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NORTHEASTERN

Illinois University

Academic Catalog

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GENERAL INFORMATION 2003-2004

NORTHEASTERN ILLINOIS UNIVERSITY
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This issue of the Northeastern Illinois University Catalog is for the academic period 2003-2004. Provisions of this catalog are not to be regarded as irrevocable contractual commitments between Northeastern Illinois University and the student. The university reserves the right to change any provisions or requirements contained herein at any time within the student's term of residence.

Northeastern Illinois University subscribes to the principles of equal opportunity and affirmative action and does not discriminate against any individual on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, or veteran status.

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Northeastern Illinois University Mission Statement

Northeastern Illinois University is dedicated to both excellence and access. The most important facets of the University's mission are to offer high quality undergraduate and graduate programs to a broad spectrum of students and to foster student growth and development. To these ends, the University attaches primary importance to excellence in teaching. Since program quality is enhanced by professional activities beyond the classroom on the part of the faculty, emphasis is also given to pure and applied research and to academic and public service.

Unique to **Northeastern's** mission are the two distinctive features of diversity and community partnerships. Because of its location in the Chicago metropolitan area, the University serves a population which is diverse in age, culture, language and race. This diversity, a major asset, means that the academic programs utilize a variety of perspectives to enrich the teaching and learning experience and to prepare students for the multiculturalism which characterizes our society. The University's location also provides students and faculty with many opportunities to integrate field-based learning, research, and service with classroom instruction.

Northeastern Illinois University preserves the finest traditions of university education, augmented by active involvement in the metropolitan area, on behalf of the residents of Illinois.

THE UNIVERSITY

Northeastern Illinois University is a fully accredited public university serving the Chicago metropolitan area. Total graduate and undergraduate enrollment is approximately 11,000.

In addition to offering traditional programs in the arts, sciences, business, and education, Northeastern has a strong commitment to innovative, non-traditional education and has been a leader in the development of special programs for adult learners.

ACCREDITATION

Northeastern Illinois University is accredited by the Higher Learning Commission of the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602, telephone number (312) 263-0456 or (800) 621-7440.

FACULTY

Northeastern employs approximately 346 full-time and 229 part-time faculty who are committed to excellence in teaching. Their varied academic backgrounds and professional accomplishments provide students with many learning opportunities.

HISTORY OF THE UNIVERSITY

Northeastern Illinois University traces its origin to the beginnings of teacher training in Illinois. Founded in September, 1867 in Blue Island as Cook County's first teacher training school, the institution has evolved into the comprehensive university that it is today. Its campus at 5500 N. St. Louis Avenue opened in 1961.

In 1961, total enrollment was 1,348 students pursuing the bachelor of arts or bachelor of science degrees although the major concentration was primarily in education. Throughout the 1960's, enrollment increased, programs were expanded, and the institution's mission broadened. In 1971, with a total enrollment of approximately 7,000, the college became Northeastern Illinois University.

Today, the 67-acre main campus is an attractively landscaped urban oasis near the north branch of the Chicago River. Its location eight miles northwest of downtown Chicago, only

twenty minutes from O'Hare Airport, and convenient to expressways and public transportation, makes it an ideal campus for commuter students.

The main campus consists of 18 modern buildings of more than 1,000,000 square feet. Instruction is supported by technology-enhanced as well as conventional classrooms, a modern four-story Library with access to local, regional and Internet resources and a wide assortment of traditional and computer laboratories. A redesigned Student Union, a modern Physical Education Complex and a state-of-the-art new Fine Arts Center, containing both academic and performance space, complete the opportunities for an excellent well-rounded education. Satellite campuses El Centro de Recursos Educativos and The Center for Inner City Studies enhance the University's ability to serve the entire metropolitan area.

Northeastern is a 21st century learning community that is richly diverse in ethnicity, culture, age, and language with a strong commitment to raising global awareness and understanding. Northeastern provides a high quality, affordable education through low tuition as well as scholarships and financial aid opportunities for both full- and part-time students.

ORGANIZATION OF THE UNIVERSITY

The President of the University is accountable to the Northeastern Illinois University Board of Trustees for the administration of the institution and has full power and responsibilities within the framework of board policies for the organization, management, direction, and supervision of the university.

The President is assisted by the Provost (Academic Affairs), two vice-presidents (Finance and Administration and Student Affairs), and unit head of Marketing and Communications.

Under separate constitutions, faculty and students participate in the governance of the university through the Faculty Senate, Student Government, and by membership on various standing and ad hoc committees that consider and recommend policies and procedures to the president.

AFFIRMATIVE ACTION

The Affirmative Action Office, B-Building, focuses on issues relating to diversity. It is responsible for addressing student and employee concerns relating to harassment and discrimination

on the basis of age, color, disability, national origin, race, religion, gender, sexual orientation, or veteran status.

In accordance with the Americans with Disabilities Act of 1990, Northeastern Illinois University does not discriminate against students or employees on the basis of disability. In addition, the University provides reasonable accommodations for students and employees with disabilities. Students seeking reasonable accommodations in the classroom should contact the Accessibility Center, (773-442-5495; TDD 773-442-5499). Persons seeking handicapped parking permits should contact the Health Service, (773-442-5800). Employees seeking reasonable accommodations in the workplace, persons with concerns about discrimination on the basis of disability, and persons with any questions about the Americans with Disabilities Act of 1990 should contact the Affirmative Action Office. The University President has designated the Affirmative Action Officer to receive grievances and coordinate compliance activities under the Americans with Disabilities Act.

ACADEMIC AFFAIRS

Lawrence P. Frank, Ph.D., Provost and Vice President

Academic Affairs is responsible for instruction, academic programs and academic support services. Academic programs are offered through the College of Arts and Sciences, College of Education, College of Business and Management and the Graduate College. Instructional support services are provided by the Library. In addition, Academic Affairs is administratively responsible for the Center for Inner City Studies, The Center for Teaching and Learning, and for the Offices of Academic Development, Admissions and Records, Institutional Studies and Planning, and Sponsored Programs.

FINANCE AND ADMINISTRATION

Mark D. Wilcockson, M.B.A., C.P.A., Vice President

Finance and Administration provides support to the University community through the management of units that contribute to the daily operation of the University. These activities include Facilities Management, University Budgets and Financial and Administrative Affairs, which encompasses Auxiliaries and Support Services (Bookstore, Child Care Center, Copier Services, Mailing/Shipping and Receiving, Motor Pool, Printing Services and Vending); Bursar; Controller; Human Resources; Purchasing and University Computing Services.

MARKETING AND COMMUNICATIONS

Terry M. Bush, Executive Director

The Marketing and Communications area is responsible for strengthening Northeastern's image; raising awareness of the University; managing the University's contact with the media; promoting programs and events; publicizing the accomplishments of faculty, staff and students; attracting prospective students, employees, and donors; assisting departments in their efforts to obtain additional funding beyond that provided by the state; and providing programs and services for alumni, and avenues for alumni service to the University.

The departments comprising Marketing and Communications include Development, Alumni Affairs, Media Relations, and Publications. Activities of the NEIU Foundation are also coordinated by this area, including providing scholarships and other aid for students through the Office of Financial Aid.

The **Freedom of Information Act** requires that public records be made available upon request. All requests should be forwarded to the Office of Media Relations where they will be processed in accordance with state law.

STUDENT AFFAIRS

Melvin C. Terrell, Ph.D., Vice President

Student Affairs collaborates with students, faculty, and staff to meet student needs, support the institutional mission, and create a campus culture and community that is caring, ethical, service oriented, and inclusive. Its goals are to: 1) continually improve the quality of student services, 2) advocate for student needs, 3) facilitate the intellectual, physical, ethical, and social development of students, and 4) help students make successful transitions to, through, and beyond the university environment. Students are encouraged to participate in the programs offered through the following Student Affairs areas:

- Campus Recreation
- Counseling
- Dean of Students
- Financial Aid
- Health Services including Student Health Insurance
- Office of Scholarship/Retention
- Placement
- Public Safety and Parking
- Student Activities
- Student Employment
- Student Union
- University Events
- Women's Services and Returning Adult Program

DEAN OF STUDENTS

The Office of the Dean of Students is responsible for a wide variety of programs and services designed to (1) foster student development; (2) facilitate a successful transition for entering students; and (3) establish a campus climate where diversity is encouraged and students learn to respect differences, exercise leadership, and take responsibility for their actions.

Programs and services of the Dean's Office include:

- Alcohol and Substance Abuse Prevention
- America Reads / America Counts
- Mediation Services

Minority Student Mentoring Program

The Minority Student Mentoring Program, Partners for Success, housed in the Office of the Dean of Students, provides qualified entering first year students the opportunity to participate in a personalized, "one-to-one," supportive program. The program matches individual minority students with interested and caring faculty or staff members. Mentors teach students the "ropes" as well as the "road map" of the university, help

them in understanding unwritten rules and norms for success, guide in decision making, and enrich personal growth.

National Student Exchange Program

The National Student Exchange enables qualified sophomores and juniors to study at other colleges and universities in the United States. Currently, 171 institutions of higher education participate in the program. The tuition and fees are generally equal to or a little higher than those at Northeastern.

Freshman Orientation

Family Orientation

New Student Week

Off-campus Housing Information

Student Judicial Affairs

Student Research and Needs Assessment

Student Survival Kit

Student Volunteer Corps Program

University Ambassadors

In addition, the Dean of Students Office serves as a "universal starting point" for students who need assistance in exploring and addressing their concerns, complaints, suggestions, and grievances. The Office of the Dean of Students can be contacted at 773-442-4610 or mtkelly@neiu.edu.

COUNSELING OFFICE

The Counseling Office, staffed by professional Psychologists and Counselors, offers career and psychological counseling services and counseling-related programs to all Northeastern students. Counseling services are both confidential and free. If office staff cannot provide appropriate assistance, referrals can be made to a variety of on- or off-campus resources.

Career counseling is available in individual sessions, group workshops and in a three-credit course through the HRD department. Counselors help students assess their career interests and values, using this information when choosing an academic major or career direction. A more satisfying and successful career choice is made by basing career choices on both knowledge about one's interests and values as well as up-to-date information about occupational fields and job-market trends.

Psychological counseling is private, confidential assistance available in individual, group or couples sessions to help students understand their feelings and personal problems, overcome stress, or find better ways of handling interpersonal relationships. Because commuter students most often balance the different responsibilities of school, work and home, they may face heavy and sometimes conflicting demands on their time and resources. Psychological counseling can help by clarifying feelings and needs and sorting out these issues.

Military veterans, or those who are currently serving in the armed forces, may be eligible for specific services while at the University. The Counseling Office provides general counseling services, career counseling, and academic advising specifically to veterans' needs, while the Office of Admissions and Records provides enrollment certification and advice about Veterans Administration (VA) requirements.

Students can obtain information about our programs or make an appointment to meet with a counselor by calling the secretary at 773-442-4650 or by stopping by the office.

The Counseling Office is located in D-024 (lower level of the D-building). A current listing of services, programs and staff is available on our website at www.neiu.edu/Counsel.htm.

FINANCIAL AID OFFICE

Northeastern Illinois University is committed to providing an affordable education to all qualified students. The Financial Aid Office, located in D-200, (at extension 5000) offers assistance in meeting educational expenses through loans, grants, scholarships, and student employment programs. Some of the aid is based on financial need. Some aid is merit-based, awarded to students whose ability to contribute to campus life is significant because of their academic potential or talent in a particular field.

How To Apply For Financial Aid

The key financial aid application form is the Free Application for Federal Student Aid (FAFSA). The form is available online at www.fafsa.ed.gov/. A copy of the printed application can be obtained from the NEIU Financial Aid Office or from high school counselors and libraries.

- If you have not filed for financial aid before, fill out the FAFSA. To select NEIU as a school to receive your information, enter our FAFSA code 001693 on the application.
- If you have filed a FAFSA before, you will receive a renewal application in the mail between November 15 and January 15. Complete and return that form instead of the FAFSA.
- If you used the student aid website (www.fafsa.ed.gov/) to file last year, the Department of Education will mail you a Personal Identification Number (PIN) between November 15 and January 15. That PIN will allow you to access the form you submitted last year and update it.
- Your FAFSA should be received at the address shown on the forms by February 15.
- For priority consideration for all available financial aid, your enrollment application, Student Aid Report and NEIU application for financial aid should be received at NEIU by March 1.

You will receive a Student Aid Report (SAR) 4 weeks after you mail the FAFSA or Renewal Application. Your SAR contains key information about your aid eligibility. If any of the information on the SAR is incorrect, make the necessary changes and send it back to the processor. If all the information is correct, keep it for your records. If you listed Northeastern Illinois University as one of the schools to receive the data, our Financial Aid Office will receive your information electronically.

Applicants and their parents should be prepared to furnish any information verifying data on the application. This may include tax returns for the applicant and/or parents.

Applications will be processed and awards will be made on a first come, first served basis for campus-based funds (Federal Work Study, Federal Supplemental Educational Opportunity Grants, Federal Perkins Loan). Federal Pell Grant, Monetary Award Program Grant (ISAC), and Stafford Loan applications are also reviewed in date order. Although the amounts of these awards are not determined by the date priority, early applicants will receive their monies first.

Awards are announced on a rolling basis. You will receive an award letter detailing the financial aid for which you qualify. All financial aid funds will be credited to your NEIU billing account. If the total credited funds exceed your NEIU bill, you will be notified when to pick up a refund check for the remainder from the Student Loan Office. Two documents of identification, one of which must be the University ID, are required in order to pick up Financial Aid and Emergency Loan checks.

Additional information concerning financial assistance and deadlines can be obtained by contacting the Financial Aid Office, 773-442-5000.

Satisfactory Academic Progress Policy for Financial Aid

Federal regulations require that the University establish an academic progress policy which addresses the minimum academic standards (relative to hours completed and cumulative grade point average attained) that students otherwise eligible for financial aid must meet. Those same regulations also call for the university to develop a maximum time frame in which students must complete their degree. Students who are not in compliance with this policy will not receive further financial assistance unless they successfully complete an appeal process resulting in a reinstatement of their financial aid.

Students are expected to:

1. Complete successfully seventy-five (75%) percent of the credit hours in which they enroll during each award year, July 1 - June 30. Students in Special Programs (Project Success, Proyecto Pa'Lante or Student Support Services) will have two years to achieve compliance with this completion rate requirement.
2. Achieve a minimum cumulative grade point average of 2.0 or "C" as an undergraduate by the end of their second academic year. Each year thereafter students are expected to maintain a 2.0 cumulative GPA at Northeastern Illinois University. Graduate students are expected to maintain a minimum cumulative grade point average of 3.0 or "B" by the end of each academic year.

Those requirements apply to part-time as well as full-time students for all semesters of enrollment within an award year, including those semesters for which no financial aid was granted. Full-time students are expected to complete their program of study within a maximum time frame not to exceed six years. The time frame for part-time students is pro-rated beyond six years for undergraduates and beyond

two and one-half years for graduates. For example, a half-time student will be allowed twelve years to complete an undergraduate degree and five years to complete a graduate degree. All undergraduate students who have attempted more than 160 hours and all graduate students who have attempted more than 48 hours will not receive further financial assistance unless they successfully complete an appeal process resulting in a reinstatement of their financial aid.

Review

The Financial Aid Office shall conduct its annual review in the month of June. However, student progress toward meeting the annual objectives shall be monitored on a semester basis as follows:

Those students who will have difficulty meeting the annual objectives based on their academic performance for the semester in question, have a cumulative grade point below 2.0 (graduate students below 3.0) or are approaching the time frame limit, shall receive a warning letter from the Financial Aid Office. Students who (1) do not complete any hours during the semester, (2) do not have a minimum cumulative grade point average of 2.0 for undergraduate or post baccalaureate by the end of their second year and a minimum of 3.0 for graduate students by the end of each year, and/or (3) exceed the time frame will not receive further financial assistance unless they successfully complete an appeal process resulting in a reinstatement of their financial aid.

Grades of "A", "B", "C", or "D" will be counted towards the 75% completion rate; however grades of "F", "I" or "W" will not be counted towards the 75% completion rate during an award year. Students will not satisfy the completion rate requirement of this policy if they received grades of: "F" - Course Failure; "I" - Course Incomplete; "W"- Course Withdrawal in 26% or more of their attempted hours during an award year. Students in Special Programs (Project Success, Proyecto Pa'Lante) will have two years to achieve compliance with the completion rate requirement of this policy.

Termination

Students who do not complete any of their attempted hours during a semester, or who complete less than 75 % of their attempted hours for the year will not receive further financial assistance unless they successfully complete an appeal process resulting in a reinstatement of their financial aid. Students in Special Programs (Project Success, Proyecto Pa'Lante) will have two years to achieve compliance with the completion rate requirement of this policy. In addition, those students who are not in compliance with the grade point average requirement of this policy by the end of their second academic year (by the end of each academic year for graduate students) will not receive further financial assistance unless they successfully complete an appeal process resulting in a reinstatement of their financial aid. In both instances, the Director of Financial Aid shall advise students in writing of this action as well as the procedure for appeal.

Appeals

Those students seeking reinstatement of their financial aid eligibility must submit a typed/printed appeal to the Financial Aid Office. Through the appeal, students should address reason(s) for not meeting minimum academic requirements expected of all financial aid recipients, as well as offer some solution to the problems which impacted their prior academic performance. They may also submit supporting documentation such as statements from advisors, counselors, professors, doctors, etc.

