Business Corporation Act, Illinois Secretary of State corporate forms; what they mean, when to use them, and how to complete them in a timely manner for a client. Illinois Revised Uniform Limited Partnership Act and agency law as they apply to partnerships and corporations. (3)

#### PARA 328 Accelerated Legal Research and Writing

Combination of the topics from the program's traditional Legal Research and Legal Writing courses. Open to students who already have experience with legal research and writing concepts. A screening exam is required to determine eligibility. Students taking this course are not required to take the program's Legal Research and Legal Writing courses. Available over the Internet through RU Online. (3)

#### PARA 329 Legal Technology

Introduction to Microsoft software and legal software applications used in the law firm environment. Prereq: consent of department. (3)

#### PARA 330 Paralegal Internship

Practical work experience for the student intern under the supervision of an attorney in day-to-day, on-site paralegal work. Meetings with the program internship coordinator and a self-evaluation report on experiences during the internship. (3)

## Performance

(See Music: Performance)

## Philosophy

#### PHIL 201 Introduction to Philosophy

Basic philosophical questions in metaphysics, theory of knowledge, political theory, ethics, and philosophy of religion. Representative answers to be found in writings of classical and contemporary philosophers. (3)

#### PHIL 204 Introduction to Religious Studies

The concepts of God, faith and reason, religious experience, the problem of evil, and religion and morality. Prereq: Phil 219. (3)

#### PHIL 205 Introduction to Political Theory

Evolution of political thought and ideology from ancient Greeks to present. Emphasis on vital contemporary issues, such as relation of theory to power in modern world. See Pos 202. (3)

#### PHIL 206 Philosophy in Literature

Philosophical problems found in selected novels, short stories, plays, poems, and essays. (3)

#### PHIL 209 Critical Thinking

Practical training in informal analysis and evaluation of arguments encountered in everyday events. (3)

#### PHIL 210 Logic

Deductive and inductive logic; analysis of propositions and arguments and fallacies of reasoning. (3)

#### PHIL 219 World Religions

A survey of the histories and beliefs of the major world religions, including Hinduism, Buddhism, Judaism, Christianity, and Islam. Satisfies non-Western requirement. (3)

#### PHIL 220 Buddhism

The origins of Buddhism in Hinduism and their social impact in ancient India; the development of schools and the split between Theravada, Mahayana, and Vajrayana (Tibetan) Buddhism; modern Buddhist sects, their beliefs and practices. Satisfies non-Western requirement. (3)

**PHIL 230 Ethics**

Classical ethical systems such as those of Plato, Aristotle, Hume, Kant, Mill, and Nietzsche. (3)

**PHIL 255 History of Philosophy**

A survey of major philosophers and philosophical movements from the ancient world through the 19th century. (3)

**PHIL 321 Contemporary Political Thought**

Contemporary political philosophies and ideologies, including liberalism, conservatism, fascism, nationalism, existentialism, and Marxism. Prereq: Phil 205 or consent. (3)

**PHIL 324 Politics and Literature**

A philosophical understanding of political life through the reading of literature. Topics may include oppression, tyranny, compromise, jealousy, friendship, equality, liberty, and justice. Prereq: one course in philosophy, political science, or literature. (3)

**PHIL 328 Philosophy of History**

The special nature of historical thinking and historical knowledge; how historical knowledge differs from scientific knowledge; some of the seminal works in the philosophy of history, especially those of the 20th century. (3)

**PHIL 329 Philosophy of Law**

Philosophic issues and theories concerning law, judicial process, justice, liberty, responsibility, and punishment. Prereq: one course in philosophy and one course in political science. (3)

**PHIL 331 Technology and Human Values**

Social and ethical implications of new technology; problems in contemporary environmental ethics. See Libs 331. Prereq: one course in philosophy. (3)

**PHIL 333 Business Ethics**

Relation of morality to business and professional practices; application of moral principles to cases in advertising, preferential hiring, worker safety, and environmental responsibility of corporations. See Mgmt 333. Prereq: one course in philosophy or consent of instructor. (3)

**PHIL 334 Biomedical Ethics**

Ethical issues involving mandatory genetic screening, cloning, abortion, the rights of patients and health care providers, disclosure

about experimentation, and the funding of health care and health care research. Prereq: one course in philosophy. (3)

**PHIL 340 Social and Political Philosophy**

Political philosophers such as Plato, Locke, and Marx or themes such as liberty, justice, and power. Prereq: one course in philosophy; Phil 205 recommended. (3)

**PHIL 341 Philosophy of Feminism**

Philosophical feminism from Plato to the present; focus on women and morality, women and knowledge; the ways in which philosophical thought has helped women find their own voices. (3)

**PHIL 342 Women and Religion**

Women's issues in five of the world's major religions. The way each of the religions has understood the nature and proper roles of women, the status of women within the each religion's worldview, and the role of women as leaders with each religion. Prereq: one course in philosophy or women's and gender studies. (3)

**PHIL 350 Philosophy in Film**

Philosophy through the medium of film. Topics may include appearance and reality, justice, political myths, friendship, violence, the individual and the community, the meaning of life, and love and sex. Readings and film(s) for each topic. Prereq: one course in philosophy or literature. (3)

**PHIL 360 Cosmology and Creation**

The implication of scientific theories of the origin and structure of the universe for religious ideas of divine creation. Emphasis on the modern period, especially contemporary big bang theory. See also Libs 360. Prereq: senior standing and UWR. (3)

**PHIL 380 Studies in Modern and Contemporary Philosophy**

Detailed analysis of a major movement, problem, work, or future in modern or contemporary philosophy. Prereq: Phil 255 or consent of instructor. (3)

**PHIL 395 Independent Study**

Study of a particular philosopher, movement, or problem. Prereq: consent of instructor. (3)



**PHIL 399 Senior Research Project**  
A research project in the student's area of concentration done under the direction of the area advisor or another appropriate faculty member. Prereq: senior standing and consent. (3)

## Physics

**PHYS 201 Mechanics and Heat**  
Measurement and experimental error; kinematics and dynamics of a particle; energy, momentum, and their conservation; kinetic theory and heat. Lectures and laboratory. Prereq: Math 122. (5)

**PHYS 202 Electromagnetism and Optics**  
Ray and wave optics; static and current electricity; electric and magnetic fields; electromagnetic radiation. Lectures and laboratory. Prereq: Phys 201. (5)

**PHYS 231 Mechanics and Thermodynamics**  
Empirical analysis of experimental data; kinematics and dynamics of a particle; energy, linear momentum, angular momentum, and their conservation; gravitation; heat and introductory thermodynamics. Lectures and laboratory. Prereq: Math 231. (6)

**PHYS 232 Waves, Light, and Electromagnetism**  
One- and two-dimensional waves; geometrical and physical optics; electric field and potential; steady state and transient DC circuits; magnetic field, Faraday's Law, electromagnetic waves. Lectures and laboratory. Prereq: Phys 231 and Math 232. (6)

**PHYS 322 Optics**  
Lecture and experiments in geometrical and wave optics; lasers. Prereq: Phys 365 or 366 or concurrent. (3)

**PHYS 365 Applied Analog Electronics**  
Implementation of solid state analog devices in electronic circuits, especially op-amps, and the analysis of such circuits. Lectures and laboratory. Prereq: Math 121. (3)

**PHYS 366 Applied Digital Electronics**  
Implementation of TTL small- and medium-scale digital integrated circuits. Lectures and laboratory. Prereq: Math 245 or consent. (3)

**PHYS 390 Topics in Advanced Physics**  
(1-3)

**PHYS 395 Independent Study in Physics**  
Prereq: consent of instructor and school. (1-3)

## Political Science

American Politics

Students enrolling in 300-level courses should have taken Pos 101.