Appeal Process

Students who have been notified that they will not receive further financial aid may appeal in writing to the Financial Aid Office. Designated members of the financial aid staff shall review appeals. Appeals not supported by the staff shall be forwarded to the Appeal Committee. The Appeal Committee

shall review the appeal and forward a recommendation to the Director. Students shall be advised of the decision in writing by the Director.

Reinstatement

Students may have their financial aid status reinstated through the appeal process. Reinstatement will take place by the student providing proof (transcript or grade report) of having successfully completed at least six hours of academic work during the Fall and Spring semesters or three hours of academic work during the Summer semester, with a minimum cumulative grade point average of 2.0 or "C" for undergraduate or post baccalaureate and a minimum of 3.0 or "B" as a graduate student at Northeastern Illinois University without financial aid or at another institution with or without financial aid. Students with more than 60 hours should consult with the Financial Aid staff regarding their options.

PROGRAMS	ELIGIBILITY	DESCRIPTION OF PROGRAMS	REPAYMENT	OFFICE TO CONTACT
Institutional Scholarships				
NEIU Presidential Scholarship	(Entering Freshmen) Must achieve a minimum ACT of 27 and submit application.	Covers in-state tuition, fees, and books for a maximum of four years. (Must achieve a GPA of 3.25 for eligibility for renewal.)	No repayment obligation.	Northeastern's Financial Aid Office and the Office of Scholarship/Retention.
NEIU Phi Theta Kappa Scholarship	A minimum 3.0 GPA and an A.A. or A.S. degree are required. In addition, student must be a full-time resident of Illinois; enroll at NEIU immediately following the completion of an Associate's degree program; working towards their first baccalaureate degree; and provide recommendation from Phi Theta Kappa advisor.	Covers tuition for a maximum of 60 credit hours. Must maintain good academic standing.	No repayment obligation.	Northeastern's Office of Scholarship/Retention.
NEIU College of Arts & Science	Freshman-upper 15% of graduating class or minimum ACT of 24 or SAT of 1110. Transfer or current NEIU student-minimum cumulative GPA of 3.0.	Full or half-time tuition waiver.	No repayment obligation.	Northeastern's College of Arts & Sciences, Office of the Dean.
NEIU College of Business & Management	Freshman-upper 15% of graduating class or minimum ACT of 24 or SAT of 1110, one page essay, submit two letters of recommendation from teachers and/or employers. Transfer or current NEIU student, minimum cumulative GPA of 3.0, one page essay, submit two letters of recommendation from teachers and/or employers.	Full-time or half-time tuition waiver.	No repayment obligation.	Northeastern's College of Business & Management.
NEIU College of Education	Freshman-upper 15% of graduating class or minimum ACT of 24 or an SAT score of 1110, one page essay. Transfer or current NEIU student-minimum cumulative GPA of 3.0, one page essay.	Full-time or half-time tuition waiver.	No repayment obligation.	Northeastern's College of Education.
NEIU Honors Scholarship	(Undergraduate) Admitted into Northeastern's Honors Program; have a 3.25 GPA and be enrolled in an Honors course each semester the award is granted. Eligibility after 1st Honors course completed.	Pays instate tuition only.	No repayment obligation.	Northeastern's Honors Program Office.

PROGRAMS	ELIGIBILITY	DESCRIPTION OF PROGRAMS	REPAYMENT	OFFICE TO CONTACT
Institutional Scholarships, cont'd				
NEIU Talent Scholarship (Art, Music, Dance, Leadership, Speech & Performing Arts, Publications)	(Undergraduate) Limited availability. Eligibility determined by individual area.	Maximum: Four years of tuition payment. Reapply annually.	No repayment obligation.	Individual Departments.
Scholarship for Children of Deceased Faculty/Staff	(Undergraduate) Natural, adoptive, step, or foster child of a full-time Northeastern employee who died while in service. Spouse of faculty and staff are also eligible.	Covers tuition and fees.	No repayment obligation.	(Faculty) Provost Office; (Staff) Personnel Office.
Institutional Waivers				
Need-Based Tuition Waiver	(Undergraduate) Must be in one of NEIU's Special Programs and demonstrate need through the FAFSA.	Pays tuition only.	No repayment obligation.	Northeastern's: Center for Inner City Studies; EI Centro; Projecto Pa'Lante; Project Success.
Northeastern Annual Application for 50% Undergraduate Tuition Waiver for Child of 7-Year NEIU Employee	(Undergraduate) Natural, adopted, foster or step-child of a current Northeastern employee who has been employed for at least 7 years by NEIU. Student has to be under the age of 25 at the commencement of the academic year the award is granted.	Cover 50% of undergraduate tuition charges.	No repayment obligation.	Northeastern's Personnel Office.
Senior Citizens Tuition Waiver	(Undergraduate or Graduate) Must be 65 years or over with qualifying low income.	Covers tuition and fees.	No repayment obligation.	Northeastern's Financial Aid Office.
ROTC Scholarships	(Undergraduate and Graduate) Based on merit.	Covers tuition and some fees up to four years.	No repayment obligation.	U.S. Army ROTC: University of Ill. (Chicago), (312) 996-3451; U.S. Air Force ROTC: Illinois Institute of Technology, (312) 567-3525.
Employee Tuition Waiver	(Undergraduate and Graduate) Must be status employee.	Covers tuition and fees, up to 6 credit hours.	No repayment obligation.	Northeastern's Personnel Office.
Graduate Merit Tuition Waiver	(Graduate) Must be in graduate program and have 3.00 GPA.	Pays tuition only.	No repayment obligation.	Northeastern's Graduate College and Graduate Advisors.
Graduate Need Based Tuition Waiver	(Graduate) Must show need through the FAFSA. Must be enrolled for 6 or 9 credit hours.	Pays tuition only.	No repayment obligation.	Northeastern's Financial Aid Office.
Graduate Assistantships	(Graduate) Must be in graduate program and have 3.00 GPA.	Covers tuition and fees; small stipend.	No repayment obligation.	Northeastern's Graduate College or department chairperson.
Cooperating Teacher Certificate	(Graduate) Current teachers who have supervised a Northeastern student teacher in a classroom setting arranged through Office of Clinical Experiences & Student Teaching.	For each student teacher supervised the cooperating teacher will be waived tuition for one 3 credit hour class.	No repayment obligation.	Northeastern's Office of Clinical Experiences & Student Teaching, extension 5350.
State Scholarships				
Merit Recognition Scholarship (ISAC)	(Undergraduate) Students must be in the top 5% of their high school class for the 7 th and 8 th semesters. Eligible students will be sent an application in the summer after high school graduation.	\$1,000 award for freshman year.	No repayment obligation.	ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.

PROGRAMS	ELIGIBILITY	DESCRIPTION OF PROGRAMS	REPAYMENT	OFFICE TO CONTACT
State Scholarships, cont'd				
Minority Teachers of Illinois Scholarship (ISAC)	Undergraduate minority students (Black, Hispanic, Asian or Native American) who have not received a baccalaureate degree. Must be enrolled full-time or accepted for enrollment in a Teacher Education program. Have a cumulative GPA of 2.50 on a 4.00 scale.	Maximum \$5,000 per year.	No repayment necessary if recipient fulfills teaching commitment (one year for each year of assistance).	Northeastern's Financial Aid Office or ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Illinois Police/Fire Survivor Program	(Undergraduate) Surviving children and spouses of Illinois Police/Fire officers killed in the line of duty. Must be half-time.	Covers tuition and fees.	No repayment obligation.	ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Dependents of POW's and MIA's Scholarships	(Undergraduate and Graduate) Students who are dependents (spouse and/or children) of Illinois residents, officially declared prisoners of war, missing-in-action, killed, or 100 percent disabled since January 1, 1960.	Covers tuition and some fees.	No repayment obligation.	Illinois Office of Veterans Affairs Springfield, Illinois.
DeBolt Teacher Shortage Scholarship (ISAC)	(Undergraduate and Graduate) Enrolled at least half-time. Must be pursuing teacher certification in shortage area as defined by ISBE. Must have 2.50 GPA. Must apply for need-based aid. Annual application due March 1.	Annual award up to \$5,000.	No repayment necessary if recipient teaches one year in public elementary or secondary school in Illinois for each year of assistance received.	Northeastern's Financial Aid Office or ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015, (847) 948-8500.
Special Teacher Education Scholarship for High School Graduates and for Certified Teachers (ISAC)	(Undergraduate and Graduate) Limited availability to students expressing intent to take courses in preparation for teaching special education. No need analysis required.	Maximum: four years. Pays tuition and activity fees.	Repayment to state is necessary if teaching career not pursued.	High school guidance departments. ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Other Scholarships				
Illinois General Assembly Scholarship (ISAC)	(Undergraduate and Graduate) Financial need not usually a factor.	Each member of the Illinois General Assembly is authorized to award the equivalent of two, 4-year scholarships annually to his/her constituents.	No repayment obligation.	State Senator or Representative.
Private Scholarships	(Undergraduate and Graduate) Need, merit, etc.,	The amounts vary according to the award.	No repayment obligation.	Various outside sources such as: Pullman Foundation, Ford Foundation. Refer to Northeastern's Office of Financial Aid.
Bureau of Indian Affairs	(Undergraduate and Graduate) Must be a Native American and show financial need.	\$500 to \$1500 or more, depending upon monies available to the bureau.	No repayment obligation.	Directly from student's tribal office.
Illinois Consortium for Educational Opportunity Program	(Graduate) Black, Hispanic, Native American or Asian-American who have been accepted to a graduate program at Northeastern Illinois University. Illinois residence and U.S. citizenship required.	Provides partial and full educational stipend for students pursuing degree objectives leading to teaching or administrative position in post-secondary education.	No repayment necessary if recipient fulfills teaching or administrative obligations.	Northeastern's Graduate College.
Federal Grants				
Federal Pell Grant	(Undergraduate) Must show need. Must be a U.S. citizen or permanent resident. Must be enrolled in a degree program. Must apply annually.	Applies to tuition and fees plus other educational expenses. 2002-03: \$ 4000 max year \$ 2000 max per term	No repayment obligation.	Northeastern's Financial Aid Office, high school guidance offices, post offices, libraries, etc.

PROGRAMS	ELIGIBILITY	DESCRIPTION OF PROGRAMS	REPAYMENT	OFFICE TO CONTACT
Federal Grants, cont'd				
Federal Supplemental Educational Opportunity Grant	(Undergraduate) Limited availability. Must show exceptional need. Must be enrolled in a degree program.	Program is considered a source of grant funds to supplement other federal aid programs such as the Federal Pell grant (described immediately above) if the student continues to show need.	No repayment obligation.	Northeastern's Financial Aid Office.
State Grants				
Illinois Monetary Award (ISAC)	(Undergraduate) Must be resident of Illinois and enroll for at least three credit hours. Based on need only. Must be enrolled in a degree program. Expires after ten (10) full-time terms of use.	Applies to tuition and fees only. Must apply annually.	No repayment obligation.	High school guidance departments or Northeastern's Financial Aid Office or ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Illinois Incentive for Access (ISAC)	(Undergraduate) First year freshmen with highest need. Must be eligible for ISAC Monetary Award.	\$250 per term for 2 terms.	No repayment obligation.	ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Illinois Veterans Grant (ISAC)	(Undergraduate or Graduate) Veterans must complete appropriate application form and furnish one copy of their official separation form (DD-214) which demonstrates: 1) Illinois residency until at least six months prior to induction; 2) served on active duty in the Armed Forces for at least one year at any time since 1940; and 3) returned to Illinois within six months after discharge.	Payment of tuition and some fees for an equivalent of four years of enrollment at any state university or Illinois public community college.	No repayment obligation.	Northeastern's Financial Aid Office or ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Illinois National Guard/ Naval Militia (ISAC)	(Undergraduate and Graduate) Enlisted member who has served at least one year in the Illinois National Guard or Naval Militia.	Payment of tuition and some fees at any state school. Students may enroll full or part-time.	No repayment obligation.	Contact the Illinois Army National Guard Information or ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015, (847) 948-8500.
Arthur F. Quern Information Technology Grant (ISAC)	Resident of Illinois, enrolled at least half-time in an eligible undergraduate computer science program, must file FAFSA.	Up to \$2,500 per year for 2 years.	None	ISAC, 1755 Lake Cook Rd., Deerfield, IL 60015-5209, (847) 948-8500.
Federal Work Program				
Federal Work-Study Employment	(Undergraduate and Graduate) Enrolled full or half-time. Eligibility of students is determined by approved needs-analysis methods. Must be enrolled in a degree program.	Federally funded on- or off-campus employment. Off-campus employment is arranged through the Office of Student Employment with public and/or private not-for-profit agencies operating in the public interest.	Not applicable.	Northeastern's Office of Student Employment (D-024).
Institutional Work Program				
Student Aide Employment	(Undergraduate and Graduate)	All enrolled students are eligible to apply for part-time on-campus employment.	Not applicable.	Northeastern's Office of Student Employment (D-024).
Federal Loans				
Federal Perkins Loan	(Undergraduate and Graduate) Enrolled full or half-time. Must be enrolled in a degree program. Must show need.	Maximums: Undergraduate: \$4000/yr; \$20,000 total; Graduate: \$6000/yr; \$40,000 total (including amounts borrowed as undergraduate).	Long-term repayment; 5% interest; cancellation of debt privileges under certain specific conditions.	Northeastern's Financial Aid Office.

PROGRAMS	ELIGIBILITY	DESCRIPTION OF PROGRAMS	REPAYMENT	OFFICE TO CONTACT
Federal Loans, cont				
<i>Federal Family Educational Loans:</i>				
Stafford Loans (Subsidized & Unsubsidized)	(Undergraduate and Graduate) Enrolled full or half-time. Must be citizen or permanent resident of the United States.	Dependent undergraduate loan limits according to academic level: \$2,625 to \$5,500 per yr. Independent undergraduate loan limits according to academic level: \$2,625 to \$10,500 per yr. Graduate loan limits according to academic level: \$8,500 to \$18,500 per yr.	Long-term repayment (no cancellation privilege for teachers). Rate varies every July 1 st ; not to exceed 8.25%.	Northeastern's Financial Aid Office.
PLUS Loans (Parent Loan for Undergraduate Students)			The full loan amount plus interest must be repaid. The first payment is due within 60 days after the final disbursement of the loan (unless a deferment is obtained).	Northeastern's Financial Aid Office.
Institutional Loan				
Emergency Loan Fund (Northeastern)	(Undergraduate and Graduate) Must have emergency need and a validated bill for the current term.	Maximum \$150.	Thirty-day repayment, no interest. \$1.50 service charge.	Northeastern's Financial Aid Office or Loan Office.

NEIU Foundation Awards

The Northeastern Illinois University Foundation annually awards nearly \$70,000 in scholarships supported by the generous contributions of University alumni, faculty, staff and friends. Some scholarships are based on financial need. Some are merit-based, awarded to students whose ability to contribute to campus life is significant because of their academic potential or talent in a particular field.

To be considered for Foundation scholarships awarded by the University Scholarship Committee, students should contact the Director of Scholarships/Retention.

University Scholarship Committee

NEIU Presidential Scholarship
Elvina David Scholarship
Northeastern Illinois University - Daniel L. Goodwin -
Northeastern Illinois University Foundation Scholarship
Hilton and Shirley Leibow Scholarship
A. and E. Kaplan Foundation Scholarship
Professor Bonnie B. Busse Memorial Merit Scholarship
Commonwealth Edison Scholarship
Ronald Williams Memorial Scholarship
Daniel K. Kuzuhara Hope Center Award in Psychology
Jerome M. Sachs Tribute Scholarship
Arturo Najera Scholarship
Sherman P. Appel Scholarship
Paula M. Levy Scholarship
Jorge Rodriguez Scholarship
Mexican-American Scholarship
Bernard and Ethel Rattner Memorial Scholarship
Charas Kinkle Center for Inner City Studies Scholarship
Golden Babe Scholarship
Jenny and Edward Harju Memorial Scholarship
Class Gift Scholarship

To be considered for Foundation scholarships awarded by a College or Department, students should contact the individual College or Department.

College of Business Management

S B Power Tool Company Scholarship
Charas Kinkle Scholarship

Charas Kinkle Business Scholarship
Elaine Helman Award
Russell C. Eustice Prize

Art Department

Frank Fritzman Memorial Award
Clarice Hallberg Memorial Award

Department of Foreign Languages and Literatures

Calixto C. Masó Scholarship
Jewell Berlinger Memorial Scholarship

Department of Health, Physical Education, Recreation and Athletics

Chuck Kane Memorial Merit Scholarship
Gus Ziagos Memorial Scholarship

Department of Music and Dance

Joan Sachs Memorial Scholarship
Harold E. Berlinger Music Scholarship
Northeastern Illinois University Scholarship for Pianists

English Department

Jack B. and Lily G. Rose Award

Physics Department

Peter Speltz Memorial Award

Returning Adults Program

Mary Louise Kooyumjian Memorial Scholarship

Sociology Department

Vera Milam Memorial Scholarship
Sienkowski-Sociology Scholarship

HEALTH SERVICE

The Health Service Office provides health education and first aid for the university students. Registered nurses are on duty 7:30 a.m. - 5 p.m. Monday, Tuesday and Wednesday and 7:30 a.m. - 4 p.m. Thursday and Friday. A nurse practitioner is available 20 hours a week to provide exams.