**POS 101 United States Politics**  
The processes and functions of US governmental institutions; Constitutional framework; relationship between politics and the economy; relationship between the states and the national government; political culture; participation and representation; contemporary public policy problems. (3)

**POS 241 Environmental Problems of Metropolitan Areas**  
Historical, interdisciplinary approaches to understanding environmental problems in metropolitan areas. Includes historical issues; economics of environmental decision making; environmental issues that require coordination between local, state, and federal agencies; environmental policy as it relates to metropolitan areas. See Libs 241. Prereq: UWR. (3)

**POS 245 City and Citizenship**  
History, political economy, and architecture of US cities; historical and philosophical debates about citizenship and democracy. Urban processes and institutions that make for broader sociopolitical stability and change. Field placement in an organization with a mission of social justice may be arranged with the instructor for 1-3 credits. See Svl 245. Prereq: UWR. (3)

**POS 260 Ethnicity in North American Cities**  
Temporal and spatial survey of North American cultural borders. Interdisciplinary perspective on ethnicity and national identity in North American cities. May be used to fulfill a signature course. See Hist/Libs 260. Prereq: UWR. (3)

**POS 301 Introduction to Public Administration**  
Overview of field and profession of public administration. Survey of social and historical

environment of public agencies. See Padm 300. (3)

POS 312 The Politics of Lesbian and Gay Communities in the United States  
Historical development and impact of the lesbian, gay, bisexual, transgender, and queer movement in the US from WWII to the present; issues, debates, and organizing that constitute the LGBTQ movement today; the place of sexuality and how it intersects with class, gender, and racial dynamics, in contemporary US culture and politics. Prereq: Pos 101. (3)

POS 327 Sexuality, Gender, and International Human Rights  
Contemporary issues of gender and sexuality in international human rights theory, law, and practice. Prereq: Pos 201. (3)

POS 336 Urban Gentrification  
The political, economic, and cultural forces that are remaking working-class residential neighborhoods and commercial areas into places for higher-income, usually lighter-skinned newcomers from the professional middle class. Prereq: Pos 101 and 245 or consent of instructor.(3)

POS 340 The United States Presidency  
Contemporary and historical perspectives on the presidency. Elements of presidential power; presidential selection; politics of the presidency; presidential personality; president and media; relations of president with courts, Congress, and bureaucracy. See Libs 340. Prereq: Pos 101, 203. (3)

POS 351 Politics of Chicago  
Relation of City of Chicago, State of Illinois, forms of local government, party machines, judicial organization; interrelationships between Chicago politics and reform movements. Prereq: Pos 101. (3)

POS 353 Cyberpolitics  
Impact of the Internet on politics in the US; how the Internet has affected the political players that dominated pre-Internet politics; where and how American citizens fit in the information age; the possibility of the US moving toward direct democracy; "netactivism." Students develop their own web sites to increase public awareness concerning an issue. Prereq: Pos 101. (3)

POS 355 The 2004 Election  
Discussion of the 2004 presidential election, the primary system, and the political processes that will elect the country's president. (3)

POS 359 Economics of Environmental Policy  
Economic analysis as a tool for examining environmental policy. Alternative methods of addressing problems such as air pollution, acid rain, hazardous waste disposal, and water pollution. Current environmental regulations evaluated from an economic perspective. Prereq: Econ 102. (3)

POS 362 Urban Politics  
Historical development of political economy of major cities; political institutions and participation; changing conceptions of urban crisis; contemporary issues, especially economic development; study of community power. Pos 245 recommended. Prereq: Pos 101. (3)

POS 363 Urban Policy  
Policies and policy-making processes at all levels of government that shape quality of life in metropolitan areas; relationship between political and market processes; class, gender, racial, and regional consequences of different policies. Pos 245 recommended. Prereq: Pos 101. (3)

POS 365 Suburban Life and Politics  
Development of suburbs and the related decline of the nation's big cities from the 19th century to the present; the character of suburban life; role of government policies; racism and American values. Current suburban problems such as crime, traffic congestion, and sprawl. See Libs 365. Prereq: UWR. (3)

POS 366 Local Government Law  
Legal issues relating to governmental structure; intergovernmental relations; provision of governmental service; citizen participation in government decision making. Prereq: Pos 101 or Padm 300. (3)

POS 367 Social Movements  
Central analytical problems in the study of social movements; dynamics and significance of social movements in contemporary US politics and society. Prereq: Pos 101 or 203. (3)

POS 372 Issues in the Development and Administration of Public Policy  
Interaction of policy making and implementation; selected issues in public policy; impact of politics on administration. Prereq: Pos 101. (3)

POS 374 Constitutional Law: Principles and Comparative Traditions  
Law as an idea; Eastern and Western concepts of law; various natural law, positive law, civil law, and common law traditions. Prereq: Pos 101 and 203. (3)

POS 375 Constitutional Law: American Jurisprudence  
Theoretical and historical foundations of American constitutionalism; creation, development, and evolution of the American judicial and legal tradition. Prereq: Pos 101 and 203. (3)

POS 376 Constitutional Law: Special Topics  
Continuation of the major themes addressed in Pos 375. Topics may include freedom of expression, the right to privacy, federalism, state constitutions, or other related areas. Prereq: Pos 375. (3)

POS 377 Law and Judicial Process  
Contemporary topics within the American judicial and legal system. Topics may include judicial politics, civil rights and liberties, legislation, and the court system. Prereq: Pos 101. (3)

POS 378 Environmental Law  
Environmental statutes, executive orders, and judicial cases. Focus on major laws enforced in air, water, superfund, toxics, hazardous chemicals, wetlands, and endangered species in the US. Prereq: Pos 101. (3)

POS 384 Mexican-American Politics  
Mexican-American political movements; the institutional structures within which they have worked; political issues and ideologies of Mexican Americans in the US. Prereq: Pos 203. (3)

POS 385 Politics of African Americans  
Contemporary political development of African Americans; emphasis on the period from 1967 to the present. Prereq: Pos 101. (3)

POS 386 Politics of Latino Americans  
Special problems and potentials of Latino Americans in their interaction with US political system. Prereq: Pos 101. (3)

POS 391 AIDS: Science, Culture, Power  
Basic biology and epidemiology; the social construction of HIV infection and AIDS; responses of government, the private sectors, and different communities; cultural politics;

ethical issues. See Libs 391. Prereq: senior standing and UWR. (3)

Comparative Politics

Students enrolling in 300-level courses should have taken Pos 203.

POS 203 Introduction to Political Science  
Diverse governments and political systems; how to understand and compare them. Various methods for analyzing developing and industrialized countries. (3)

POS 243 Environmental Problems in Developing Countries and Tribal Lands  
The impact on indigenous peoples and tribal communities of a wide range of environmental issues. The role of poverty, consumption, democracy, and income on environmental problems in developing countries. Focus on geographical issues. Topics include fresh water, biodiversity loss, mining and disposal of nuclear materials in the US, transboundary shipments of hazardous waste, global warming, the ozone hole, deforestation, and desertification. Satisfies the non-Western general education requirement. (3)

POS 303 Democracy Around the World  
Democracy from a theoretical perspective; the process of transition to democracy from some other form of government; development and maintenance of a democratic government. Focus on nations in Eastern Europe, Asia, Africa, and Latin America that have most recently experienced democratization. Prereq: Pos 203. (3)

POS 306 Political Development and Developing Nations  
Survey of modernization, development, and political, economic, and social change. Relation between domestic development and international factors using specific case studies. Prereq: Pos 203. (3)

POS 313 Western European Politics  
Political traditions, institutions, and mass movements of major European powers, including Great Britain, France, and Germany. Development of the European community. Prereq: Pos 203. (3)

POS 315 Politics of Eastern Europe  
Political systems of former Warsaw Pact nations, including Poland, Hungary, and the

Balkan states. The transition from centralized to free market economies. Prereq: Pos 203. (3)

#### POS 316 Latin American Politics

How Latin America and the US evolved along different historical paths politically, socially, and culturally; how the Latin American pattern shapes and constrains Latin American governments in the present. Common issues in Latin American politics and how different countries have addressed these issues. Prereq: Pos 203. (3)

#### POS 317 Mexican Politics and Government

How Mexicans behave politically. The evolution of culture in Mexico. History, geography, values, ethnicity, religion, and internal and external relations of Mexico. How the social, political, and economic differences between the US and Mexico affect the relationship between these two neighboring countries. Prereq: Pos 203. (3)

#### POS 354 Middle East Conflict

Political institutions, ideologies, social structure, political elites, political culture, and process in Middle East. Emphasis on current inter-Arab conflicts and Israel-Arab confrontation, including Palestinian issue. Prereq: Pos 203. (3)

#### POS 356 Elections Around the World

Growing usage of and radical changes in elections throughout the world. Electoral laws; campaign strategies and tactics; media communications; and voter turnout. Two-thirds of the course will be devoted to studying elections outside the US. Prereq: Pos 203. (3)

#### POS 360 Modern History and Politics of China

Traditional China; impact of the West and its revolutionary consequences; Opium Wars; overthrow of Manchu Empire; Nationalist China; Chinese Communism; and Peoples Republic. Culture, social structure, and politics. Prereq: Pos 203. (3)

#### POS 361 Japan in the Modern World

Developments from commercial revolution of late 17th century to 20th century. Shaping of politics and knowledge that underlies modern transition of Japan. Prereq: Pos 203. (3)

#### POS 371 Modern and Contemporary Africa

The rise of nationalism; end of colonialism;

rise of neo-colonialism; Cold War influences; managing the problems of independence. See Afs 371 and Hist 371. Prereq: Hist 240. (3)

#### International Relations

Students enrolling in 300-level courses should have taken Pos 201.

#### POS 201 Introduction to International Relations

Major international problems of our day. Power; American foreign policy; problems in the Third World. Principles underlying international relations; reliable research resources. (3)

#### POS 302 Problems of United States Foreign Policy

Organization of US government for conduct of foreign policy. Case studies of military, economic, and political foreign affairs. Prereq: Pos 201. (3)

#### POS 304 Great Power Politics

Contemporary political relations between the world's leading powers; focus on the interplay between economic and security issues and the possibilities of cooperation. Prereq: Pos 201. (3)

#### POS 305 Imperialism

Development of capitalist world economy from 1815 to present. See Hist 305. Prereq: Hist 122 or consent of instructor. (3)

#### POS 310 Latin America in International Relations

Historical background, concepts, and debates in the evolution of Latin American foreign relations, especially with the US. The importance of inter-American relations. Current efforts of Latin American countries to expand their economic ties with countries within and outside the region. Prereq: Pos 203. (3)

#### POS 311 Regional Diplomacy

Political dynamics of four regions of the globe; presentations by representatives of eight foreign consulates located in Chicago. Prereq: Pos 201. (3)

#### POS 314 Globalization, Society, and Culture

Social, economic, political, and cultural systems that span nation-state borders. Current status of nationalism, nation-states, and the global economy; how cultural identities and communities are formed within the context

of global systems. Topics may include effects of world markets on economies and societies, transnational migration and social movements, indigenous groups' self-representation through global technologies such as video and the Internet, hybrid identities and "bifocal" cultural frameworks. See Anth/Soc 314. Prereq: Anth 240 or Soc 241 or six sem hrs in social sciences.(3)

**POS 325 Diplomatic History of the United States**

Development of American foreign relations from American Revolution to the present. Topics include manifest destiny and expansionism; imperialism of the 1890s, US rise to global power in the 20th century, and the end of the Cold War. Emphasis on diplomacy in the war on terror and contemporary foreign policy. See Hist 325. Prereq: Hist 106 or 107 or Pos 201. (3)

**POS 339 Political Violence and Terrorism**  
Definition of terrorism; distinction between terrorism and revolutionary warfare; the evolving nature of the threat including the potential use of weapons of mass destruction and cyberterrorism; theoretical writings. Focus on the history and current status of terrorism and political violence in the US. The trade-offs between civil liberties and security. (3)

**POS 343 Approaches to Peacemaking**  
Discussion of the international scene, various problem regions, and potential methods and processes to resolve conflicts.(3)

**POS 346 Theories of World Politics**  
Competing explanations of the most important issues in world politics, the causes of war, and the prerequisites and limits of international cooperation. Prereq: Pos 201. (3)

**POS 357 Global Environmental Politics**  
The state of the natural environment and the status of international efforts to address common environmental problems. What the record of global environmental cooperation indicates regarding the prospects for global governance. Prereq: Pos 201. (3)

**POS 380 International Law: Human Rights**  
Theoretical and institutional basis for a modern understanding of human rights and liberties. The philosophical justifications for a concept of human rights and the idea and

practice of international law as a whole. Prereq: Pos 202 and 203. (3)

**POS 387 International Law: Organization**  
Rules and principles that guide relations among nations and between governments and foreign nationals. Formal arrangements transcending national boundaries that facilitate cooperation among member states in security, economic, social, and other spheres of common concern. Prereq: Pos 201. (3)

**POS 388 War and Peace**  
Analysis of the continuing utility of military force in the contemporary international arena and alternative approaches to conflict resolution. Prereq: Pos 201. (3)

**POS 389 International Political Economy**  
Analysis of political impact on international trade, finance, and natural resources; decline in US hegemony vis-a-vis other industrialized states; conflict between First and Third World economies. Prereq: Pos 201. (3)

**Political Theory**

Students enrolling in 300-level courses should have taken Pos 202.