The Student Health Service Fee provides students with services, tests and literature throughout the academic year.

Student Health Insurance

All full-time undergraduates are automatically covered by Student Health Insurance, and the semester cost is included in their fees. Students who have equal or better health insurance may cancel the insurance fee by completing a waiver form and by providing proof of coverage from an alternate insurance carrier. This information will need to be verified by the university cashier's office prior to the waiver acceptance.

Part-time and graduate students may apply for this coverage by paying the insurance premium to the cashier when paying their tuition bill. All students who wish to insure their dependents must apply for this coverage by completing an application form in Health Service, extension 5800, and sending both the application form and premium to the insurance carrier. Insurance cards may be picked up in Health Service.

PLACEMENT OFFICE

The Placement Office assists Northeastern students in developing appropriate career options, by referring undergraduates (typically, late sophomores and juniors) to internship and co-operative education opportunities. The office encourages students to explore careers in real-world settings. The office also prepares soon-to-graduate seniors and graduate students for appropriate job opportunities. Placement Office professional staff members assist students in selecting and using the resources available in the Placement Office. The Placement Office web site (www.neiu.edu/CarServ.htm) includes current job listings, information about upcoming job fairs, direct links to key employers, sample resumes, cover letters, workshop schedules and links to dozens of career, internship and employment sites on the internet. They can be reached at 773-442-4680.

Student job seekers also receive specialized services in resume writing, job search and interview skills workshops, opportunities for on-campus interviews by company/agency recruiters, access to job fairs held throughout the Chicagoland area, job market reports and salary surveys. Education majors, during their student teaching semester, are invited to attend seminars on placement opportunities in teaching and receive detailed instructions for establishing professional teacher credential files. All first semester seniors should register for Placement Office services.

PUBLIC SAFETY

The Office of Public Safety, consisting of the University Police and University Parking Office, is responsible for fostering a safe campus environment for all university constituents. The University Police are responsible for crime prevention,

law enforcement services on the campus, the security of the university buildings, emergency response and the administration of university key records. They are open 24 hours a day, 7 days a week and located in the annex building on the northwest corner of the campus. The University Parking Office is responsible for the sale and administration of parking permits, maintenance of parking meters, and parking enforcement. They are located in the first floor lobby of the Physical Education Building. **To contact the police in an emergency, dial ext. 5511 on campus. The non-emergency extension is 4100. From off-campus, they can be reached at (773) 442-4100.**

STUDENT EMPLOYMENT OFFICE

Northeastern students seeking part-time or summer employment, on or off campus, may apply at any time through the Student Employment Office, located downstairs in Room D-012, at extension 4697. Approximately 900 placements are made each year.

Jobs are available to help students meet expenses, gain career-related experience, or both. Certain jobs, such as those provided by the Federal Work Study Program, are based on need demonstrated through an approved Financial Aid application. Other University jobs (Student Aide Program), are open to all students who are enrolled at least half time regardless of their financial circumstances. Off campus jobs in the private sector (Job Location Program) are also available through the Student Employment Office. All jobs are posted on the large bulletin boards north of the entrance to the Office of Admissions.

STUDENT ACTIVITIES OFFICE

The Student Activities staff is committed to helping students make the most of their out-of classroom time while at Northeastern. Involvement in student activities can enhance students' college experience in a number of ways. Some of these benefits include: social interaction — meeting others and making new friends; educational enhancement — balancing the students' academic schedule with activities that expand their cultural awareness; values clarification — exploring new interests that help students clarify their personal ethics; and leadership skills development that can help students in their career and current and future civic involvements. College provides students the best setting to explore their potential, take more risks, and try new experiences. Please don't hesitate. Get involved!

Many services for students and student organizations are provided, including:

- Leadership workshops and organizational skills development
- Help in program planning
- Student Organization Newsletter
- New Student Week programs
- Student Organization Development Program

The office is located on the second floor of the Student Union in room SU-207. The phone number is (773) 442-4660.

Student Government

The Student Government Association is comprised of 25 elected students who represent the interests of Northeastern students to the Board of Trustees, administration and faculty. The Student Government Association is a part of the shared governance system of the University, which places students in positions of important representation on a wide variety of committees whose decisions affect all aspects of the campus community.

Student Organizations

With more than 60 student organizations registered on campus representing a wide range of interests, students should have little trouble finding a group whose activities meet their needs. The Student Activities Office staff can provide a list of organizations and advisors.

Office of Scholarship/Retention

Students are often faced with the dilemma of how they will pay for their education. For many, the financing of a university education becomes a barrier to learning. With this in mind, the mission of the Office of Scholarships/Retention is to lead in the promotion and awarding of university scholarship funds to deserving students. Therefore, the goal is to assist in lessening the economic burden that many students seek to overcome. Along with the administration of scholarships, this office is also involved in implementing activities that will

encourage the persistence and success of our students.

For additional information, the Office of Scholarships/Retention can be contacted at 773.442.4606 or via e-mail at M-Morrow@neiu.edu.

WOMEN'S SERVICES and RETURNING ADULT PROGRAM

The Office of Women's Services provides guidance, advocacy and referrals to women students, faculty and staff members. Women's Services offers assistance with the unique issues that women may encounter in their academic and personal lives. Further, the office sponsors support groups, workshops, and classes concerning such topics as assertiveness, sexual assault, self-defense, and women's health issues. Sexual harassment complaints should be directed to the Office of Women's Services, extension 4870, and to the Affirmative Action Office. The Office of Women's Services is located in the D-Building, lower level in D-017 and D-017A.

The Returning Adult Program (RAP) is also offered. This program helps both male and female students through the initial re-entry period and role transition of returning to college. RAP offers activities such as orientation sessions, study strategies, workshops, and support groups for single parents and returning adults. RAP is located in the D-Building, lower level in D-017 and D-017A and can be reached at extension 4873.

ADMISSIONS

GENERAL INFORMATION

Factors considered in evaluating an applicant for admission to Northeastern include: the high school program of studies, rank in class, standardized test scores, recommendations from high school personnel and previous college work. A non-refundable application fee of \$25.00 must be submitted with all applications. Applications received without the required fee will not be processed.

ADMISSIONS REQUIREMENTS AND APPLICATION PROCEDURES

CLASSIFICATION AND DEFINITION	REQUIREMENTS FOR ADMISSION	HOW TO APPLY FOR ADMISSION
<p>Freshman</p> <p>A student currently attending high school or a high school graduate who has never attended a college or university.</p> <p style="text-align: center;">or</p> <p>A student who has satisfactorily passed the G.E.D.</p>	<p>The applicant must have graduated from high school or have a passing grade on the G.E.D. ACT or SAT scores are required of all incoming freshmen unless they are 21 years of age or older. Admission is based on high school rank in class, supporting ACT or SAT scores, and high school program of studies. To be admitted, students must rank in the top half of their graduating class, or have a minimum enhanced ACT composite score of 19, or a minimum SAT score of 890, and successful completion of a required program of high school studies.</p>	<ol style="list-style-type: none"> 1. Submit application for admission with a \$25.00 application fee to the Office of Admissions. 2. Arrange to have an official high school or GED transcript from each high school attended and ACT/SAT scores sent directly to the Office of Admissions. 3. If you are currently attending high school, request a copy of your "courses in progress" be sent along with your transcript. 4. If you are a veteran, you must submit a photocopy of your DD214. 5. Resident Aliens must submit a photocopy of both sides of their Resident Alien card.

SUBJECT REQUIREMENTS FOR FRESHMEN

In addition to meeting the ACT or class rank requirements for admission, freshmen must also have completed the following high school subjects in accordance with the Illinois Board of Higher Education requirements:

- 4 years of English (emphasizing written and oral communications and literature)
- 3 years of Social Science (emphasizing history and government)

3 years of Mathematics (introductory through advanced algebra, geometry, trigonometry, or fundamentals of computer programming)

3 years of Science (laboratory science)

2 years of foreign language, music, art or vocational education (only one vocational education course accepted)

PROVISIONAL ADMISSION

First time freshmen and transfer applicants with fewer than 30 hours of transferable credit, who meet all criteria for admission except high school subject requirements, may be admitted on a provisional basis.

CLASSIFICATION AND DEFINITION	REQUIREMENTS FOR ADMISSION	HOW TO APPLY FOR ADMISSION
<p>Transfer</p> <p>A student who has at some time registered at an institution of higher learning following high school graduation whether or not any college- level work was completed.</p>	<p>The applicant must have an overall "C" average in all course work attempted and be in good academic standing at the last school attended full time. Students with less than 30 semester hours of college credit must also meet freshman requirements.</p>	<ol style="list-style-type: none"> 1. Submit application for admission with a \$25.00 application fee to the Office of Admissions. 2. Arrange to have official transcripts sent directly to the Office of Admissions from all colleges or universities attended. 3. If you have earned less than 30 semester hours of college credit, you must also have an official high school transcript and ACT/SAT scores sent from your high school. ACT/SAT scores are not required if you are 21 years of age or older. 4. If you are a veteran, you must submit a photocopy of your DD214. 5. Resident Aliens must submit a photocopy of both sides of their Resident Alien card.
<p>Second Bachelor's Degree</p> <p>A student who has earned a bachelor's degree and wishes to earn a second undergraduate degree. NOTE: Students will receive registration priority after undergraduate students. Tuition and fees will be assessed at the graduate student rate.</p>	<p>Evidence of graduation from a regionally accredited college or university.</p>	<ol style="list-style-type: none"> 1. Submit undergraduate application form with a \$25.00 application fee to the Office of Admissions. 2. Arrange to have an official transcript sent showing graduation from the college or university which awarded the previous degree. 3. Resident Aliens must submit a photocopy of both sides of their Resident Alien card.
<p>Readmission</p> <p>Any former Northeastern undergraduate who has not attended for three consecutive terms must apply for readmission. Students who were dropped for poor scholarship at the time of last attendance must petition the Academic Standards Committee in writing.</p> <p>NOTE: Undergraduate students who reenter the university after an absence of three or more full terms must meet the requirements of the current catalog.</p>	<p>Good standing at the time of last attendance at Northeastern. Students who have enrolled at other institutions since leaving Northeastern must have an overall "C" average and be in good standing at those institutions.</p>	<ol style="list-style-type: none"> 1. Submit an application for admission with a \$25.00 application fee to the Office of Admissions. 2. Arrange to have official transcripts sent from any colleges or universities attended since leaving Northeastern. 3. Resident Aliens must submit a photocopy of both sides of their Resident Alien card with each application. 4. International Students must submit a new/ updated Northeastern Financial Statement and required supporting documents.

**CLASSIFICATION
AND DEFINITION**
**REQUIREMENTS FOR
ADMISSION**
**HOW TO APPLY
FOR ADMISSION**

International Students

Students from other countries who carry an F or J visa.

International students are eligible for admission to degree programs only and may not be admitted as students at large.

NOTE: Students must complete their files by the published deadline for the term in which the student is applying to ensure proper processing of I-20 forms. An I-20 will not be issued until the student has received notification of admission from Northeastern's Office of Admissions. At no time will any student on an F or J visa be eligible for resident tuition assessment.

Students who are out-of-status will not be considered for admission.

You must meet the admission requirements for freshmen or transfer students, whichever is applicable.

You must pass the written version of the TOEFL* test with a minimum score of 500 or you must pass the computerized version of the TOEFL* test with a minimum score of 173.

You must file a Northeastern Illinois University Financial Statement that indicates your sponsor has sufficient finances to support you for the duration of your stay in the United States.

*Test of English as a Foreign Language.

1. Submit application for admission with a \$25.00 application fee to the Office of Admissions.
2. Submit official copies of all educational records. Certified translations must accompany all documents in languages other than English. All transcripts must be evaluated by Educational Credential Evaluators, Inc.
3. Arrange to have official TOEFL scores sent to the Office of Admissions.
4. Submit complete and notarized Northeastern Illinois University Financial Statement. Submit sponsor's bank and/or employment letter. All financial statements and supporting documents must be in exact U.S. dollar amounts. Bank certification letters must reflect savings or Certificates of Deposit.
5. If applicant is currently in the United States, a copy of the I-94 must also be submitted.
6. You must indicate your home country address on the application form.

NOTE: All of these items are necessary before you can be considered for admission. An I-20 will not be issued until you have been admitted to the university.

**Student-at-Large
With Degree**

Students with bachelor's or master's degrees who wish to enroll at Northeastern as non-degree candidates. Students who wish to enter the Graduate College must make formal application to the Graduate College. A maximum of nine credit hours taken in this at-large classification may apply toward a master's degree.

Courses are not automatically accepted in a master's program. Such work would have to correspond to specific program requirements and satisfy all scholastic requirements of the Graduate College.

Students-at-Large with degree are not eligible to receive Financial Aid.

Graduation from a regionally accredited college or university.

NOTE: Students who have graduated from Northeastern are eligible to register as students-at-large and need not submit an application.

1. Submit Student-at-Large application for admission with a \$25.00 application fee to the Office of Admissions.
2. If degree awarded is from a country outside of the United States, official transcripts must be submitted to the Office of Admissions.
3. Resident Aliens must submit a photocopy of both sides of their Resident Alien card.

NOTE: If you have previously attended Northeastern Illinois University as an undergraduate student, you must submit proof of your degree to the Office of Admissions.

CLASSIFICATION AND DEFINITION	REQUIREMENTS FOR ADMISSION	HOW TO APPLY FOR ADMISSION
<p>Student-at-Large Without Degree</p> <p>Undergraduate students working toward a baccalaureate degree at another college or university. NOTE: Students-at-large interested in earning an undergraduate degree at Northeastern must submit an application for admission and meet undergraduate admission requirements.</p> <p>Students-at-Large without degree are not eligible to receive Financial Aid.</p>	<p>Graduation from high school or Satisfactory completion of the G.E.D.</p>	<ol style="list-style-type: none"> 1. Submit Student-at-Large application for admission with a \$25.00 application fee to the Office of Admissions. 2. Resident Aliens must submit a photocopy of both sides of their Resident Alien card. <p>NOTE: Transcripts are not required.</p>

Veterans

Persons returning from at least one year's active military service will be readmitted or reinstated regardless of previous scholastic record, provided Northeastern Illinois University is the first institution of higher education attended following release from service.

APPLICATION PROCESSING

Applications are processed continuously throughout the year in accordance with published deadlines for each term. Applicants who send all required credentials well in advance of the term for which admission is being sought benefit by receiving earlier notification of admission decisions, and may be eligible for advance registration.

International students who carry F or J visas must complete their files by the published deadline for the term in which the student is applying in order to ensure proper processing of the I-20 form.

All transcripts and other documents submitted in support of a student's application for admission become the property of the university. The Admissions Office will retain these credentials for a period of one year from the time of initial application. At the close of this period, all such documents submitted by applicants who do not enroll at Northeastern, will be destroyed.

The discovery of omitted previous postsecondary attendance may be cause for dismissal. An administrative hold will be put on the student's record. Petitions to reenter will be reviewed by the Admissions Committee.

Transcripts which are hand carried by students in sealed envelopes will be accepted by the Admissions Office as "unofficial" documents. If within three weeks after the beginning of the term of admission an "official" transcript is not received directly from the other institution, further registration will not be permitted.

ADMISSION THROUGH PETITION

Undergraduate applicants who do not meet stated admission criteria may petition the Committee on Admissions in writing. Recommendation letters from counselors may be submitted in support of the student's application. Each applicant's record will be reviewed on an individual basis.

DUAL ADMISSION PROGRAM

Northeastern Illinois University has signed an agreement with the College of Lake County, William Rainey Harper College, College of DuPage, City Colleges of Chicago, Joliet Junior College, Oakton College, MacCormac College, Morton College, St. Augustine College, and Triton College that allows for concurrent admissions to the community college and Northeastern Illinois University. Under the agreement, students who wish to participate must meet the admissions requirements of both institutions as well as admission requirements of the NEIU program in which they desire to major or minor. This agreement simplifies the transfer process. Both institutions will provide students with orientation and other services to guarantee a seamless transfer process.

Students who wish to be admitted to Northeastern Illinois University will submit an application to both NEIU and to one of the above community colleges. The applications and academic credentials will be reviewed by both institutions. Students who enroll in the program will have full access to NEIU's offices of Admissions and Records, Academic Advising, and Financial Aid. Students must maintain continuous full or part time enrollment with a 2.0 grade point average to remain eligible for the dual admissions program.

Students who are interested in this program should contact School and College Relations in the Office of Admissions and Records at Northeastern Illinois University.

In compliance with federal regulations, Northeastern Illinois University discloses our graduation rate to students, prospective students, and the general public, upon their request. Information regarding our graduation rate can be found at www.neiu.edu/~isp, (click on Data Digest, then, Student Right To Know). A printed copy may be obtained by sending a written request to Northeastern Illinois University, Admissions and Records Office, Graduation Rate, 5500 N. St. Louis, Chicago, Illinois, 60625.

TRANSFER OF COLLEGE CREDIT

Beginning with admission to the Fall 1993 semester, students graduating with an approved ICCB (Illinois Community College Board) Model A.A. or A.S. degree prior to transferring will be granted junior standing and will have fulfilled Northeastern Illinois University's General Education requirements.