**POS 202 Introduction to Political Theory**  
Evolution of political thought and ideology from ancient Greeks to present; vital contemporary issues, such as relation of theory to power in modern world. (3)

**POS 321 Contemporary Political Thought**  
Writings of 20th-century political theorists on concepts central to the understanding of the activity of politics: authority, power, liberty, equality in rights, law, and government. Prereq: Pos 202. (3)

**POS 322 American Political Thought**  
Political ideas of selected American thinkers at critical moments in American history; relationships between their thought and the actions they supported. Prereq: Pos 202. (3)

**POS 323 Philosophy of the Social Sciences**  
Methods of social sciences. Basic assumptions, logical procedures, ethical or normative standards, and problem of value. Prereq: six sem hrs in social science or philosophy; Phil 210 recommended. Prereq: Pos 202. (3)

**POS 324 Politics and Literature**  
Works of literature that explore significant political themes, such as alienation, revolutionary movements, utopias, and anti-utopias and the development and expression of political, social, economic, religious, and philosophical ideas. Prereq: Pos 202. (3)

**POS 329 Philosophy of Law**  
Philosophic issues and theories concerning law, judicial process, justice, liberty, responsibility, and punishment. Prereq: one course in philosophy and one course in political science. Prereq: Pos 202. (3)

**POS 331 Marxism**  
Close reading of works of Marx, Engels, and Lenin to demonstrate integrated nature of Marxist theory. No prior knowledge of Marxism is required. Prereq: Pos 202. (3)

**POS 338 Internships in Politics and Law**  
Students work in Chicago-area political and legal organizations. Required paper based on relevant readings and analysis of work experiences. Early consultation necessary to arrange appropriate placement. Prereq: Pos 101 and consent of instructor. (3)

**POS 341 Gender, Law, and Politics**  
Liberal and radical feminist ideas in the areas of politics and law are compared, contrasted, and applied to a critical exploration of modern society. Prereq: Pos 202. (3)

#### Other Courses

**POS 290 The Research Process**  
Major data-gathering techniques in the social sciences; questionnaires, interviews, participant observation, and the use of official statistics. Basic statistical procedures used to analyze and interpret data; use of computers; emphasis on the preparation and writing of research reports. (3)

**POS 345 Introduction to Econometrics**  
Construction of econometric models; statistical testing of economic hypotheses; estimation of parametric values in economic relationships using regression analysis. Computer applications. Prereq: Econ 234 and 363 or consent of instructor. (3)

**POS 349 Atomic Bomb in History and Culture**  
Effects of atomic and nuclear weapons on our world and our thinking. Scientific, literary, moral, sociological, and psychological dimensions; political and strategic perspectives. Novels and films supplement scholarly treatments. See Libs 349. Prereq: senior standing and UWR. (3)

**POS 390 Special Topics**  
Course content varies. May be repeated. Prereq: varies; specific prerequisites will be listed in Class Schedule. (3)

**POS 395 Independent Study**  
Individual projects pursued under an instructor's supervision. Prereq: consent of instructor and director of School of Public Policy. (3)

#### Legal Studies

Students wishing to concentrate in legal studies should consider electives from among the courses listed below.

**POS 329 Philosophy of Law**

**POS 341 Gender, Law, and Politics**

**POS 374 Constitutional Law: Principles and Comparative Traditions**

**POS 375 Constitutional Law: American Jurisprudence**

**POS 377 Law and the Judicial Process**

**POS 380 International Law: Human Rights**

**POS 387 International Law: Organization**

## Psychology

All prerequisites must be completed before starting a course; they may not be taken concurrently. Course descriptions are suggestive of the course content but are not literal descriptions. Different instructors teaching the same course may emphasize different aspects of the subject.

**PSYC 103 General Psychology**  
Introduction to the study of human behavior from a scientific perspective including relevant theory and research. (3)

**PSYC 106 Forensic Science**

The application of scientific techniques for crime scene assessment, identification of criminal perpetrators, and making inferences regarding aspects of the activities or occurrences being investigated. (3)

**PSYC 108 Human Sexuality**

Sexuality from youth to old age, including the development of gender identity, sexual orientation, and sex roles. Review of the physiology and psychology of sexual arousal, adult sexual behavior in its many manifestations, and a brief introduction to sexual dysfunction. (3)

**PSYC 200 Introductory Statistics**

Quantitative methods for interpreting results of psychological research. Averages; variability concepts; correlation; reliability of basic statistical concepts, especially in relation to sampling problems. This course is a prerequisite to Psyc 270 and 307 and may not be taken concurrently with either. Prereq: basic knowledge of algebra. (3)

**PSYC 201 Abnormal Psychology**

Development, symptoms, and patterns of maladaptive behavior; introduction to neuroses and psychoses as deviations from normal behavior. Prereq: Psyc 103. (3)

**PSYC 202 African-American Social Psychology**

Behavior of African-American community. Socialization, identity, attitudes, values, norms. Prereq: Psyc 103. (3)

**PSYC 203 Coping With Stress**

Self-help course with required student participation. ABC relaxation and active coping techniques. Progressive muscle relaxation; autogenic training; breathing exercises; yoga stretching; imagery; meditation; making personal relaxation tapes. Active coping includes problem solving, making and building relationships, assertiveness, and managing anger and aggression. Not a substitute for psychotherapy or counseling; not a training course for health professionals. (3)

**PSYC 205 Drugs and Human Behavior**

Contemporary drug use in our society from behavioral, biological, and social perspectives; review of prevention and treatment approaches. Prereq: Psyc 103. (3)

**PSYC 215 Educational Psychology of LD and ADD/ADHD**

Cognitive development of students and neuropsychological compromises; understanding alternate learning styles of lexical and non-verbal learning disabilities and the group of attention-deficit hyperactivity disorders; multiple intelligence model. Prereq: Psyc 103. (3)

**PSYC 220 Social Psychology**

Processes of human interaction. Social influences of family, membership groups, mass media, socioeconomic class. Selected forms of social reaction patterns; attitudes, language, crowd behavior, and common prejudices. Prereq: Psyc 103. (3)

**PSYC 242 Animal Behavior**

Evolutionary, developmental, and environmental bases of animal behavior. Emphasis on birds and mammals. Communication, decision making, motivation, learning, memory, social behavior, and mating system. See Biol 242. Prereq: Psyc 103 and one biology course. (3)

**PSYC 254 Childhood and Adolescence**

Psychological development of the child, prenatal to young adulthood. Theory and research of emotional, social, and mental growth. Self-concept from early childhood origins to late adolescence identity formation. Prereq: Psyc 103. (3)

**PSYC 270 Tests and Measurements**

Introduction to measurement theory and the statistical principles underlying the objective assessment of intelligence, personality traits, abilities, and attitudes; standardization, reliability, and validity; limitations and abuses of test scores in evaluation; review of commonly used psychological tests. Prereq: Psyc 103 and 200. (3)

**PSYC 285 Research Methods**

Introduction to the scientific methods used in psychological research, including measurement, descriptive studies and the case study method, correlational and experimental methods; technical report writing; development of critical thinking skills in appreciating published research. Prereq: Psyc 103. (3)

**PSYC 286 Brain and Human Behavior**

Introduction to applied human neuropsychology; survey of cerebral anatomy and

correlating regions with functions such as language, sensory-motor skills, and memory; introduction to neurological disease manifestations and cognitive syndromes, such as ADHD. Prereq: Psyc 103. (3)

PSYC 302 Advanced African-American Psychology  
(3)

PSYC 307 Intermediate Statistics  
Analysis of variance and factorial designs; bivariate and multiple correlation and regression; testing of hypotheses using other statistical tests, including nonparametric tests; introduction to computer applications in psychological research. Prereq: Psyc 200 or 285. (3)

PSYC 310 Biological Psychology  
Physiological bases for behavior. Structure and function of human nervous system, sensation, motivation, and memory. Prereq: nine sem hrs in psychology. (3)

PSYC 312 Understanding Diversity  
Theory and research concerning diversity. Effect of social categories on personality, cognition, emotions, interpersonal relations, and health. Critical insights into diversity issues. Prereq: nine sem hrs in psychology. (3)

PSYC 316 Learning  
Research and theory on the acquisition, retention, and loss of acquired responses; memory and information processing. Prereq: nine sem hrs in psychology. (3)

PSYC 319 Child and Adolescent Psychopathology  
Prereq: nine sem hrs, in psychology. (3)

PSYC 326 Cognitive Processes  
Theory and research on cognitive processes and their interrelationships with other psychological functions, especially learning. Prereq: nine sem hrs in psychology. (3)

PSYC 336 Biological Psychology II  
Fundamental processes of receiving and responding to stimuli in the environment through vision, hearing, touch, taste, and smell; coverage of abnormal development processes, trauma, and pathology. Prereq: nine sem hrs in psychology. (3)

PSYC 339 Adult Development  
Development from post-adolescence through middle age. Biological, psychological, and cultural aspects; new life styles of young adults; changing work world; options for women and men at middle age. Prereq: nine sem hrs in psychology. (3)

PSYC 340 Business Psychology  
The study of human behavior in business situations; supervision, decision making, group think, problem solving, leadership, communication, and market research. Prereq: nine sem hrs in psychology. (3)

PSYC 341 Psychology of Aging  
Psychological dynamics from post-middle age until death. Research and theory of such experiences as retirement, physical disabilities, loss of loved ones, constriction of options, institutionalization, and confrontation of death. Nature, not treatment, of emotional disorders. Prereq: nine sem hrs in psychology. (3)

PSYC 342 Theories of Personality  
Organized nature of personality from psychodynamic, humanistic/existential, behavioral, and cognitive points of view; biological and cultural determinants of personality; overview of personality research. Prereq: nine sem hrs in psychology. (3)

PSYC 343 Motivation  
Experimental and clinical research and theory on nature of human motivation. Prereq: nine sem hrs in psychology. (3)

PSYC 344 Industrial/Organizational Psychology  
Psychological principles and theories of organizations. Influence of organizational structure and management practices on individual and group work behavior; social interaction and conflict; spillover of these effects into nonwork environments. Prereq: nine sem hrs in psychology. (3)

PSYC 345 Psychology of Women  
Psychological development of women viewed from social, cultural, and biological perspectives. Prereq: nine sem hrs in psychology. (3)

PSYC 346 Psychology of Fads, Frauds, and Fallacies  
Comparison of science and pseudoscience; critical examination of claimed psycho-



logical phenomena, methods, systems, and movements that have emerged outside of traditional psychological science. Prereq: nine sem hrs in psychology. (3)

**PSYC 347 Health Psychology**

Relationship between psychology, health, stress, and illness. Influence of affective, cognitive, and social factors on risk, severity, and recovery from illness; impact of illness on psychological status; influence of psychological factors on health maintenance behaviors; psychological interventions; and the role of the psychologist in the health care team. Prereq: nine sem hrs in psychology. (3)

**PSYC 351 Law and Psychology**

The structures and conceptual systems of the legal/judicial system and of scientific psychology examined, contrasted, and ultimately integrated. How psychological information is specifically used in court proceedings; the interface of clinical and experimental psychology in larger-scale legal systems. Prereq: nine sem hrs in psychology. (3)

**PSYC 373 Relaxation and Meditation**

Professional training in progressive muscle relaxation, autogenic training, breathing exercises, yoga stretching, imagery, and meditation. Students learn to construct individualized relaxation tapes for practice clients and present professional relaxation workshops. Not a substitute for personal relaxation training, personal stress management, counseling, or psychotherapy. Prereq: nine sem hrs in psychology. (3)

**PSYC 379 Advanced Relaxation Training**

Proficiency tests for students seeking the Certificate in ABC Relaxation Training. Students demonstrate skills at relaxation training, scripting, tape making, and workshop presentation. Prereq: Psyc 373 or 374. (1)

**PSYC 380 Integrative Seminar**

An in-depth integration of undergraduate psychological studies emphasizing the major theoretical models and conceptual systems underlying scientific approaches to psychology. Prereq: senior standing. (3)

**PSYC 381-386 Special Topics**

Focused topics such as critical review of an outstanding psychologist's major writings,

specific research technique, analysis of single modern theory of behavior, new direction in psychology, or discussion of current professional problem. Topics will be posted in the School of Psychology and may be listed in Class Schedule. Prereq: nine sem hrs in psychology; specific course prerequisites will be listed in Class Schedule. (1-3)

**PSYC 388 Child Social Skills Training**

Prereq: 316. (3)

**PSYC 391 Forensic Psychology I: Adult**

The role of clinical psychologists in assessing and treating criminal and corrections populations and working with police and investigative agencies. Use of behavioral science information in both civil and criminal court proceedings. The psychological and psychiatric aspects of criminal behavior and violence; emphasis on antisocial syndromes and more recent neuropsychological research concerning violence. Prereq: nine sem hrs in psychology. (3)

**PSYC 392 Forensic Psychology II: Juvenile**

Role of clinical and developmental psychologists and of behavioral science research at all levels of the juvenile court system. Abuse and neglect proceedings; family law courts; delinquency courts. Topics may include juvenile violence, substance abuse, therapeutic jurisprudence and restorative justice, effects of divorce, posttraumatic stress syndromes, child witness and child testimony research. Prereq: nine sem hrs in psychology. (3)

**PSYC 395 Independent Study**

Advanced topics in psychology; applied or career-based topics; research under faculty supervision; or paraprofessional practicum. Recent topics have included applied psychology in nursing homes, behavior modification techniques of animal training, and psychology of Arab-Americans. Prereq: nine sem hrs in psychology; consent of instructor and school director. (1-3)

**PSYC 398 Field Placement with Children and Families**

An independent study class. Students participate in a community service placement for a total of 48 hours during the semester. Volunteer service must occur in an organized setting, such as a day care center, after school

or YWCA/YMCA program, elementary school classroom, or pediatric health care setting. Sites must be approved by the course instructor. Prereq: nine semester hours in psychology and consent of instructor. (3)

## Public Administration

PADM 101 American Politics  
See Pos 101. (3)

PADM 300 Introduction to Public Administration  
Theories, skills, functions, and ethics of public administration. See Pos 301. (3)

PADM 318 Emerging Management Techniques and Theory  
Analysis of major emerging change management techniques, such as total quality management (TQM), re-engineering, productivity improvement, technological innovation, reinventing government. Prereq: Padm 300 or consent of instructor.

PADM 322 Human Relations in Nonprofit Organizations  
Human resource management in nonprofit organizations; personnel and volunteer management; working effectively with a board of directors; and managing change. (3)

PADM 324 Resource Development in Nonprofit Organizations  
Fundraising, marketing, and strategic planning in the nonprofit context; identifying, serving, and communicating with key constituencies including funders, media, constituents, and the community. (3)

PADM 341 Introduction to Justice Administration  
Justice administration in the US; how various parts of the system interrelate; key policy issues and dilemmas, including determinate sentencing laws and community policing and corrections. Prereq: Padm 300. (3)

PADM 342 Justice Administration II: The Police  
Roles and responsibilities of the police in society; leadership and community relations; legal, technical, and administrative topics in police administration. Budgeting, personnel, and technical support; community policing strategies. Prereq: Padm 341. (3)

PADM 348 Leadership in Public Policy  
Leadership in the public policy process, including models of leadership and public/private partnerships in local governance. Prereq: Pos 101. (3)

PADM 351 Introduction to Health Services  
History and development of the health services system. Description and evaluation of ambulatory, acute, and long-term care; mental health; and public health systems. (3)

PADM 360 Issues in Intergovernmental Relations  
Intergovernmental relations and their impact on local government. The constitutional context and evolution of federalism; increasing federal role in local affairs; fiscal intergovernmental relations; court decisions that have facilitated the expanded federal role. Administrative relations, mandates, and impact of regulation by higher level governments. Prereq: Padm 300. (3)