- For admission purposes only, **all** college level course work at post-secondary institutions previously attended will be considered in the calculation of grade point average. Repeated courses are accepted only once in transfer. In the case where a repeated course is one which the student failed initially, the "F" grade will not be counted in the grade point average. This will apply to one "F" grade per course repeated. Any conflict in identifying repeated courses will be settled by contacting the appropriate academic department if the credentials analyst is unable to determine the matter in question.
- Courses from unaccredited or nonaccredited postsecondary institutions are **nontransferable**. The reference source used to determine whether an institution meets Northeastern Illinois University's accreditation standards is The Official Roster of the Association, published by the North Central Association.
- Transfer credit in technical and vocational areas will be accepted if the course work is academic in nature and is designed to transfer into a baccalaureate program at Northeastern. In general, technical and vocational courses are acceptable if comparable programs or areas of study are offered at this university.
- Courses from other colleges or universities must have been completed at the appropriate level to be eligible for transfer credit consideration. Developmental and remedial type courses are examples of courses **not** transferable.
- "Credit by examination" listed on transcripts must be stated in terms of **Credits Awarded** to be accepted by Northeastern in transfer.
- Credit for prior learning will **not** be accepted for transfer credit into Northeastern's traditional programs nor will prior learning credit be counted when students change from non-traditional to traditional programs of study while at Northeastern.
- Credit earned at institutions not accredited but approved for candidacy status by the recognized regional accrediting agencies will be accepted by Northeastern on a conditional basis; course work will be evaluated and recorded on a student's Northeastern academic record following the completion of 30 semester hours of work at Northeastern with a minimum grade average of "C".
- Science and education courses which are 15 years old or more are not transferable to this university without special departmental and/or college approval.

- Business courses which are six years old or more are generally not applicable toward a Business and Management major for reasons of datedness.
- A maximum of 30 credit hours of ROTC/Military Science course work is acceptable as elective transfer credit subject to the credit being properly recorded on the student's transcript.
- Any transfer student from an accredited college/university must earn as a **minimum** the last 30 hours of course work **in residence** at Northeastern to be eligible to graduate.
- **Community College work:** All applicable courses taken at a community college are reflected on the Evaluation of Transfer Credit form. However, credit hours beyond 60 will not be counted toward graduation.
- **Senior College work:** All applicable courses taken at a senior institution are reflected on the Evaluation of Transfer Credit form. However, credit hours beyond 90 will not be counted toward graduation. Students must earn the last 30 consecutive hours at Northeastern in order to meet graduation residency requirements.

An evaluation of transfer credits is prepared by the Admissions Office for all transfer students admitted to Northeastern. This evaluation statement should be presented to the student's departmental advisor at the time the student declares his major (see below). Courses accepted by the University in transfer do not necessarily meet specific program requirements.

Grades of "D" are accepted in transfer in limited cases but no more than 6 credits may be counted toward meeting General Education requirements. Grades of "D" will not be accepted in a student's major, minor or professional sequence.

Course work transferred for credit in the student's major is subject to departmental and/or college approval.

Students attending community colleges should check with their community college counselors to select appropriate courses for transfer to Northeastern.

Illinois Articulation Initiative (IAI)

Northeastern Illinois University is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the completed Illinois General Education Core Curriculum between participating institutions. Successful completion of the General Education Core Curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for an associate or baccalaureate degree have been satisfied and allows students to transfer this portion of an associate or baccalaureate degree from one participating IAI Institution to another without incurring a loss of credit. This agreement is in effect for students entering as a first time student in summer 1998 (and thereafter). For more information visit the IAI web site at <http://www.iTransfer.org>.

The Illinois Transferable General Education Core curriculum consists of 12 to 13 courses, or 37 to 41 hours of credit, within a five-category designation. The general requirements are as follows:

Communication	3 courses (9 credits)
Humanities and Fines Arts	3 courses (9 credits)
Mathematics	1 to 2 courses (3 to 6 credits)
Physical and Life Sciences	2 courses (7 to 8 credits)
Social and Behavioral Sciences	3 courses (9 credits)

Illinois Articulation Initiative Course Requirements:

Communication (3 courses, 9 semester hours)

IAI Course Number and Title	Northeastern's Course and Credit Hours
C1 900 Writing Course Sequence	ENGL 101 3 hrs.
C1 901 Writing Course Sequence	ENGL 102 3 hrs.
C2 900 Oral Communication	SPCH COMM 101 3 hrs.

A grade of C or better is required in C1 900, ENGL 101 or C1 901, ENGL 102.

Humanities (3 courses, 9 semester hours)

IAI Course Number and Title	Northeastern's Course and Credit Hours
F1 900 Music Appreciation	MUS 101 3 hrs.
F1 906 Appreciation of Dance as an Art Form	MUS DANC 101 3 hrs.
F1 907 Theatre Appreciation	SPCH PERF 130 3 hrs.
F2 900 Art Appreciation	ART 101 3 hrs.
F2 901 History of Western Art I	ART 106 3 hrs.
H3 902 Introduction to Drama	ENGL 202 3 hrs.
H3 903 Introduction to Poetry	ENGL 201 3 hrs.
H3 905 Introduction to Shakespeare	ENGL 220 3 hrs.
H3 912 Survey of British Literature I	ENGL 221 3 hrs.
H3 913 Survey of British Literature II	ENGL 222 3 hrs.
H3 914 Survey of American Literature I	ENGL 218 3 hrs.
H3 915 Survey of American Literature II	ENGL 219 3 hrs.
H4 900 Introduction to Philosophy	PHIL 102 3 hrs.
H4 904 Ethics	PHIL 213 3 hrs.
H4 905 Philosophy of Religion	PHIL 211 3 hrs.
H4 906 Introduction to Logic/Critical Thinking	PHIL 101 3 hrs.
HF 907D Cultural Expression of Gender	WSP 101 3 hrs.(+)

One Humanities and one Fine Arts course is required.
 + Course examines aspects of human diversity within the United States

Mathematics (1 course, 3 semester hours)

IAI Course Number and Title	Northeastern's Course and Credit Hours
MI 900 College-level Calculus	MATH 107 4 hrs.
MI 900 College-level Calculus	MATH 202 4 hrs.
MI 900 College-level Calculus	MATH 203 4 hrs.
MI 905 Discrete Mathematics	MATH 251 3 hrs.

Grade of C or better is required to fulfill Northeastern's Math Competency Requirement.

Physical and Life Sciences (2 courses, 7 semester hours)

IAI Course Number and Title	Northeastern's Course and Credit Hours
P1 900L General Education Physics	PHYS 110 3 hrs.
P1 902L General Education Chemistry	CHEM 110 3 hrs.
P1 903 Chemistry and Society	CHEM 103 3 hrs.
P1 905L Earth Science	ESCI 121 3 hrs.
P1 906 Introduction to Astronomy	PHYS 103 3 hrs.
P1 908 Environmental Geology	ESCI 123 3 hrs.
L1 900L General Education Biology	BIOL 100 3 hrs.
L1 905 Environmental Biology	BIOL 104 3 hrs.

One Life Science and one Physical Science course is required, one of which must be a lab.

Social and Behavioral Science (3 courses, 9 semester hours)

IAI Course Number and Title	Northeastern's Course and Credit Hours
S1 901N Introduction to Cultural Anthropology	ANTH 212 3 hrs.(++)
S1 902 Introduction to Physical Anthropology	ANTH 215 3 hrs.
S2 900 United States History I	HIST 214 3 hrs.
S2 901 United States History II	HIST 215 3 hrs.
S2 902 History of Western Civilization I	HIST 111A 3 hrs.
S2 903 History of Western Civilization II	HIST 111B 3 hrs.
S2 906N History of Africa I	HIST 111E 3 hrs.
S2 908N History of Asia and the Pacific I	HIST 111C 3 hrs.(++)
S2 910N History of Latin America	HIST 111D 3 hrs.(++)
S3 901 Principles of Macroeconomics	ECON 215 3 hrs.
S3 902 Principles of Microeconomics	ECON 217 3 hrs.
S4 900N Introduction to Human Geography	G&ES 104 3 hrs.(++)
S5 900 American US National Government I	PSCI 216 3 hrs.
S5 903 Principles of Political Science	PSCI 210 3 hrs.
S5 905 Comparative Government	PSCI 251 3 hrs.
S6 900 General Psychology I	PSYC 100 3 hrs.

S6 902 Life-span Developmental Psychology	PSYC 110	3 hrs
S7 900 Introduction to Sociology	SOC 100	3 hrs
S7 902 Marriage and Family	SOC 214	3 hrs

Two disciplines must be represented from the following list: Anthropology (S 1), History (S2), Economics (S3), Geography (S4), Political Science (S5), Psychology (S6), Sociology (S7), Social Psychology (S8)

++ Course examines aspects of human diversity from a non-U. S./non-European perspective

Those students who have not completed the entire General Education Core Curriculum prior to transferring to Northeastern will be required to complete Northeastern's General Education program. However approved IAI courses taken at participating schools will be used towards Northeastern's General Education program.

Students transferring to another institution, who have completed at least 37 semester hours, may request an audit, via a transcript request, of their records for completion of the Illinois Transferable General Education Core Curriculum. If complete, the University will certify completion of the Illinois Transferable General Education Core requirements on the student's transcript.

CREDIT FOR MILITARY SERVICE

Three credit hours are awarded to veterans who have been honorably discharged and have served a minimum of one year on active duty. Veterans must submit a copy of their DD214 to the Admissions Office at the time of application for admission.

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

Credit for service schools successfully completed may be evaluated upon request. The student must file the Request for Evaluation form available at the Admissions/Records Information counter.

No college credit is awarded for the college-level General Educational Development (G.E.D.) Test.

ROTC PROGRAMS

Air Force ROTC

Students may enroll in the Air Force ROTC program at the Illinois Institute of Technology (IIT). The four-year and two-year programs allow qualified men and women the opportunity to earn commissions as Second Lieutenants in the U.S. Air Force upon graduation and completion of Air Force ROTC. Federal scholarships are available to qualified students of either program and pay full tuition and fees, \$228 a year towards textbooks, and \$100 monthly subsistence allowance.

State of Illinois ROTC scholarships are also available to qualified students and pay full tuition. All members of the Professional Officer Course also receive the \$100 monthly subsistence allowance. The Air Force ROTC courses are taught on the IIT campus. For more information on Air Force ROTC, call (312) 567-3535/3526 or stop by 3201 S. Michigan (IIT Military Science Building) in Chicago.

Army ROTC

Northeastern students may participate in Army Reserve Officers' Training Corps in conjunction with the University of Illinois, Chicago. The Reserve Officers' Training Corps prepares students for service as Army Officers. Additionally, it provides invaluable leadership and managerial instruction which can be applied to any occupation. Successful completion of the program results in a commission as a Second Lieutenant in the Regular Army, Army National Guard or Army Reserve. During the first two years, (Basic Course), the fundamentals of military organization and leadership are taught, and students have a chance to see what the program entails. Students enrolled in the Advanced Program during the junior and senior years are paid \$100 per month. There are special two-year programs available for academic juniors, graduate students, Veterans and members of the Army Reserve components. Any qualified Northeastern student can apply for an Illinois State Scholarship (ROTC tuition waiver). Up to ten of these scholarships are available per school year. Basic Course ROTC students who receive one of these scholarships incur absolutely no military obligation. All ROTC courses may be considered part of a department's curriculum. For further information contact: University of Illinois, Chicago Army ROTC (312) 996-3451.

CREDIT FOR ADVANCED PLACEMENT

Credit for advanced placement may be granted to students who have participated in the College Entrance Examination Board "Advanced Placement Program" in their high schools. Students who intend to enter the university under this program should arrange to have their advanced placement examination records sent to the Office of Admissions and Records.

CREDIT THROUGH COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Credit for successful performance on the general examination may be granted to students who have participated in the College Level Examination Program. Credit is awarded for scores of 50 or higher. A maximum of 30 hours of lower division credit may be awarded through CLEP. In addition, no more than 60 credit hours will be accepted toward graduation from a community college including CLEP general examination credits.

ADMISSION TO MAJOR PROGRAMS

Undergraduate applicants are first approved for admission to the university. It is then the student's responsibility to make application to the academic department where he/she wishes

to major, to the College of Education if pursuing a teacher education program, and to the College of Business and Management if pursuing a Business degree. Students who are readmitted to the University must redeclare their major.

The University requires all undergraduate students to declare a major by the time they have earned a total of 45 credit hours. Students who have not completed the prerequisites necessary to declare a major must declare a pre major.

RESIDENCY STATUS

For the purpose of this regulation an “adult” is considered to be a student eighteen years of age or over; a “minor” student is a student under eighteen years of age. The term “the state” means the state of Illinois. Except for those exceptions clearly indicated in this regulation, in all cases where records establish that the person does not meet the requirements for resident status as defined in this regulation, the nonresident status shall be assigned.

1. Residency Determination

Evidence for determination of residence status of each applicant for admission to the university shall be submitted to the office responsible for admissions at the time of application for admission. A student may be reclassified at any time by the university upon the basis of additional or changed information. However, if the student is classified in error as a resident student, the change in tuition shall be applicable beginning with the term following the reclassification; if the student is classified in error as a nonresident, the change in tuition shall be applicable to the term in which the reclassification occurs, provided the student has filed a written request for a review in accordance with this regulation.

2. Adult Student

An adult, to be considered a resident, must have been a bona fide resident of the state for a period of at least six consecutive months immediately preceding the beginning of any term for which he/she registers at the university, and must continue to maintain a bona fide residency in the state, except that an adult student whose parents (or one of them if only one parent is living or the parents are separated or divorced) have established and are maintaining a bona fide residence in the state and who resides with them (or the one residing in the state) or elsewhere in the state will be regarded as a resident student.

3. Minor Student

The residence of a minor shall be considered to be, and to change with and follow:

- a. That of the person’s parents, if they are living together, or living parent, if one is dead; or
- b. if the parents are separated or divorced, that of the parent to whom the custody of the person has been

awarded by court decree or order, or, in the absence of a court decree or order, that of the father unless the person has continuously resided with the mother for a period of at least six consecutive months immediately preceding his/her registration at the university, in which latter event the person’s residence shall be considered to be that of his/her mother; or

- c. that of the adoptive parents, if the person has been legally adopted and, in the event the adoptive parents become divorced or separated, that of the adoptive parent whose residence would govern under the foregoing rules if that parent had been a natural parent; or
- d. that of the legally appointed guardian of the person if the minor resides with such guardian; or
- e. that of a “natural” guardian, such as a grandparent, adult brother or adult sister, adult uncle or aunt, or other adult with whom the person has resided and has been supported by for a period of at least six consecutive months immediately preceding his/her registration at the university for any term if the person’s parents are dead or have abandoned him/her and if no legal guardian of the person has been appointed and qualified.

4. Parent or Guardian

Except as provided in paragraph 10 of this regulation, no parent or legal or natural guardian will be considered a resident of the state unless the parent or guardian (a) maintains a bona fide and permanent place of abode within the state, and (b) lives within the state, except when temporarily absent from the state, with no intention of changing his/her legal residence to some other state or country.

5. Emancipated Minor

If a minor has been emancipated, is completely self-supporting, and actually resides in the state, the minor shall be considered to be a resident even though his/her parent or guardian may reside outside the state. An emancipated minor who is completely self-supporting shall be considered to “actually reside in the state of Illinois” if he/she maintained a dwelling place within the state uninterrupted for a period of at least twelve consecutive months immediately preceding the beginning of any term for which he/she registers at the university. Marriage or active military service shall be regarded as effecting the emancipation of minors, whether male or female, for the purposes of this regulation. An emancipated minor whose parents (or one of them if only one parent is living or the parents are separated or divorced) have established and are maintaining a bona fide residence in the state and who resides with them (or the one residing in the state) or elsewhere in the state will be regarded as a resident student.

6. Marriage of Students

- a. If a resident student marries a nonresident, then the resident student shall continue to be classified as a resident unless the student requests reclassification to a nonresident status.
- b. If a nonresident student marries a resident, then the nonresident student shall continue to be classified as a nonresident unless the student executes a declaration of residency, in such form as may be prescribed by the office responsible for admissions and requests reclassification to resident status.

7. Persons Without United States Citizenship

A person who is not a citizen of the United States of America, to be considered a resident must have permanent resident status with the United States Immigration and Naturalization Service or a visa that allows applicant to stay in the United States indefinitely. They must also meet and comply with all of the other applicable requirements to establish resident status.

8. Armed Forces Personnel

A person who is actively serving in one of the Armed Forces of the United States and who is stationed and present in the state in connection with that service and submits evidence of such service and station, as well as such person's spouse and dependent children, shall receive a waiver of the nonresident portion of tuition as long as such person remains stationed and present in Illinois and the spouse or dependent children of such person also live in the state. If such a person is transferred to a post outside the continental United States, but such person or the spouse and/or dependents of such person remain(s) registered at the university then such a waiver shall continue until such time as the person in service is stationed in another state within the continental United States.

9. Minor Children of Parents Transferred Outside the United States

The minor children of persons who have resided in the state for at least twelve consecutive months immediately prior to a transfer by their employers to some location outside the United States shall be considered residents. However, this shall apply only when the minor children of such parents enroll in the university within five years from the time their parents are transferred by their employer to some location outside the United States.