PADM 361 Local Government Administration  
Management of local units of government from standpoint of chief executive officer, city manager, township supervisor, school superintendent, and others. Day-to-day operational aspects of municipal administration; supervision of basic public services. Prereq: Padm 301. (3)

PADM 362 Urban Politics  
Problems of governing in urban areas; formal and informal structures and power bases of local government; conflicts and competition between racial and ethnic groups and between city and suburban areas. Application of political machine and community power models in case studies, including studies of Chicago politics. Prereq: Padm 300. (3)

PADM 363 Urban Policy  
Policies and policy-making processes of government that shape quality of life in metropolitan areas; relationship between political and market processes; class, gender, racial, and regional consequences of difference policies. Prereq: Padm 301. (3)

PADM 367 Governing Metropolitan Areas  
Regional governance issues in metropolitan areas including delivery of local government services that cross political boundaries. Prereq:

Pos 101. (3)

**PADM 369 State and Local Government**  
Politics, structure, and governance of state and local governments; interrelationships of governments in metropolitan areas; selected policy issues of concern to state and local governments. Prereq: Padm 301. (3)

**PADM 371 Issues in the Development and Administration of Public Policy**  
Interaction of policy making and implementation. Study of selected issues in public policy. Impact of politics on administration. Prereq: Pos 101. (3)

**PADM 373 Administering Environmental Protection Programs**  
Trends, techniques, concepts, constraints and technologies in the administration of environmental programs at all levels from the public and private perspectives. Responsibilities of federal, state, and local governments; corporations; and private citizens. Prereq: Padm 300. (3)

**PADM 376 National Parks Field Experience**  
This field course will integrate the role of public policy, government politics, interest groups, and the media in the management of the national park's natural resources, along with the natural science concepts underlying environmental management decisions. Topics include management of fires, sustainable habitat development, wolf reintroductions, bison and elk migrations, land use buffer zones, economic development, and tourism. Prereq: one course each in natural science and social science and consent of instructor. (2)

**PADM 398 Internship**  
Prereq: consent of instructor. (3)

## Reading

(See Education: Language and Literacy)

## Secondary Education

(See Education: Secondary)

## Service-Learning

**SVL 245 Service-Learning Field Experience**  
Field placement in an organization or agency with a mission of social justice for the purpose of doing service. Offered in conjunction with Libs/Pos/Soc City and Citizenship or in the semester following completion of that course. Placements must be arranged in advance with the instructor. Prereq: permission of the instructor. (1-3)

## Social Justice Studies

**SOCJ 201 Introduction to Social Justice Studies**  
Various ways of conceptualizing social justice; how the social sciences can be used to understand questions of social justice; case studies in collective action for social justice. Prereq: Eng 102. (3)

**SOCJ 295 Topics in Social Justice**  
Volunteer or intern in a social justice organization or work collaboratively on social justice research projects in The Mansfield Institute for Social Justice. Build skills and knowledge of social justice through participating in a faculty and student internship. Prereq: consent of director of social justice program. (3)

**SOCJ 390 Senior Thesis**  
(3)

**SOCJ 395 Internship**  
(3)

## Sociology

**SOC 101 Introduction to Sociology**  
Basic theories and concepts of sociology; culture; roles and norms; personality and group; forms of social organization; class, caste, and race; community; social institutions; collective behavior; social change. (3)

**SOC 210 Contemporary Social Issues**  
Contemporary issues from a sociological perspective. Topics may include institutional problems of modern societies and issues related to class, race, gender, sexuality, environmental destruction, and global inequality. (3)

**SOC 215 The Family**  
Development of families; variations in family

patterns in various cultures; role relationships within families; family influences in personality development; mate selection; parent-child relations; family disorganization and reorganization. Prereq: Soc 101. (3)

#### SOC 223 Sports and Society

Sociological perspective on the socio-cultural characteristics of sport. Examination of the cultural, historical, economic, political, and structural factors (e.g., race, class, gender) that form salient aspects of today's sport activities at various levels. Focus on the characteristics of sports and how they reflect and impact the social climate of society. (3)

#### SOC 230 Social Deviance

Nature and emergence of various deviant behavior patterns, such as crime, alcoholism, and drug abuse. Prereq: Soc 101. (3)

#### SOC 241 Cross-Cultural Anthropology

Concepts of cultural anthropology in contemporary non-Western cultures and US; development as it affects traditional ways of life. Economic activities, gender, race, health, kinship and marriage, and trends in anthropological fieldwork. See Anth 240. (3)

#### SOC 245 City and Citizenship

History, political economy, and architecture of US cities in relation to historical and philosophical debates about citizenship and democracy. Broad social, economic, and political issues in the US; urban processes and institutions that make for broader sociopolitical stability and change. May be used to fulfill a signature course. Field placement in an organization with a mission of social justice may be arranged with the instructor for 1-3 credits. See Svl 245. Prereq: UWR. (3)

#### SOC 249 City, Neighborhood, Suburban Community

Theoretical approaches and research on the question of community in modern urban America. Field work in the student's own community integrates the differing theoretical paradigms and research methodologies. Prereq: Soc 101. (3)

#### SOC 260 Social Psychology

Processes of social interaction and development of self in social context; methods of research in social psychology; motivation, per-

ception, emotion, and thought; socialization, language acquisition, and symbolic communication; processes of deviant and collective behavior. Prereq: Soc 101. (3)

#### SOC 290 The Research Process

Data-gathering techniques in the social sciences; questionnaires, interviews, participant observation, and the use of official statistics. Basic statistical procedures used to analyze and interpret data; the use of computers in research; emphasis on the preparation and writing of research reports. Prereq: one introductory course in the social sciences. (3)

#### SOC 303 The Development of Sociology

Development of classical perspectives within sociology. Karl Marx, Max Weber, Emile Durkheim and others. Prereq: nine sem hrs in social sciences. (3)

#### SOC 304 Contemporary Social Theories

Main schools and tendencies of 20th-century sociology. Topics may include the Chicago School, symbolic interactionism, functionalism, conflict theory, exchange theory, phenomenological sociology, ethnomethodology, and critical theory. Prereq: nine sem hrs in social sciences. (3)

#### SOC 311 Culture and Politics in Latin America

Intersections of culture and politics with focus on indigenous peoples in Latin America. How culture and ethnic identity are shaped by political factors; how "indians" were incorporated and marginalized by colonial and national processes; impact of global forces such as the cocaine trade on national politics and indigenous culture; mobilization of indigenous identity in social movements. See Anth 311. Prereq: Anth 240 or Soc 241 or six sem hrs in social sciences. (3)

#### SOC 314 Globalization, Society, and Culture

Social, economic, political, and cultural systems that span nation-state borders. Current status of nationalism, nation-states, and the global economy; how cultural identities and communities are formed within the context of global systems. Topics may include effects of world markets on economies and societies, transnational migration and social movements, indigenous groups' self-representation through global technologies such as video and the Internet, hybrid identities and "bifocal"

cultural frameworks. See Anth/Pos 314. (3)

**SOC 315 Work and Organizations**

Classical and contemporary perspectives on the importance of work and organizations in social life. Changing forms of organization, new technologies, and their impacts upon quality of work life. Prereq: Soc 101. (3)

**SOC 318 Social Change**

Paradigms and perspectives in classical and contemporary theories of social and cultural change; examination of processes of change. Prereq: Soc 101 and one 200-level sociology course. (3)

**SOC 320 Sociology of Inequality**

Nature and function of social inequality. Selected theories of inequality; American stratification system; comparative inequality; indicators of social class position; class consciousness and identification; prestige and power; class position and its correlates; processes of social mobility. Prereq: Soc 101. (3)

**SOC 321 Sociology of Politics**

Sociological contributions to research in political behavior; political motivation; participation and apathy; formation of political attitudes; voting organization and structure of political parties; political movements; character of authority and power; political elites and decision makers. Prereq: Soc 101. (3)

**SOC 322 Sociology of Religion**

The institution of religion in American life. Major historical incidents; currently popular religions; how religion interacts with other elements in the society. Prereq: Soc 101. (3)

**SOC 323 Gender in Cross-Cultural Perspective**

Cultural variations in gender ideologies and roles. How diverse cultures define differences between the sexes and their relative positions in social structures. See Anth 323. Prereq: Anth 240 or Soc 241 or six sem hrs in social sciences. (3)

**SOC 325 The Sociology of Education**

Social factors involved in educational processes within US society. The interaction of educational institutions with various cultural, economic, and social factors. Prereq: Soc 101. (3)

**SOC 327 Race and Ethnic Relations**

Race and ethnicity in the US; history and present status of various racial and ethnic groups; political economy of race; changing public discourse of race and racial identities. Prereq: Soc 101. (3)

**SOC 330 Sociology of Mental Health and Mental Illness**

Mental disorders as major social problems; concept of mental illness in popular understanding, psychiatry, and social sciences; cultural, social-psychological, and sociological theories of development of mental disorders; empirical studies of cultural variation and social variables in mental disorders; social aspects of patient care; social prevention of mental disorders. Prereq: six sem hrs in social sciences. (3)

**SOC 331 Criminology**

Social processes and criminal behavior; theories of crime; social factors and causes of crime; law enforcement and the judicial process; corrections; prevention of crime. Prereq: Soc 101. (3)

**SOC 332 Basic Concepts and Issues in Aging**

Elderly stage of life cycle; conceptual framework for viewing elderly and their status in society; general theoretical approaches to old age. Prereq: Soc 101. (3)

**SOC 333 Public Policies in Aging**

Political and social factors in development of public policies and programs dealing with older citizens; Medicare and other programs. (3)

**SOC 336 Aging, the Aged, and the Family**

Issues of three- and four-generational families. Practical overview of developmental issues; family intervention model. Prereq: Soc 332. (3)

**SOC 339 The Sociology of Death and Dying**

Social processes involved in death and dying; how these acts are viewed by society; adjustment processes; effects on surviving individuals and society. (3)

**SOC 340 Sex, Gender, and the Social Order**

The social construction of gender definitions; focus on how gender roles in the family, media, and work place are constructed. Prereq: Soc 101. (3)

**SOC 345 The Study of Population**  
Theories of population growth; balance between population, natural resources, and cultural norms; methods of population analysis; population distribution and density; age, sex, and ethnic composition; fertility, mortality, migration, and their influences on population change. (3)

**SOC 346 Community Organization**  
Nature of urban community structure; theoretical bases for community organization activity; various approaches to community organization practice. Impact of urbanization, industrialization, and bureaucratization on modern community; relevance of community in modern society. Prereq: Soc 101. (3)

**SOC 349 Environmental Sociology**  
Relationship between humans and their environment. How humans fit into the biological ecosystem; the nature of human adaptation and how it has affected the planet. Prereq: Soc 101. (3)

**SOC 350 Sociology of Culture**  
Theory and method in the sociology of culture; topics may include high culture and popular culture, modernism and postmodernism, the politics of mass media, and the role of religion in contemporary societies. Prereq: six sem hrs in social sciences. (3)

**SOC 353 Health, Illness, and Medicine in American Society**  
Organization and delivery of health care in the US; topics include the meaning of illness, the social transformation of medicine, professional autonomy, the medicalization of birth, AIDS, assisted suicide, health care reform, and alternatives to managed care. Prereq: Soc 101. (3)

**SOC 395 Independent Study**  
Topics should not be part of regular curriculum. Student should demonstrate significant interest in and preparation for topic selected. Prereq: consent of instructor. (1-4)

**SOC 396 Suburban Policy Issues**  
Chicago's suburban development after World War II. The postindustrial transformation of the metropolitan region; specific policy issues; economic development; suburban sprawl; taxation; service delivery; housing; crime; transportation. Prereq: Soc 101. (3)

**SOC 397 Urban Policy Issues**  
Theoretical approach to urban issues. Local communities and community organizations; crime and delinquency; segregation; and poverty. Prereq: Soc 101. (3)

## Spanish

All 200- and 300-level courses are taught in Spanish.

**SPAN 101 Elementary Spanish**  
Mastery of basic language skills of listening, speaking, reading, and writing. For beginners. (3)

**SPAN 102 Elementary Spanish**  
Continuation of Span 101. Prereq: Span 101 or equivalent. (3)

**SPAN 201 Intermediate Spanish**  
Review of essentials of grammar and continuing practice of basic skills of listening, speaking, reading, and writing. Taught in Spanish. Prereq: Span 102 or equivalent. (3)

**SPAN 202 Intermediate Spanish**  
Continuation of 201. Prereq: Span 201 or equivalent. (3)

**SPAN 255 Intensive Reading**  
Examination of contemporary literary and technical material. Oral practice. Prereq: Span 202 or equivalent. (3)

**SPAN 301 Advanced Composition**  
Translation, composition, and analysis of original texts. Taught in Spanish. Prereq: Span 202, equivalent, or consent of instructor. (3)

**SPAN 302 Spanish for Speaking**  
Designed for non-native speakers past the intermediate level to further develop speaking and oral comprehension skills. Taught in Spanish. Prereq: Span 202. (3)

**SPAN 303 Conversation and Grammar Review**  
General review and development of language skills and grammar; preparation for more advanced courses. Taught in Spanish. Prereq: Span 202. (3)

**SPAN 304 Advanced Conversation**  
Subjects of discussion based on selected texts. Taught in Spanish. Prereq: Span 202, Span 301, or consent of instructor. (3)

SPAN 315 La Nacion Latinoamericana  
A broad survey of Latin American culture.  
Taught in Spanish. Prereq: Span 202. (3)

SPAN 319 La novela corta  
Contemporary short novels from Latin America  
and Spain. Taught in Spanish. (3)

SPAN 320 Ensayo hispanoamericano  
A survey of the most important Hispanic-  
American essayists: Bolivar, Marti, Vasconcelos,  
Mistral, Castellanos, Carpentier, Garcia Mar-  
quez, Paz, Fuentes, Poniatowska. Taught in  
Spanish. (3)

SPAN 322 Narradoras hispanas: Siglo XX  
Novels and short stories by women from Latin  
America and Spain. Taught in Spanish. (3)

SPAN 325 Teaching Methods and Techniques  
See Seed 324. (3)

SPAN 326 Review Grammar, Composition, and  
Conversation  
Review of grammar. Writing and comprehen-  
sion skills emphasized. Taught in Spanish. (3)

SPAN 328 Escritores del Boom  
Novels and short stories by Gabriel Garcia  
Marquez, Carlos Fuentes, Mario Vargas Llosa,  
Julio Cortazar, and other Boom writers. Taught  
in Spanish. (3)

SPAN 337 La novela hispana: Siglo XX  
Review of the important novels from Spain  
and Latin America in the 20th century. (3)