10. Staff Members of the University, Allied Agencies, and Faculties of State-Supported Institutions in Illinois

Staff members of the university and of allied agencies, and faculties of state-supported institutions of higher education in Illinois, holding appointment of at least one-quarter time, and their spouses and dependent children, shall be treated as residents.

11. Teachers in Public and Private Illinois Schools

Teachers in the private and public elementary and secondary schools in Illinois shall, if subject to the payment of tuition, be assessed at the resident rate during the term in which the staff member or teacher holds such an appointment at least one-quarter time. This privilege also extends to the summer session or off-term vacation immediately following the term for which such appointment was effective.

12. Definition of Terminology

To the extent that the terms "bona fide residence," "independent," "dependent," and "emancipation," are not defined in this regulation, definitions shall be determined by according due consideration to all of the facts pertinent and material to the question and to the applicable laws and court decisions of the state of Illinois.

Voter registration, filing of tax returns, proper license and registration for the driving or ownership of a vehicle, and other such transactions may verify intent of residence in a state. Neither length of university attendance nor continued presence in the university community during vacation period shall be constructed to be proof of Illinois residence.

The term "staff member" as used in this regulation shall mean a person appointed to an established position for specific amount of time at a salary commensurate with the percentage of time required, under an appointment requiring service for not less than three-fourths of the term. The term "staff member" as defined herein shall not apply to persons employed on an hourly basis in either an academic or non-academic capacity, nor to persons on leave without pay. Persons appointed to established civil service positions, whose rate of pay is determined by negotiation or prevailing rates, shall not be considered as being paid on an hourly basis.

13. Procedure for Review of Residency Status

A student who takes exception to the residency status assigned and/or tuition assessed shall pay the tuition assessed but may file a claim in writing to the Executive Director of Enrollment Services in the Office of Admissions and Records for a reconsideration of residency status and/or an adjustment of the tuition assessed. The written claim must be filed within 30 calendar days from the date of assessment of tuition or the date designated in the official university calendar as that upon which instruction begins for the academic period for which the tuition is payable, whichever is later, or the student loses all rights to a change of status and/or adjustment of the tuition assessed for the term in question. If the student is dissatisfied with the ruling in response to the written claim made within said period, the student may appeal the ruling by filing a written appeal with the office responsible for admissions within 20 days of receipt of notice of ruling. Such written appeal shall be forwarded by the office responsible for admissions to board legal counsel, who shall consider all evidence submitted in connection with the case and render a decision which shall be final.

STATEMENT OF FEES

Tuition and fees are as follows:

*Please note: Tuition and fees are assessed per credit hour up to a total of 16 credit hours.

Tuition Per Credit Hour

Undergraduate	\$110.00
Graduate	\$125.00
Non-Resident Undergraduate	\$220.00
Non-Resident Graduate	\$250.00
Fees Per Credit Hour	\$21.90

Tuition and Fees for Enrollment of 12 credit hours*

Undergraduate	\$1582.80
Graduate	\$1762.80
Non-Resident Undergraduate	\$2902.80
Non-Resident Graduate	\$3262.80

REFUNDS

Final dates for refunds upon complete withdrawal from all classes will be stated in the Schedule of Classes. A service charge will be deducted for processing refunds.

Health insurance and parking fees are not refundable.

TRANSCRIPT FEE

Students will be assessed a transcript fee during their first term of enrollment to support the production of transcripts upon request, up to a reasonable limit per student.

MANDATORY STUDENT FEES

Students registered at Northeastern Illinois University pay a variety of fees intended to enhance and facilitate many aspects of campus life.

Parking Fee—University students have three options regarding parking: to participate in the Level II parking program, to participate in Level I parking, or to waive out of the parking program entirely. Students who choose to participate in Level II parking will be assessed the parking fee based on credit hours enrolled. Students who desire to participate in Level I must sign a waiver form to opt out of the Level II parking program and independently purchase a Level I parking permit (forms obtained in the Cashier's Office). Students that do not want to participate in the parking program must sign a waiver form to opt out of the program. Waiver forms are included with the bills and are also available in the Cashier's Office.

The **Student Union Fee** helps support the Student Union which is the heart of the activity program on campus. It is the scene of lectures, discussions, concerts, dances, meetings, and other activities. The facilities include food services, lounges, and meeting rooms.

The **Student Activity Fee** is used to support the Student Government, student organizations and clubs, and the many activities, programs, media, and events sponsored by the above group.

Computer Resource Fee is dedicated to the enhancement of computer services available to students. Such purposes shall include the addition of computer workstations in a lab situation, additional "smart classrooms", and increased access

to all the networks and communications highway currently in place as well as those to be built in the future. There will be an increased availability of staff to assist students in learning to take advantage of the new and evolving information technologies.

The **Performing Arts Fee** helps to support university theatre and dance productions and musical concerts.

The **Campus Recreation Fee** supports a comprehensive recreation program, including intramurals, wellness and fitness programs, aquatics, sport clubs and informal recreation.

The **Health Service Fee** enables the university to provide first aid and health education to students.

Student-Health Insurance Fee—All full-time undergraduate students will automatically be covered unless they have an insurance plan equal to or better than the Northeastern student plan. If they have such coverage, proof of health insurance will be required along with a completed cancellation form which must be submitted to the cashier at the time of confirmation. The cancellation form must reach the cashier by the tenth day of classes. No cancellation is granted after the tenth day of classes. A waiver form, for this purpose, is included with the bill. It can also be obtained at the Cashier's Office.

RELEASE OF INFORMATION PERTAINING TO STUDENTS

In compliance with the Family Educational Rights and Privacy Act of 1974, as amended, the following policy outlines the procedures available for access to student records. This policy is intended to ensure the confidentiality of student records.

I. Definitions

- "Student" is defined as one who has attended or is attending Northeastern Illinois University and whose records are in the files of the University.
- "Education records" are those records which are directly related to a student and maintained by the institution or by a party acting for the institution. "Education records" do not include files made by and kept in the sole possession of the maker which are not accessible to any other person.
- "Directory information" includes name, address, telephone number, dates of attendance, enrollment status, level, previous institutions attended, major field of study, awards, honors, degrees conferred with dates, past and present participation in officially recognized sports and activities, physical factors (height and weight of athletes), prior military service, campus e-mail address, and date and place of birth. (See Section V, Release of Information).

II. Location of Education Records

All students have records in the Admissions/Records Office, D-111, maintained by the Executive Director of Enrollment Services.

Students may also have records in the following offices which are maintained by the administrative officer listed:

Academic Development	4-026	Dean
* Non-Traditional Degree Programs	B-151	Director
Dean of Students	Suite B-119	Dean
* College of Arts and Sciences	S-158A	Dean
* College of Education	4-044	Dean
* College of Business and Management	0-041	Dean
Placement	Suite B-119	Director
Financial Aid	D-201	Director
Graduate College	4-029	Dean
Vice-President for Student Affairs	PE-1121	Vice-President

* Some departments maintain records separate from the College. A list of departments or programs which have separate records, their location, and the person responsible for the record may be obtained from the office of the dean of the college in which the department or program is located.

III. Availability of Records to Students

A student's record is open to the student, with the following exceptions:

- A. Letters of recommendation placed in files prior to January 1, 1975 which were intended to be confidential and used only for the purpose for which they were prepared.
- B. Records of parents' financial status.
- C. Medical and psychological records. Medical and psychological records are not available to anyone other than those providing treatment, but can be reviewed by a physician or licensed professional of the student-patient's choice.
- D. Some items of academic record under certain conditions. To ensure the validity and confidentiality of references prepared off campus and on campus, certain documents may carry waivers, signed by the student, relinquishing the student's right of access to the document.

Waivers are subject to the following conditions:

- 1. Waivers can be signed only for the specific purposes of application for admission, candidacy for honor or honorary recognition, including financial aid, based at least in part on merit, and candidacy for employment;
- 2. Waivers cannot be required;
- 3. The student shall be told, upon request, the names of those supplying references.

All items in the academic record not covered by waivers are open to the student. Material not covered by waivers may not be protected by keeping it out of the student's file.

IV. Availability of Records to University Personnel

Student records are open to members of the currently employed University faculty and staff who have a legitimate need to know their contents, with the following provisions/restrictions:

The university faculty or staff member must be performing a task that is specified in his or her position description or by a contract agreement, OR

performing a task related to student's education, OR providing a service or benefit relating to the student such as health care, counseling, job placement or financial aid.

A professor therefore, may access the records of an enrolled student in his or her class.

In addition, Northeastern has contracted with several companies to provide services to students on our behalf (e.g., grade reporting, degree and enrollment verification).

- A. The determination of a "legitimate need to know" will be made by the person responsible for the maintenance of the record. This determination must be made scrupulously and with respect for the individual whose record is involved.
- B. Those letters and statements in an education record which are inaccessible to students (filed before January 1, 1975, or segregated by waivers) are to be used only for the purposes for which they were prepared.

V. Release of Information to Third Parties

- A. Directory information may be released to agencies or persons outside the university unless the student completes the appropriate form which indicates that this information should be withheld. This form may be obtained in the Admissions and Records Office and must be filed within the first ten days of classes.
- B. Other information in the education record normally will be released to third parties (i.e., anyone not a member of the faculty or staff) only at the written request of the student. A student may secure from the appropriate office a "consent form" authorizing the release of specified records to specific individuals.
- C. Other information in the education record will be released to third parties without the consent of the student only as follows:
 - 1. Information will be released:
 - a. To Federal and State Officers in connection with the audit and evaluation of federally supported educational programs and to enforce federal laws;
 - b. As required by State law;
 - c. To research projects on behalf of educational agencies seeking test norms, improving instruction, etc., provided that there is no personal identification of students;
 - d. To accrediting agencies carrying out their functions;
 - e. In response to a subpoena or court order;
 - f. To officials of another school, upon request, in which a student seeks or intends to enroll
 - g. To parents of a dependent (as defined by the IRS code) student.
 - h. Results of a disciplinary hearing to an alleged victim of a crime of violence.

- i. To persons in an emergency if the knowledge of information is in fact necessary to protect the health or safety of the student or other persons.
2. Education records will be released to third parties only by the Vice President for Student Affairs, the Director of Financial Aid, or the Executive Director of Enrollment Services. No other University office will release education record information to third parties directly except in the case of institutional audits. Third party requests to other University offices shall be referred to one of the aforementioned officials.
3. The third party must submit the request in writing and must specify legitimate reason. A copy shall be filed with the President's Coordinator of Legal Affairs.
4. A reasonable attempt will be made to notify the student prior to the release of information if: (a) the request for information takes the form of a subpoena (excluding certain law enforcement subpoenas and ex parte orders), and (b) disclosure without notice would infringe upon the student's rights under the Family Educational Rights and Privacy Act. Judgments on condition (b) will be made by the President's Coordinator of Legal Affairs in consultation with the University President and Legal Counsel.
5. A notation of the release made to third parties will be kept in the student's record by the Vice President for Student Affairs, the Director of Financial Aid, or the Executive Director of Enrollment Services except when the reason for the request is institutional audit, procedural evaluation, or research. Reasons shall be evaluated in consultation with the President's Coordinator of Legal Affairs. Such notation is open only to the student and the person in charge of the record.
- D. The third party is prohibited by the Family Educational Rights and Privacy Act from subsequently releasing personally identifiable information to other (or fourth) parties, and shall be so informed in writing by the University official who releases information.

VI. Access Procedure

The University has established the following procedures enabling the student to have access to his or her record within 15 working days of the request and has provided for interpretation and challenge.

- A. The student may see his or her file by filling out a specific request form at the office where the record of interest is maintained.
- B. Access is to be granted promptly and no later than 15 working days from the date of request.
- C. The student may make the request in person or by mail.
- D. The student may obtain copies of records upon request (for which the university may charge an appropriate fee per page) with the following exceptions:

1. Copies of transcripts from other schools will not be released.
2. Copies of NEIU transcripts will not be released if the student is indebted to the university.
- E. The student may request and receive interpretation of his or her record from the person (or designate) responsible for the maintenance of the record.

VII. Review on Challenge

- A. In the event a student challenges the content of the education record on the basis that an item(s) is inaccurate, misleading, or violates the privacy or other rights of the student, the custodian of the education record shall discuss the challenge with the student and attempt to resolve the challenge within a framework of maintaining the integrity, accuracy, and usefulness of the record. If the student wishes to insert a written explanation regarding the content of the record, such written explanation is to be accepted and included in the record.
- B. If the custodian and student are unable to resolve the challenge, they shall schedule a meeting with the appropriate dean, within 15 days of the challenge for further review.
- C. If no resolution can be effected, the matter will be referred to the appropriate Vice-President's Hearing Panel.
- D. It is the obligation of the University to amend the education record if it is found that information contained therein is inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student, and the student's statement commenting on the education records which may be inserted therein shall be maintained as part of the educational records and shall be disclosed, together with the contested portion, to any party entitled to receive the education records.

VIII. The Hearing

- A. General principles:

A request for a hearing must be specific to a record, be submitted in writing to the custodian of the record, and include an explanation or justification of the request for a hearing. It is the responsibility of the student to prepare the written request.
- B. The Hearing Panel shall be appointed by the appropriate Vice-President. It shall consist of:
 1. At least one administration official of the University who does not have an interest in the direct outcome of the hearing;
 2. One faculty member of the University who does not have an interest in the direct outcome of the hearing;
 3. Two representatives from the Student Government or appropriate body.

The custodian of the record(s) or his or her designate shall be present as a resource person, but only as an ex-officio member of the panel.

- C. The hearing panel process shall afford the student a full and fair opportunity to present evidence relevant to the issue being raised. The process will ensure that:
 - 1. Hearings will be scheduled within a reasonable period of time not to exceed 45 days from the date on which the appeal was heard by the appropriate dean;
 - 2. Hearings will not be open to the public;
 - 3. Neither the student in question, nor his/her representative, shall serve on the panel;
 - 4. Decisions of the panel will be by majority vote and will be final;
 - 5. Results of the hearing, to include a summary of the evidence and the reasons for such decision, will be communicated in writing to the student and to the custodian(s) of the record being challenged within a period not to exceed 45 days after the conclusion of the hearing.

- C. Faculty and administrative personnel may require up to five (5) calendar days advance notice of absences to observe religious holidays.
- D. It is the responsibility of the faculty and administrative personnel to make available to such students an equivalent opportunity to make up the examinations, study or other academic work requirements which they missed due to such absences.
- E. It is the responsibility of all students who also are employees of the University to make arrangements to fulfill their obligations to the University in advance of their absence, and/or to utilize accrued leave (if applicable) during the absence.
- F. No fees or penalties may be imposed against the students who exercise such afforded opportunities.

If a student believes she/he has been a victim of discrimination on grounds of religious observances, she/he may seek redress under the existing Discrimination Grievance Procedure. (Copies available in the Affirmative Action Office and reprinted in the Northeastern Student Handbook).

IX. Notification Regarding Access to Records

Annual notification of this policy shall be made in official publications, such as the school catalog.

X. Continued Maintenance

Nothing in this policy requires the continued maintenance of any student record. However, if under the terms of this policy a student has requested access to the record, no destruction of the record shall be made before access has been granted to the student. Persons in charge of records should ensure that only pertinent items are retained in student files.

Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with requirements of FERPA. The name and address of the office that administers FERPA is:

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

POLICY ON DRUG AND ALCOHOL ABUSE - SUMMARY

Consistent with its mission as a public institution of higher education, the University is committed to educating students, faculty, and staff on the dangers of alcohol and drug abuse, and to establishing standards of conduct that maintain a campus environment in which such abuse is prohibited. These standards are intended to be in full compliance with the Drug-Free Schools and Campuses Regulations (34 CFR Part 86) promulgated by the Department of Education to implement section 22 of the Drug-Free Schools and Communities Act Amendments of 1989, which adds section 1213 to the Higher Education Act and section 5145 to the Drug-Free Schools and Communities Act (collectively referred to as the "Act").

Students should refer to the Dean of Students Web site for information about University policies and procedures. The address of the full policy on Drugs and Alcohol Abuse is www.neiu.edu/Survival_Kit/policy_1.htm#drug. The policy is also available in paper form in the Dean of Students office. For further information, call 773-442-4610.

STANDARDS OF CONDUCT AND PROHIBITIONS:

Employees and students, in their affiliation with the University, shall not manufacture, possess, use, deliver, sell or distribute any substance prohibited by the Illinois Cannabis Control Act, the Illinois Controlled Substance Act, or any other State or Federal statute, except as authorized by law, consistent with the regulations of the University's Board of Trustees. Further, faculty, staff, and students may not possess or consume alcoholic beverages on university property or at University-sponsored activities except in accordance with the University's Alcohol Policy (see Use of Facilities Policies and Procedures Manual) — which expressly limits

REASONABLE ACCOMMODATION OF RELIGIOUS OBSERVANCES

Consistent with Illinois Public Act 84-212, an act to prohibit public school districts and institutions of higher education from discriminating against students for observing religious holidays (effective August 26, 1985), Northeastern Illinois University subscribes to the following policy and procedures:

- A. Northeastern Illinois University supports the concept of "Reasonable Accommodations of Religious Observances" in regard to admissions, class attendance and the scheduling of examinations and other academic work requirements.
- B. A student who is unable because of the observance of a religious holiday to attend classes on a particular day or days or at a particular time of day shall be excused from any examination or any study or other academic work assignments on such days or times.

consumption of alcoholic beverages to persons 21 years of age or older, who are attending as specific invitees of the President or appropriate Vice President or designee, a function specifically approved by the President or appropriate Vice President or designee, held in a specifically approved designated area.