SPAN 341 Poesia lirica  
Survey of major 20th-century poets from Latin  
America and Spain: Neruda, Lorca, Mistral,  
Borges, Cernuda, Paz, Storni, Vallejo, Huidobro,  
Castellanos, and others. Taught in Spanish. (3)

SPAN 344 Literatura oral hispanoamericana  
A survey of different Hispanic-American au-  
thors, with emphasis on the oral nature of the  
texts. Taught in Spanish. (3)

SPAN 345 United States Latino Writers  
Poetry and prose of US Latinos that write in  
Spanish. Taught in Spanish. (3)

SPAN 348 Literatura testimonial  
A study of the most important works of testi-  
mony of Latin America. (3)

SPAN 349 Literatura del Caribe  
Novels, short stories, poetry, and theatre from  
the Caribbean. Taught in Spanish. (3)

SPAN 358 Musica popular y literatura  
The most important authors that use poplar  
music in their novelistic techniques. (3)

SPAN 359 Espanol para hispanohablantes  
For students of Hispanic background who  
have some knowledge of Spanish. Emphasis  
on written and oral communication to build  
vocabulary and improve spoken and written  
Spanish. (3)

SPAN 361 Posboom  
Study of various Latin American authors, such  
as Sainz, Jose Agustin, Puig, Peri Rossi, Ferre.  
Taught in Spanish. (3)

SPAN 363 Phonetics, History of the Language  
Spanish phonetics and phonemes; analysis  
of modern pronunciation; comparison of  
peninsular and American Spanish; phonetic  
transcriptions. Historical development of  
modern, standard Spanish. Taught in Spanish.  
Prereq: consent of instructor. (3)

SPAN 365 El Ensayo en Latinoamerica y Espana  
(3)

SPAN 375 Cultura popular y literatura  
Reading, discussion, and analysis of works that  
include popular culture, such as music, movies,  
sports, and soap opera. (3)

SPAN 377 La cultura hispana a traves del cine  
Aspects of Hispanic culture examined through  
selected films from Latin America and Spain.  
Taught in Spanish. (3)

SPAN 378 Politica y sexualidad en America  
Latina  
(3)

SPAN 380-90 Special Topics in Hispanic  
Literature and Culture  
Taught in Spanish. (3)

SPAN 395 Independent Study  
Prereq: consent of instructor. (1-3)

## Special Education

(See Education: Special Education)

## Speech

### SPCH 101 Public Speaking

Principles and practices of effective composition, delivery, and communication of speeches. (3)

### SPCH 201 Persuasive Speaking

Emphasis on construction and delivery of the persuasive speech; principles of audience analysis; sound logical arguments; and effective psychological appeal. Prereq: Spch 101 or consent of instructor. (3)

### SPCH 204 Interpersonal Communication

Dynamics of communication between two people or within small groups; understanding self and others; verbal and nonverbal communication; feedback, behavior patterns, and conflict. Prereq: Spch 101 or consent of instructor. (3)

### SPCH 230 Voice and Diction I

Basic training in development of responsive speaking mechanism; good voice quality, clear articulation, and standard pronunciation patterns; oral drill and practice. Prereq: Spch 101 or consent of instructor. (3)

### SPCH 345 Cross-cultural Communications

Communication styles and characteristics of various cultural groups. Understanding and recognizing barriers (semantics, nonverbal behavior, stereotypes, and assumed similarities) that affect communication among cultures. Fulfills the non-Western requirement. Prereq: Spch 101 or consent of instructor. (3)

### SPCH 353 Business and Professional Speaking

Advanced public speaking, interviewing, and presentation techniques adapted to problems and needs of business and other professions. Prereq: Spch 101, 201, or consent of instructor. (3)

### SPCH 380 Interviewing: Theory and Technique

Interviewing skills in various settings, such as employment, appraisal, reprimand, complaint, and persuasion; methodology of survey interviewing. Prereq: Spch 101 or consent of instructor. (3)

### SPCH 392 Special Topics

Focused course work dealing with a particular communications area of current interest. (3)

## Teacher Leadership

(See Education: Teacher Leadership)

## Theatre

Courses listed below are open only to theatre majors except where listed for nonmajors: Thar 205, 206, 207, 225, 226, 294.

### THAR 099 Performance Attendance

Attendance at music and theatre performances in the Chicago College of Performing Arts. Required of all undergraduate majors for six semesters. Grade P/F. (0)

### THAR 101 Physical Preparation for Voice Majors I

Introductory study of physical preparation and technical requirements for effective stage communication. Topics include basic principles of dance and other specialized movement forms. (1)

### THAR 102 Physical Preparation for Voice Majors II

Continued study of physical techniques begun in Thar 101 with emphasis on more advanced forms of dance and movement. Prereq: Thar 101. (1)

### THAR 203 Beginning Play Writing

Study of the elements of play writing, including script analysis, character development and dramatic structure. Writing will focus on the development of a short script. (3)

### THAR 205 Shakespeare

See English 205. (3)

### THAR 206 Fundamentals of Acting I for Nonmajors

A special section of Fundamentals of Acting I course geared toward non-theatre majors. Open to freshmen. (3)

### THAR 206 Fundamentals of Acting I

An introduction to the dynamics of the actor's art, focusing on individual self-awareness, spontaneity, and expressiveness. Open to freshmen. (3)

### THAR 207 Fundamentals of Acting II for



**Nonmajors**

A special section of Fundamentals of Acting II geared toward non-theatre majors. Open to freshmen. (2-3)

**THAR 207 Fundamentals of Acting II**

The art of the actor continued and expanded. Further development of skills; scripted texts; monologues and scenes. (3)

**THAR 220 Vocal and Physical Preparation I**

The performer's resources of the voice and body. Exercises in relaxation, physical awareness, and coordination; focus on breath and the basics of vocal production. (3)

**THAR 221 Vocal Physical Preparation II**

Vocal and physical work continued; enhancement of basic skills; more complex aspects of breath, sound, and specialized physical skills. (3)

**THAR 225 Intermediate Acting I**

Continued development of the actor's skills; increasingly more complex textual demands. (3)

**THAR 225 Intermediate Acting I for Nonmajors**

A special section of Intermediate Acting I geared toward non-theatre majors. (3)

**THAR 226 Intermediate Acting II**

A continuation of the work of the previous course, focusing on more complex character development. (3)

**THAR 226 Intermediate Acting II for Nonmajors**

A special section of Intermediate Acting II geared toward non-theatre majors. (3)

**THAR 231 Vocal and Physical Preparation III:****Comedy**

Continued application of vocal and physical training to performance; the actor's creative process as the integrating link of voice, body, emotions, and intellect applied to the techniques of comedy. Prereq: Thar only. (3)

**THAR 231 Vocal and Physical Preparation III**

Continued application of vocal and physical training to performance, focusing on the actor's creative process as the integrating link of the voice, body, emotions, and intellect. (3)

**THAR 232 Vocal and Physical Preparation IV:****Shakespeare/Classical Texts**

Application of the skills previously learned;

development of new vocal and physical skills necessary to fulfill the demands of classical texts, particularly the works of William Shakespeare. (3)

**THAR 242 Vocal and Physical Preparation V:**  
**Stage Dialects**

Basic stage dialects commonly used by actors, such as Standard British and Cockney. (3)

**THAR 247 Introduction to Technical Theatre**

Theory and practice of stagecraft, design, and theatre safety. Open to freshmen. (3)

**THAR 250 Freshmen Rehearsal and Performance**

Introduction to disciplines of rehearsal and