APPLICABLE LEGAL SANCTIONS:

Employees and students who violate State and/or Federal law may be subject to criminal prosecution. A number of Illinois and Federal criminal statutes provide extended definitions of what constitutes illegal possession, use, and distribution of alcohol and drugs. Criminal penalties for violations of Illinois statutes include terms of imprisonment for up to sixty (60) years and fines of up to \$500,000. Equally severe penalties and sanctions may be imposed for violations of Federal statutes. Detailed information on penalties and sanctions is distributed to all students, faculty, and staff annually and is available from the Dean of Students Office. Definitions of legal sanctions under Illinois law for the unlawful possession, use, and distribution of illicit drugs and alcohol are included in 720 ILCS Sec. 570/201 et seq. and 720 ILCS Sec. 550/1 et seq., copies of which are available for review by students and employees in the University library.

HEALTH RISKS:

The abuse or illegal use of alcohol and the illegal use of controlled substances can seriously injure the health of employees and students, adversely impair the performance of their duties and their academic achievements, and endanger the safety and well-being of fellow employees, students, and others. Further information about the health risks associated with the use of alcohol and controlled substances is distributed to all students, faculty and staff annually and is also available from the Dean of Students Office.

COUNSELING AND SUPPORT SERVICES:

1. Students

The University Counseling Office offers counseling and referral services to students who have drug or alcohol abuse-related problems. The Dean of Students Office provides (a) information about on-campus substance abuse self-help groups, (b) referrals to off-campus prevention and treatment resources, and (c) substance abuse information and prevention literature.

2. Employees

Employees and their dependents who encounter drug and alcohol abuse problems are encouraged to seek assistance voluntarily from the University's Employee Assistance Program (EAP). If job performance is adversely affected by drug or alcohol abuse, an employee may be referred to the EAP. Participation in the EAP is confidential and is encouraged by the University; however, it will not preclude normal disciplinary action or relieve an employee of responsibility for performing assigned duties in a safe and efficient manner.

DISCIPLINARY SANCTIONS:

1. Student Sanctions

The University will impose disciplinary sanctions (consistent with local, State, and Federal law) on students who violate the University's foregoing policy up to and including expulsion and referral for prosecution and completion of an appropriate rehabilitation program, all in accordance with the Student Conduct Code. Furthermore, student employees who violate the University's foregoing policy may be subject to termination of employment.

2. Employee Sanctions

The University will impose disciplinary sanctions (consistent with local, State and Federal law) on employees who violate the University's foregoing policy up to and including possible termination of employment and referral for prosecution.

ORAL PROFICIENCY

Northeastern Illinois University, in accordance with a 1987 State statute, insures that all persons providing classroom instruction to students are proficient in oral English. If an instructor's oral proficiency is in doubt, students should contact the department chair to obtain information about the University's procedure for handling complaints.

SERVICES FOR STUDENTS WITH DISABILITIES

- a. Northeastern Illinois University complies with Section 504 of the Rehabilitation Act of 1973 which states that "No otherwise qualified handicapped individual in the United States ... shall, solely by reason of his (or her) handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance...." In addition, NEIU complies with the Americans With Disabilities Act of 1990.
- b. The Affirmative Action Officer (A.A.O.) assumes responsibility for seeing that the University is properly interpreting Federal regulations requiring that the University take such steps as are necessary to ensure that no qualified student with disabilities is denied the benefits of, excluded from participation in, or otherwise subjected to discrimination because of the absence of educational auxiliary aids for students with impaired sensory, manual or speaking skills. The Affirmative Action Officer is responsible for coordinating the University's compliance with these regulations.

In cooperation with the Admissions Office, Health Service, Counseling Office, and Accessibility Center, the A.A.O. assumes responsibility for receiving and coordinating inquiries from students regarding auxiliary aids, academic adjustments or other reasonable accommodations.

- c. The following procedure applies for consideration of requests for auxiliary aids, academic adjustments or other reasonable accommodations. Students should complete the steps listed below sufficiently in advance of the anticipated need for services. Such notice is required in order to give the various academic and service areas a reasonable period of time in which to evaluate requests.
1. Students must be admitted to and/or enrolled in the University.
 2. Students requesting auxiliary aids, academic adjustments or other reasonable accommodations should first contact the University's Accessibility Center. If the request requires modification of academic procedural requirements or necessitates special testing and/or course evaluation methods, students must provide a written diagnosis from appropriate professional personnel. Such diagnosis is subject to verification by the University. If the request cannot be granted by the Accessibility Center, students should contact the A.A.O.
 3. The A.A.O. will make a case-by-case determination of the student's educational need for the requested auxiliary aid, academic adjustments or other reasonable accommodations. Auxiliary aids, academic adjustments or other reasonable accommodations determined to be necessary will be provided at no cost to the student.
 4. The Illinois Office of Rehabilitation Services (ORS) has a responsibility to provide services to eligible individuals with disabilities. The University strongly encourages students to apply to ORS for any benefits for which they might be eligible.
- d. Students who believe that they have been discriminated against on the basis of a disability can seek resolution through the University's Discrimination Grievance Procedure. Information and consultation on this procedure is available in the Affirmative Action Office (B-159, 773-442-5416).

TESTING REQUIREMENTS

UNIVERSITY TESTING

The purpose of the University's testing policy is to increase learning, enhance satisfaction, and ensure academic success for students through the assessment of entry level skills and baccalaureate-level competencies. This is accomplished through the administration of the Placement Tests and the English Competence Examination.

The Placement Tests are designed to determine skill levels in mathematics, reading and writing. Since these tests are not administered on a pass/fail basis, students are permitted to take them only once. Students are assigned to courses indicated by their test scores. Courses are designed to match students' skill levels and at the same time be challenging enough to develop college level performance whether in reading, writing or math.

The English Competency Examination (ECE) is designed to determine whether a student has achieved baccalaureate-level skills in reading and writing.

ENGLISH PLACEMENT TEST

Newly Admitted Freshmen must take the Placement Test in English before the first registration or during the first semester. No entering student may register for an English, English Language Program or Reading course before taking the English Placement Test.

Transfer Students who do not transfer a course equivalent to ENGL-101 must take the English Placement Test. Students who transfer a course equivalent to ENGL-101 with a grade below "C" also must take the English Placement Test. Students who transfer a course equivalent to ENGL-101 with a grade of "C" or better need to take only the English Competency Examination (ECE).

MATHEMATICS PLACEMENT TEST

All newly admitted and readmitted students must take the Mathematics Placement Test with the exception of the following:

1. Transfer students who have earned a "C" or better in a course articulated as an equivalent of MATH-102;
2. Transfer and readmitted students who have met the Mathematics Competency requirement for graduation; or
3. Students with a score of three or higher on the Advanced Placement (AP) calculus test.

ENGLISH COMPETENCE EXAM (ECE)

All students must attempt this exam by the time they have earned 60 credit hours. Transfer students who transfer a course equivalent to ENGL-101 with a grade of "C" or better must take the ECE before their first registration or during the first semester. All students must pass the ECE by the time they have earned 90 credit hours. The demonstration of baccalaureate-level reading and writing skills is a graduation requirement.

GENERAL EDUCATION PROGRAM

In the General Education Program, the University identifies four areas in which students gain some general knowledge to enrich their lives and enhance their academic experience. These four areas are Behavioral/Social Sciences, Natural Sciences, Humanities, and Fine Arts. Every undergraduate student must take courses from a list of designated courses in each of these areas.

It is expected that the knowledge gained in these courses will provide an academic foundation that will help prepare students for the major and minor course areas and will encourage students to become life-long learners in many different and divergent fields of study.

The goal of the General Education Program (often called 'Gen Ed') is to assist students in developing the following:

- the ability to communicate both in writing and orally;
- the skills required to gather, analyze, document, and integrate information;
- an understanding of historical processes and cultural differences; aesthetic and literary sensitivity;
- an understanding of the modes of thought, concerns, and methodologies of the fine arts, the humanities, the social and behavioral sciences, and the natural sciences;
- and the ability to use quantitative methods in the natural, social, and behavioral sciences.

Students are required to take a minimum of 39 credit hours of General Education courses. Transfer students may fulfill General Education requirements with courses taken at other colleges or universities. Students who transfer with an approved Illinois Community College Board (ICCB) Model Associate of Arts or Sciences degree or have completed the Illinois General Education Core Curriculum prior to transferring to Northeastern Illinois University will have met their General Education requirements. For information regarding the Illinois General Education Core Curriculum, visit the web site at <http://www.iTransfer.org>. Students seeking a teaching certificate may be required to take additional course work.

Students are required to complete their General Education courses during their first 75 hours of course work. These courses are distributed as described in detail below, and require students to take two courses in the Fine Arts, three courses in the Humanities, four courses in the Social/Behavioral Sciences, and four Natural Science courses (including one laboratory course).

Fine Arts 2 courses, 6 credit hours from two of the following areas of study: Art, Music, Speech and Performing Arts (Performance and Mass Media only)

Humanities 3 courses, 9 credit hours from at least two of the following areas of study: English, Foreign Languages and Literatures, Linguistics, Philosophy, Speech (Communications only), Women's Studies

Behavioral/Social Sciences 4 courses, 12 credit hours from at least two of the following areas of study: Anthropology,

Economics, Geography, History, Political Science, Psychology, Sociology

Natural Sciences 4 courses, 12 credit hours from at least two of the following areas of study; one course must have a laboratory component: Biology, Chemistry, Earth Science, Physics

Please note the following rules regarding the General Education Program:

- Only courses included on the Limited List of Courses during the term of enrollment (published in the Schedule of Classes) are applicable towards the General Education requirements.
- The Pass/Fail option may **not** be used to meet any General Education requirements.
- A student may use no more than six (6) hours of "D" to meet the distribution area requirements.
- By the tenth week of the Fall and Spring semesters, faculty teaching General Education courses must notify any student with less than a "C" average of his/her grade in the course.
- All General Education requirements must be completed during the first 75 credit hours of course work.
- Majors in the Fine Arts, Humanities, Social/Behavioral Sciences, and Natural Sciences may waive up to six credit hours of General Education requirements in the corresponding distribution area.
- At the discretion of the major department, majors in the Natural Sciences may waive up to an additional six credit hours of General Education in the Natural Science distribution area.
- A student may use no more than two courses from any one area of study (including courses transferred to Northeastern) to meet the distribution requirements in Humanities, Natural Sciences, and Social/Behavioral Sciences. No more than one course from any area of study (including transferred courses) may be used to meet the Fine Arts distribution requirements.
- Courses completed elsewhere by students transferring to Northeastern may be applied to General Education requirements. Such courses will be evaluated by the Admissions Office to determine appropriate General Education credit.
- Students who have specific questions should contact either their academic advisor or the Coordinator of the General Education Program.
- Freshmen and transfer students who require developmental courses in reading, writing and/or mathematics must take the indicated courses during their first 30 credit hours at NEIU.

AREA OF STUDY IN ADDITION TO THE MAJOR

All undergraduate students are required to have an area of study in addition to their major.

A student in the College of Arts and Sciences who majors in Biology, Chemistry, Earth Science, or Physics satisfies the requirement by means of a required group of cognate courses in other sciences and mathematics.

A student who completes a major in the College of Business and Management satisfies the requirement by means of completing cognate courses in the Business and Management core in addition to courses for the major.

A student who completes a professional education sequence in the College of Education has thereby satisfied the requirement.

Other students satisfy the requirement by completing a second major or a minor. Requirements for majors and minors are listed in detail in the academic department entries which follow.

Declaration of Major/Pre Major

The University requires all undergraduate students to declare a major by the time they have earned a total of 45 credit hours. Students who have not completed the prerequisites necessary to declare a major must declare a pre major.

Declaring a Pre Major

Students may declare a pre major by obtaining the form at the Admissions and Records Information Counter (D 101).

Declaring a Major

The "Declaration or Change of Major/Minor" form must be completed for a declaration of major or any changes in major. The procedure is as follows.

- a. Obtain form from the dean's or department chairperson's office, or from the Academic Advising Office.
- b. Form is to be completed and presented to the department chairperson of the intended major.
- c. Upon approval by the department chairperson and former Academic/University Advisor, the form is submitted to the Admissions and Records Office for data entry.

In most cases students may follow this procedure at any time throughout the school year. Please check with the major department for specific deadlines.

ACADEMIC REGULATIONS

STUDENT RESPONSIBILITY

Each student is responsible for knowledge of, and adherence to, all University requirements and regulations.

Each student is also responsible for knowing the degree requirements for the major in which he/she is enrolled and enrolling in courses which meet those degree requirements.

All students are strongly encouraged to seek information and assistance from appropriate staff should they have any questions regarding requirements or regulations.

THE ACADEMIC YEAR

The academic year consists of a Fall Semester, a Spring Semester, and a Summer program composed of varying term lengths. Specific dates for Fall 2003 through Summer 2005 can be found in the Academic Calendar section of this catalog.

PREREQUISITE POLICY

The student should note that some course descriptions refer to a **prerequisite** course that must be successfully completed before enrollment. The members of the faculty regard these prerequisites or their equivalent as a necessary foundation for student learning. Therefore, it is the student's responsibility to be aware of and follow any course prerequisite(s) prior to registration. In such case that a course prerequisite cannot be met, it is the responsibility of the student to obtain a *written* waiver of the prerequisite by following the procedure applicable in the college or department which sponsors the course.

It is the right of the faculty to verify that students enrolled in their courses have met the appropriate prerequisite(s) or their equivalents. The faculty member may request the student to show verification of having met the prerequisites. In the event a faculty member determines that a student has not met the prerequisites and should not be permitted to continue in a course, the faculty member may initiate action to drop the student by notifying Admissions and Records.

Faculty members from the College of Business and Management shall refer the matter to the college's Program Advising Office, which will initiate course drop action as appropriate.

POLICY ON FIRST CLASS SESSION ATTENDANCE

Department instructors may reassign a student's seat in a class if the student does not attend the first class session, is late for the first class session, or neglects to inform the instructor in advance of the intended absence. The student will be responsible for any financial consequence if the course is not dropped officially by the student before the appropriate refund deadline. Failure to officially withdraw from a class will result in a grade of F.

Students are expected to attend all regularly scheduled classes and examinations. If a student has more than three unexcused absences (or one per class credit hour), the instructor may lower the student's grade, require additional work, and/or impose other sanctions as appropriate. Additional class attendance provisions may be adopted by the separate academic departments.

ACADEMIC CONDUCT

Northeastern Illinois University students are expected to exhibit the highest standards of academic integrity. Academic misconduct such as plagiarism or cheating is unacceptable and will be investigated in accordance with University policy on academic misconduct. (See Student Survival Kit)

UNIT OF CREDIT

Credits at Northeastern are measured in semester hours. One semester hour consists of the equivalent of one 50 minute lecture or discussion period, or two laboratory periods per week, for one term. For individual study programs, requirements for a credit unit are arranged on an individual basis.

COURSE NUMBERS

A general guideline to the course numbering system is:

090-level courses are developmental; credit does not apply towards graduation;

100-level courses are usually taken during the freshmen year.

200-level courses are usually taken by sophomores.

100- and 200-level courses are lower division.

300-level courses are upper division courses which are for advanced undergraduates and, under some conditions, graduate students.

Students must complete a minimum of 42 semester hours at the upper division level.

400-level are for graduate students **ONLY**.

500-level courses are for graduate students **ONLY**.

POLICY ON GRADUATE DEGREE CREDITS

As of Fall 1997 all graduate credits will be at the 400 level except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. This policy applies to all students entering degree programs beginning with Fall 1997 and with students-at-large with degree. Students are strongly advised to consult with their program advisor or the Graduate College for details concerning graduate degree credits for 300 level courses.

STUDENT CLASSIFICATION

	Total Hours Earned:
Freshman	00 - 29 hours
Sophomore	30 - 59 hours
Junior	60 - 89 hours
Senior	90 + hours

Graduate Student — admitted to a graduate degree program

Student-at-Large — not admitted to a degree program

Student-at-Large Seeking Certification — admitted to a certification program.

Second Bachelor's Degree Candidate — admitted to an undergraduate degree program.

GRADING SYSTEM

Northeastern is on a 4.0 grading scale, i.e., each credit hour of "A" equals 4 grade points; an "A" earned in a 3 credit hour course generates 12 grade points.

The student's grade point average (GPA) is calculated by total number of grade points earned divided by total number of credit hours earned. Credit hours for courses in which a "F" is earned are used to calculate the grade point average. Transfer hours and courses in which a "P" grade is earned are not used to calculate the grade point average.

A general guide to the grades awarded follows:

Grade		Grade Points Per Credit Hour
A	Completion of course requirements in an outstanding manner, reflecting a degree of accomplishment that is exceptional.	4
B	Completion of course requirements in an entirely acceptable manner, demonstrating an excellent grasp of the subject matter, and the likelihood of successful completion of further courses in the same area.	3
C	Completion of the course requirements in an acceptable manner, reflecting a basic understanding of the subject matter of the course and the possibility of successful completion of further courses in the same subject area.	2
D	Fulfillment of the minimum performance requirements prescribed by the instructor, but not in such a manner that higher level courses in the same area can be recommended.	1
F	Failure to demonstrate acceptable competence in the subject matter of the course, and/or failure to fulfill the requirements of the course.	0
I	Incomplete — Allows for an additional amount of time to complete a course, given at the discretion of the instructor. (See Policy on Incompletes, below.)	0
P	Pass — Credit is awarded, but the credit hours are not used to calculate the grade point average.	0
V	Visitor/Auditor — Enrollment for no credit, no grade; not convertible to letter grade, nor applicable toward graduation credits.	0
W	Withdrawal — Student withdraws after the change- of-registration period, through the last day to officially withdraw.	0
X	Symbol used to indicate grades were not submitted by instructor in time for processing. NOT AN ACADEMIC GRADE. Replaced later by the academic grade earned.	0
IP	Course in progress.	0

CREDIT HOUR LOAD

Overloads require (1) a cumulative GPA of 3.0, (2) starting with the student's fourth term of enrollment, passing the English Language Competency Exam, (3) a letter of petition explaining the compelling reason the overload is necessary which is to be submitted to the appropriate college dean or department.

See the current Schedule of Classes for more information.

NOTE: No student may carry a course overload during their first term at Northeastern.

ENROLLMENT VERIFICATION

When verifying enrollment for purposes of loan deferment, Social Security eligibility, veteran's benefits, etc., the university reports full-time/part-time status in the following manner:

Enrolled Semester Hours	(Fall and Spring Semesters)
Graduate	Undergraduate
9 or more = full-time	12 or more = full-time
4 to 8 = half time	6 to 11 = half time
less than 4 = part time	less than 6 = part time

Enrolled Semester Hours	(Summer Term)
Graduate	Undergraduate
6 or more = full-time	9 or more = full-time
3 to 5 = half time	4 to 8 = half time
Less than 3 = part time	Less than 4 = part time

The student's status is determined by the total number of enrolled summer hours.

Dates of attendance will be reported using the beginning and ending dates of the specific summer session or sessions the student is taking classes.

NOTE: Enrollment verification for Second Bachelor Degree students will be based on undergraduate criteria as stated above.

REPEATED COURSES

If a student elects to repeat a course, both grades and their corresponding grade points are used to calculate the grade point average. However, a repeated course cannot be used towards fulfilling the minimum 120 hours graduation requirement. In addition, if a student repeats a course for which she/he received similar transfer credit, only one of the courses will be credited towards graduation.

This policy does not apply to independent studies, individual titles of varying courses, or courses specifically identified in the catalog with the description "may be repeated for credit".

POLICY ON INCOMPLETES

"I" (incomplete) may be given if a student is absent from the final examination or fails to complete a special research or individual study project because of some unavoidable circumstance such as illness.

"I" grades may only be assigned after an Incomplete Removal Contract Form has been completed with the instructor detailing the steps necessary for removal of the incomplete.

Students must complete the work required to fulfill the Incomplete Contract according to the following timetable:

Semester Assigned	Work Completed by	Change of Grade Submitted by
Fall	end of Spring	end of June
Spring	end of Fall	end of January
Summer	end of Fall	end of January

Incompletes that have not been removed by the end of the designated Fall or Spring semester, will become permanent if the student was performing satisfactory (A, B, or C) work at the time the "I" grade was issued. "I" grades for students who were not performing satisfactory (D or F) work will be changed to an "F" grade.

This policy does not apply to thesis seminars or master's project seminars.

Incompletes assigned prior to the recording of a degree cannot be removed after the degree has been awarded.

GRADE CHANGE LIMITATION

There is a time limit of one calendar year for any changes in letter grades. Grades assigned prior to the recording of a degree cannot be changed after the degree has been awarded.

PERMANENT PASS/FAIL OPTION

1. The Pass/Fail Option is available only to students in good standing (can not be on academic probation) at the undergraduate level.
2. The pass/fail option is not allowed for General Education, Honors, tutored study courses, independent study courses, English 101, College of Business and Management courses, a course used to fulfill a major or minor requirement, or a course used to fulfill the Math Competency Requirement.
3. Students are eligible to exercise the pass/fail option only after accumulating fifteen hours in residency (courses taken through Northeastern).
4. Eligible students will be permitted only one pass/fail course per term. A maximum of 18 pass/fail hours, including transfer courses from other institutions, may be applied toward graduation but may not be counted toward a student's major area of concentration, minor, or General Education Program.
5. Declaration of the intention to select the pass/fail option must be made no later than the tenth day of the term by using the Touchtone Telephone Registration System (TTRS). The decision to select the pass/fail option may not be changed after that date.
6. A grade of "P" will be used to indicate that the student has passed the course and a grade of "F" that the

student has failed the course. This “F” will be included in the grade point average.

7. Instructors may offer courses restricted to pass/fail registration with approval from the appropriate College Educational Policy Committee, and by the Faculty Council on Academic Affairs either at the time of initial course approval or subsequently. Hours of credit carried by such a course(s) will be part of the maximum of 18 hours which have been approved for the general pass/fail option.

VISITOR/AUDITOR

A student who wishes to audit courses must obtain the written permission of the instructor (permission of the Department Chairperson for College of Business and Management courses), register in the regular manner, and pay all fees charged students earning credit in the same course. The audit option can only be selected at the time of registration. Once the student has enrolled as an auditor in a course, he/she may not change registration to earn credit. Refer to the current Schedule of Classes for additional information and deadline dates.

COMMUNITY LISTENERS PROGRAM

The Community Listeners program is offered for self-enhancement to individuals who are not currently enrolled at Northeastern and are interested in taking college courses without receiving credit. There is no charge for participation in this program. Individuals may select one class each semester from a schedule of Community Listeners classes that is predetermined by faculty. Class size, determined by the instructor, is limited and available on a first-come, first-served basis. Community Listener participants have access to the library with a validated registration form. For additional information, or to request a class schedule, contact the Community Listeners Program at (773) 442-4256.

ACADEMIC STANDARDS, PROBATION AND DISMISSAL

Undergraduates

The minimum cumulative grade point average which must be maintained in order to be classified as an undergraduate student in good standing is 2.0 (on a 4.0 scale) or a “C” average. Students must have at least a 2.0 cumulative average in order to graduate. The cumulative grade point average is computed on the basis of credit earned at Northeastern Illinois University only (A=4, B=3, C=2, D=1, F=0.)

An undergraduate student will be placed on academic probation when his/her cumulative grade point average falls below 2.0 (C). If, in subsequent terms, the student earns grades which restore his/her cumulative average to 2.0 or above, he/she will be returned to good standing. If, in subsequent terms, the student earns at least a 2.0 average for the term, but does not restore his/her cumulative record to 2.0, he/she will be permitted to continue on academic probation. If, in any subsequent term, the student on probation

fails to earn a 2.0 average for the term, he/she will be dropped from the university for poor scholarship.

A student who has been dropped for poor scholarship may appeal to the Academic Standards Committee for reinstatement after one term. If the appeal is granted, the reinstated student will be on probation and will be subject to the standards for a student on probation as detailed in the preceding paragraph. (Should a student be dropped for poor scholarship a second time, he/she will ordinarily be ineligible for readmission to the university.)

All petitions to the Academic Standards Committee must be submitted no later than **July 15 for the Fall semester, November 15 for the Spring semester, or March 15 for the Summer semester** in order to be considered for reinstatement.

The Academic Standards Committee is responsible for all policies governing the probation, dismissal and reinstatement of undergraduate students, and will recommend action to the Provost. Decisions of the Provost shall be final in all cases.

Students-at-Large

Students-at-large with bachelor's degrees and undergraduate students-at-large will be dropped for poor scholarship if, upon completion of four courses, they have less than a 2.0 (on a 4.0 scale) (C) cumulative grade point average, and have not maintained a term grade point average of 2.0 or better.

A student-at-large who has been dropped for poor scholarship may appeal to the Academic Standards Committee for reinstatement after one term.

Graduate Students

To remain in good academic standing, graduate students in a Master's Program must make satisfactory progress toward their degree. Graduate students who have less than a 2.0 (“C” average) after completing 4 or more courses at Northeastern and who have not maintained a term GPA of 2.0 or better will be dropped from the university. See detailed academic regulations in the Graduate College section of this catalog.

Special Programs

Exceptions to the above policy will be made for students in the Educational Assistance Program, effective September, 1972. Students in this program will be subject to the above retention regulations at the end of the fifth term (regardless of the number of terms actually attended.) Good standing or probationary status is reviewed at the end of the fifth consecutive term after admission to the program. The term and cumulative grade point average at the end of the sixth term determines whether the student is eligible to continue or is dropped for poor scholarship.

University Without Walls (UWW)

University Without Walls students shall be exempt from being placed on academic probation or being dropped for poor scholarship during the first 12 credit hours of formal course

work taken at Northeastern. If a UWW student takes more than 12 hours of formal credit, the normal university academic regulations will apply. The above policy has no bearing on transfer credits nor on any formal course work not completed at Northeastern.

REGISTRATION AND RECORDS

REGISTRATION PROCEDURES

Currently enrolled students and students admitted or readmitted at least one month prior to the beginning of Advance Registration, may be eligible to participate in the Advance Registration process. This allows students to register for the term in advance. All eligible students are sent registration information from the Registration Office. Following the advance registration period, class schedules and bills are mailed.

Eligible students who do not advance register may register for classes during the late registration or change of registration period which is scheduled just prior to the beginning of each term. Bills and class schedules are not produced following these registrations. Refer to the current Schedule of Classes for detailed information.

Students who fail to complete all admissions requirements, have outstanding tuition/fees, loan or other financial obligations, or receive academic or disciplinary notices are subject to cancellation of their current and future registrations.

CONCURRENT REGISTRATION

Concurrent registration for undergraduates working toward a degree at Northeastern is permissible. Prior to enrolling at another university, the student at Northeastern must obtain written permission from his/her chairperson/designated academic advisor, to be submitted to the Admissions and Records Office. Official forms and information concerning procedures are available at the Admissions/Records Information counter. Failure to follow appropriate procedures may jeopardize the acceptance of credits earned at another university or college. The last 30 consecutive credit hours must be completed at Northeastern. Students who petition and receive permission to enroll at another institution during the term graduation is anticipated must have an official transcript forwarded to the Office of Admissions and Records no later than two weeks after the end of the term in which they intend to graduate. Failure to provide an official transcript by this deadline will delay graduation. In all instances students must complete a minimum of 30 hours at Northeastern in order to meet graduation requirements.

TRANSCRIPTS

Students may request an official transcript of their record by writing to the Records Office or by completing a Transcript Request form. It is recommended that the student allow 5-7 working days for processing time from the date the transcript request is received. All transcripts issued directly to the student will have an "issued to student" stamp affixed to their transcript.

Each graduating student will be sent a copy of their transcript at the time of graduation. Students will be assessed a \$10.00 transcript fee at the time of their first registration at Northeastern Illinois University. This will allow the student to request official transcripts up to a reasonable limit at no additional cost.

Students who have a financial obligation to the university may not receive official or unofficial transcripts until the debt has been cleared.

CONFIDENTIALITY OF RECORDS

The Records Office assumes responsibility for the maintenance and integrity of student records. As an agent for the university and official custodian of student academic records, this office will release information only at the student's request and with his/her approval.

See the university policy on Release of Information Pertaining to Students as required by The Family Educational Rights and Privacy Act of 1974, elsewhere in this catalog.

DROPPING A CLASS/OFFICIAL WITHDRAWAL FROM THE UNIVERSITY

Consult the Schedule of Classes for refund policies and deadline dates.

Students must take the appropriate action in order to update their enrollment record. In special circumstances, at the discretion of the college dean, students may obtain approval for late withdrawal from class.

Unofficial withdrawal from the university will result in a grade of "F" (failure) being assigned.

Students who completely withdraw from the university must return all borrowed books to the library, pay any fines due and clear all outstanding accounts at the university.

GRADE REPORTING SERVICES FOR STUDENTS

Semester grades will be available via the Internet (www.getgrades.com) or by telephone (1-800-227-9201) for one month, beginning three days after the deadline to submit grades. See the Academic Calendar section of this catalog for the date that grades are due. Grades will only be available for the semester just ended. Semester grades will not be mailed to students.

You will be required to enter your social security number and your 4-digit PIN (used for the Touchtone Telephone Registration System) to access your grades. Detailed instructions are available at the Admissions and Records Information Counter.

Students who need a printed copy of their semester grades for tuition reimbursement may obtain one by mailing a request to the Admissions and Records Office, faxing a request to 773-442-4020, or by presenting photo identification to the Admissions and Records Information Counter.

BACHELOR'S DEGREE REQUIREMENTS

1. **Total Credits:**

A **minimum** of 120 semester hours must be earned by every undergraduate student to be eligible to graduate from Northeastern, 30 of which must be earned at Northeastern. Students must complete a minimum of 42 semester hours at the upper division level.

2. **Academic Major and Minor:**

Undergraduate students must complete a major and a minor or an approved additional area of study (second major, cognate, or professional sequence).

Students must earn a grade of "C" or higher in all courses counted toward the major, the minor, cognate, and professional sequences. No "P" grades will count toward a major, minor, or approved area of study.

All grade point average requirements must be met for the successful completion of a program of study.

3. **Residency:**

The last 30 consecutive credit hours must be taken at Northeastern, unless permission is received from the Office of Admissions and Records.

4. **General Education Program:**

All undergraduate students must complete the General Education Program requirements.

5. **English Composition Requirement:**

All students must successfully complete English 101 or its equivalent, with a grade of "C" or better. This requirement should be completed in the freshman year in order to ensure that students have the necessary writing skills to complete their studies.

6. **Academic College:**

All undergraduates must also satisfy the requirements of their individual college (College of Arts and Sciences, College of Business and Management, College of Education).

7. **Grade Point Average:**

To be eligible to graduate, a student must have a minimum cumulative 2.0 GPA (overall "C" average). Some academic programs and departments have other specific grade requirements. Check with your academic advisor.

8. **Constitution Requirement:**

All undergraduate students enrolled in state universities must meet the requirements of Senate Bill 195 which requires knowledge of the U.S. and Illinois State Constitutions. This requirement can be met by

- passing an examination given through the Political Science department, or
- passing PSCI-216.

No academic credit is given for passing the exam.

9. **Improving Human Relations Requirement:**

House Bill Number 0094 of the 87th General Assembly of the State of Illinois requires: "each public institution of higher education to include, in the general education requirements for obtaining a degree, course work on improving human relations to include race, ethnicity, gender and other issues related to improving human relations to address racism and sexual harassment on their campuses, through existing courses."

The revised General Education Program includes course work on improving race and ethnic relations. The current Schedule of Classes will identify the list from which the students will choose HB0094 courses.

Students who complete one of the following programs of study have met the HB0094 requirement.

- Anthropology (major or minor)
- Bilingual/Bicultural Education (major)
- Justice Studies (major or minor)
- Geography (major)
- History (major)
- Inner City Studies (major)
- Mexican-Caribbean Studies (minor)
- Political Science (major or minor)
- Social Work (major or minor)
- Sociology (major or minor)
- Women's Studies (major or minor)

10. **English Language Competency Requirement:**

Every undergraduate student must pass the English Language Competency Exam offered regularly through the Assessment and Testing Office.

11. **Mathematics Competency Requirement:**

Students must demonstrate competency in quantitative reasoning at a collegiate level. Students can fulfill this requirement in one of the following ways:

- A grade of "C" or higher in a mathematics or statistics course having MATH-102 Intermediate Algebra as a stated prerequisite. Specific course information can be found in the current Schedule of Classes.
- Transfer credit with a grade of "C" or better in a course equivalent to the courses listed in the current Schedule of Classes as meeting the Mathematics Competency requirement, or in Calculus I or Business Calculus.
- A score on the Northeastern Mathematics placement test to indicate placement in Calculus I, or a score of three or higher on the Advanced Placement (AP) calculus test.
- An AA or AS degree from a community college meeting the standards of the 1991 Illinois Community College Board Model, or completion of the Illinois General Education Core Curriculum prior to transferring to Northeastern. To meet the mathematics competency requirement, a student must earn a grade of "C" or better in the mathematics course transferred from the community college.

- e. Completion of one of the majors or minors listed below:

College of Arts and Sciences

- Biology major
- Chemistry major
- Computer Science major or minor
- Earth Science major
- Physics major or minor
- Economics major or minor
- Mathematics major or minor
- Psychology major

College of Business and Management

- Accounting major or minor
- Finance major or minor
- General Business Administration major
- International Business minor
- Marketing major or minor
- Management major or minor

College of Education

- ISBE Certificate for:
 - Early Childhood Education
 - Elementary Education
 - Secondary Education
 - Special Education

12. **Computer/Information Literacy Requirement:**

NEIU graduates will need to be able to use personal computers and information networks to communicate and to engage in research. The abilities listed below in parts 1 and 2 of the requirement shall be demonstrated by all NEIU students. The successful completion of this requirement is determined by a student's major advisor or chair of the department.

1. The completion of the following components (a – c) is determined by the major department:
 - a) Use university supported word processing software to produce well-formatted written assignments.
 - b) Use e-mail software to communicate with others. This includes the ability to attach files in multiple formats and to detach these files and utilize them when needed.
 - c) Demonstrate the ability to use a computer to copy, move, delete, and find files.
2. The following components (d & e) can be met at the NEIU Library by taking ENGL 101 at NEIU OR by taking a one hour mini-session. Some departments have integrated the completion of this part of the requirement into an upper level course. For information on d & e, contact 773-442-4419.
 - d) Utilize the NEIU on-line public access catalog to search the library's holdings and utilize other on-line databases to conduct research.
 - e) Search the Internet and World Wide Web for resources to support particular areas of study.

Both parts (1 & 2) must be completed in order to fulfill the requirement. For further information, please see your major advisor.

FILING FOR GRADUATION

Students must submit an Application for Graduation, completed Academic Course Record forms for major and minor (if applicable), and the Graduating Student Survey to the Office of Admissions and Records when the following have been completed.

1. A minimum of 85 hours of credit has been earned.
2. Student has been formally accepted by his/her major department and minor department (if applicable).

DEADLINES FOR FILING THE APPLICATION FOR GRADUATION FORM

Month of Anticipated Completion of Degree Requirements	Filing Deadline
May 2004	September 24, 2003
August 2004	January 22, 2004
December 2004	May 22, 2004

Each student anticipating graduation is totally responsible for filing the appropriate forms by the above deadlines. A student who files the required forms but fails to complete all graduation requirements by the appropriate date will be dropped from the graduation list and must reapply for a later graduation date by completing a Change of Graduation Date form available at the Admissions and Records Information Counter.

Those students who have applied and been accepted for graduation will be eligible to participate in the subsequent commencement ceremony.

Diplomas and final transcripts are not released to graduates until they have paid the graduation fee and all holds and/or indebtedness to the university have been resolved.

SECOND BACHELOR'S DEGREE

Students who wish to earn a second bachelor's degree must submit a completed Northeastern undergraduate application form, a non-refundable \$25.00 application fee and an official college transcript from a regionally accredited institution which awarded the first baccalaureate degree to the Office of Admissions.

Course work used to fulfill requirements for a previous undergraduate major or master's degree may not be used to fulfill requirements for the second bachelor's major. A minimum of 30 additional credit hours must be earned in residence after the first degree has been awarded. A second bachelor's degree candidate will not be required to complete a minor or an additional area of study.

Students may not be enrolled in or pursuing two programs simultaneously.

Applicants for the second bachelor's degree who were awarded a degree from an accredited college or university in the United States have met NEIU's General Education

program, ENGL-101, English Competency, Mathematics Competency, and the 42 hour upper division requirement. If the degree was awarded from an institution in Illinois, the Constitution requirement has been met.

Second bachelor's degree candidates will be required to fulfill the Improving Human Relations requirement and the Computer/Information Literacy requirement.

HONORS RECOGNITION

Baccalaureate degree students who graduate with at least a 3.5 cumulative grade point average (on a 4.0 scale) will be awarded Honors recognition.

Students in Nontraditional Degree Programs must complete a minimum of 30 credit hours at Northeastern Illinois University to be eligible for Honors recognition.

cum laude (with distinction) 3.5-3.74 GPA

magna cum laude (with great distinction) 3.75-3.89 GPA

summa cum laude (with highest distinction) 3.9-4.0 GPA

INSTRUCTIONAL SUPPORT SERVICES

ACADEMIC COMPUTING SERVICES

Academic Computing provides computing resource support for students and faculty through open computing labs, Technology Enhanced Classrooms, Unix servers and timesharing computer systems, faculty computing resource facilities, remote dial-in email/Internet access, training workshops, and academic software consultation.

Student computing laboratories

At Northeastern Illinois University, over 380 computer workstations are available for general student use in 14 locations across the main campus, El Centro and the Center for Inner City Studies. These state-of-the-art microcomputers, both PC and Macintosh, have a number of applications that include word processing, spreadsheet, database, presentation and communications. All computers are networked and have high-speed access to the Internet. Four microcomputer facilities are Technology Enhanced Classrooms where general curriculum, classroom instruction is provided throughout the semester. Of interest are two very special student computing resource facilities. One is the Information Commons, located in the basement of the Classroom Building. This lab has 81 microcomputers, is wheelchair accessible, has an Assistive Technology Room that has systems for the visually impaired and a Multimedia Room for multimedia production with authoring and presentation software, video capture, and audio and video editing. The other major student/learner centered facility is located in the B-Building. It consists of two rooms for student computer literacy training and a connecting, large open lab for general use of microcomputer applications and Internet access. One-to-one student assistance is available from Student Client Support personnel who are centrally located in the area.

Unix host computers

Academic Computing maintains a Unix computer that gives students and faculty access to computer programming languages, statistical packages SPSS and SAS, and the Oracle Database Management System. Academic Computing also shares ownership in a Unix cluster that provides such Internet features as email, web server, and Listservs.

Dial-in

Academic computing provides high performance, 132-port dial-in access for students, faculty and staff through two Remote Access Servers. This system is able to handle modem speeds to 56 Kbs. Through these Remote Access Servers users are able to connect to various host computers and to the Internet

Student and faculty service support

Training workshops with complete documentation are provided in word processing, spreadsheet, database, presentation, e-mail and the World Wide Web for students and interested

faculty on a regular basis each semester. On a limited basis, Academic Computing also provides dedicated workshops in its facilities for faculty during their class periods. Faculty are also provided orientation workshops for use of the Technology Enhanced Classrooms and workshops to introduce them to the Unix operating system.

Student client support is provided in the computer laboratories and Technology Enhanced Classrooms whenever labs are open. Academic Computing employs more than 50 students on a part-time basis for this purpose. These students are given special training in technical and service support procedures.

Assistive technology

Academic Computing supports students who have disabilities by coordinating with and supporting the Accessibility Center. Access to computer equipment in an open laboratory is provided for the disabled in addition to special software and Braille documentation for the blind and visually impaired.

UNIVERSITY MEDIA SERVICES

Northeastern offers opportunities to learn and teach through the use of a wide variety of audio, film, television, multimedia, and other audio-visual materials. These are either purchased or rented from national distributors or produced in the University's own studios. Although some departments have specialized media laboratories, the majority of audio-visual materials, equipment, production studio facilities, and professional help for instructional and administrative activities are provided by University Media Services.

LIBRARY

The Ronald Williams Library is located west of the Science Building. It has five floors totaling over 150,000 square feet and contains approximately 697,000 volumes, 771 reader stations, and numerous study areas. Special features include services for people with disabilities, a Center for Teaching and Learning, the Learning Center, Mathematics Lab, Reading Lab, and two classrooms for library instruction. In addition over 1,274,000 other educational support items such as recordings, microfilms, maps, document, videotapes and pamphlets are housed in the Library. Additional information and access to electronic resources are available on the Library's web site at www.neiu.edu/~neilib.

Reference

Help in using the Library's collection and locating information for study and research is available at the Reference Desk, located on the first floor, and at the Periodicals Reference/Government Information Services Desk on the second floor. Library faculty and staff often present course related library instruction sessions to students.

Circulation

Library users may charge out materials at the Circulation Desk situated to the right of the entrance on the first floor.

Reserve

Library materials selected by instructors for reading assignments in course offerings are kept on Reserve located

at the Circulation Desk. A listing of items on Reserve is available in the online catalog, ILLINET Online.

Interlibrary Loan

Because the Library is a member of the Illinois Library Computer Systems Organization (ILCSO), Northeastern's students, faculty, and staff may borrow materials from 56 academic libraries in Illinois. With a valid ID card, patrons may borrow materials from these ILCSO libraries from ILLINET Online, the Library's online catalog, or by visiting these libraries directly. The Library also borrows materials from other libraries that are not affiliated with ILCSO. The Library holds a membership to the University of Chicago Libraries.

Databases

The Library subscribes to approximately 80 databases available from the Library's web site at <http://www.neiu.edu/~neilib>. Access to them is available to Northeastern students, faculty and staff from workstations within the Library and remotely from workstations off campus. Staff at the Reference Desks are available for assistance with using these materials.

Special Collections

IRAD and Archives

The Library is the Illinois Regional Archives Depository (IRAD) for Chicago and Cook County. It holds and provides access to part of the city's archival materials. It maintains the historical documents of Northeastern Illinois University in the University Archives. These materials are located on the lower level of the Library, and assistance is provided by library staff and several IRAD interns.

Periodicals and Government Documents

The periodical and government document collections are located on the second floor. The Library subscribes to more than 3400 periodical titles. Listings of periodical titles are at the service areas on the first and second floors. Northeastern's Library is a depository for both federal and Illinois state documents. Staff at the Periodicals/ Government Information Center Reference Desk are available for assistance with using these materials.

Curriculum Materials

The CMC Collection is located on the third floor and is designed to support course work in professional education and children's literature. It includes children's books, school texts, curriculum guides, and a complete file of Educational Resource Information Center (ERIC) documents.

Multimedia Learning Resource Center

The new MLRC on the third floor houses the Library's extensive audio and video collections along with preview facilities for the use of AV formats onsite. The MLRC also provides access to educational microcomputer software using the latest in multimedia computers.

Center for Inner City Studies

The Ronald Williams Library provides a branch Library to support the Inner City Studies program. The collection of over 29,000 books, periodicals, microforms, and other research materials is located at 700 East Oakwood Boulevard.

STUDENT LIFE

ACTIVITIES PROGRAM

Student life at Northeastern is enhanced by an activities program which includes more than 60 student organizations. Students can participate in Student Government, ethnic organizations, academic interest groups, media organizations and other special interest groups. Involvement in these groups promotes individual student development and contributes significantly to the diversity and richness of campus life.

Student Government provides valuable opportunities for students to develop leadership abilities as well as serve on all-university committees and boards. Student Government recommends allocation of Student Activity Fees and funding for events sponsored by student organizations.

Northeastern Programming Board presents university-wide social, educational, recreational and cultural programs for the enjoyment of the student body.

I.D. CARD POLICY

All students enrolled in Northeastern Illinois University are required to obtain a Northeastern Illinois University identification card and maintain this card in their possession while attending functions of Northeastern Illinois University. This card must be presented on demand for the purposes of official university identification.

The card is available at the Information Center. There is no charge for the first ID issued, however, there is a charge to replace a lost ID. To obtain your ID card, you must present the following items: Proof of current NEIU registration and a photo ID such as a valid driver's license.

The ID card is automatically validated upon payment of required fees each term. The ID card must be presented to: check books out of the library, gain access to the Physical Education facility, pick up loan checks, vote in student based elections, and enter university events. The ID card is also a debit card that may be used for various purchases on campus.

CAMPUS RECREATION

The Campus Recreation Program provides a variety of recreation opportunities for all students, faculty, and staff. Components of this comprehensive program include open recreation, intramural activities, sport clubs, aquatics, wellness and fitness programming and instructional programs. The Physical Education Complex is open from 8:00 am - 9:00 pm Monday through Thursday; 8:00 am - 7:30 pm Fridays and 9:00 am - 3:00 pm on Saturdays. The facilities include a fitness center with weight training and exercise equipment, a swimming pool, indoor running track, 2 multi-purpose gymnasiums, racquetball courts and locker rooms. Outdoors is the Athletic Field and 6 tennis courts. Campus Recreation can be reached at 773-442-4135.

Intramural competition is offered in male, female and co-rec divisions. Sports that are typically offered include softball,

volleyball, flag football, tennis, racquetball, basketball, badminton, and table tennis. Sport clubs may include volleyball, soccer, baseball, outdoor adventure and martial arts.

CHILD CARE CENTER

The Northeastern Illinois University's Child Care Center, located on campus, is licensed to accept children 15 months through 6 years (up to 10 years during the summer). Operating Monday through Friday from 7:00 am to 6:00 pm, the center offers both half- and full-day sessions. Licensed by the State of Illinois Department of Children and Family Services, and accredited by NAEYC, the program provides quality early-childhood education in keeping with the best accepted methods and principles of child care. Contact the Child Care Center at extension 4540 for registration and fee information.

STUDENT UNION

The Student Union coordinates food service, locker rental, and identification card services. The Union also has meeting facilities for campus organizations as well as space for social and recreational events. Providing the focus of Northeastern's student life, the Union offers programs to enrich the educational experiences of the University community and features comfortable surroundings for informal study and relaxation. Staff may be reached at extension 2099.

ID CARD AS A DEBIT CARD

Your NEIU ID card can be used as a debit card in photocopiers, library microfilm printers, and for food purchases in the cafeteria. The thin magnetic strip on the back of the ID card can be initiated with a dollar value up to \$20. To initiate (or increase) the dollar value on an ID card, go to an "Add Value" station located on campus. Insert the card with a five, ten or twenty dollar bill, the dollar value on the magnetic strip will be initiated or increased by that amount. Each time your ID is used for a purchase, the dollar value encoded on the magnetic strip will be reduced by the amount of the transaction.

UNIVERSITY EVENTS

The University Events Office coordinates all of the functions and support services for centralized special events sponsored by the academic, administrative and student communities.

This office provides assistance in scheduling, planning, producing and promoting university events, as well as providing consultation for productions of university-wide events such as commencement, orientation, workshops and conferences. Additional services include management and staff support for the University's Auditorium, Recital Hall and Box Office.

The University Events Office monitors the use of university facilities by on-campus individuals and groups and is the initial contact for off-campus agencies requesting use of Northeastern's facilities. Copies of the Use of University Facilities Policies may be obtained in the University Events office, extension 4270.

ACADEMIC DEVELOPMENT

Murrell J. H. Duster, M.Ed., Assistant Professor,
Teacher Education; Dean, Diversity and Equity
(Affirmative Action Officer); and Academic Development
Daniel Lopez, Jr. Ph.D., Assistant Dean,
Academic Development

Yasmin A. Ranney, Assistant to the Dean,
Academic Development

Victoria Amey-Flippin, Ph.D., Director,
Accessibility Center/H.E.L.P.

Thomas Blackburn, M.S., Coordinator, Math Development
Linda Chenault, M.A., Coordinator, Reading Development

Teresita J. Diaz, M.A., Coordinator, Proyecto Pa'Lante

Katherine Gleiss-Monar, M.S., Coordinating Specialist,
Academic Advising and Tutoring

Antoinette McConnell, M.A., Coordinator, Project Success

Yvonne Gulli, M.A., Coordinator,
Academic Advising and Tutoring

Sandra Hunt, Ph.D., Associate Professor of English;
Coordinator, English Language Program

Masahiro Kasai, Ph.D., Coordinator,
Assessment and Testing Center

Carlos LeBron, M.A., Coordinator,
Summer Transition Program

Kyu Y. Park, Ph.D., Coordinator, Asian Programs

The Office of Academic Development provides quality academic and support service programs for Northeastern students. The office is responsible for the following areas: Academic Advising; Tutorial Center; English Language Program (ELP); Accessibility Center/H.E.L.P.; Special Programs, which includes Project Success and Proyecto Pa'Lante; Summer Transition Program; University Seminar; University-wide Placement and Competency examinations through the Assessment and Testing Center; university-wide assessment; developmental reading; math, reading and writing labs; and El Centro, a community outreach center. This office works to establish or continue liaisons between all support services within the University; encourages innovative approaches to instruction; assists under prepared students; participates in liaison activities with other institutions and supports services and programs for entering student populations. Student and advisory councils provide suggestions and feedback on activities and programs of the office.

ADVISING PROGRAM

The University Advising Program provides academic and developmental advising for all undergraduate students who have not declared majors. Through the Advisement Center and its staff, each student is assigned a university advisor who guides the student through course and program selection, testing and other general education requirements, and the process of career choice and personal development. Students

remain with their university advisors until they declare a major, at which time the major department will assign a major advisor.

Special advisors are available for students interested in pre-engineering, pre-law and pre-professional health sciences programs. The Advisement Center will provide further information.

ASSESSMENT AND TESTING CENTER

Located in Room 3026 of the Classroom Building, the Assessment and Testing Center administers and coordinates a variety of assessment programs and services. The programs include Northeastern's competency examination program (including the English Competency Examination of reading and writing) and its placement testing program for incoming freshmen and transfer students. The Center also coordinates assessment activities throughout the University. Working in collaboration with students, faculty members, department and program leaders, and university administrators, the Center staff sponsors and promotes activities to assess the impact of programs and services on student learning and projects to increase student learning, satisfaction, and academic success.

UNIVERSITY SEMINAR

Considerable evidence indicates that the quality of a student's experience during his/her first year at the university influences academic persistence in earning a baccalaureate degree. University Seminar offers a number of activities and one elective course designed to enhance the quality of the first year experience. Classroom and university-wide initiatives are designed to provide a student-centered environment that is both socially and intellectually challenging.

COURSE OFFERING

ACAD-103 University Seminar, 3 cr. Designed to help students develop the skills and behaviors that lead to a successful transition to the University environment.

EL CENTRO

El Centro is the University's academic center for the Latino community. Known as El Centro [the center], this satellite campus provides educational opportunities to members of the Latino community, though not exclusively, in or near their own neighborhoods. Located in the northwest area of Chicago, El Centro is easily accessible to residents of West Town, Humboldt Park and Logan Square. El Centro serves the non-traditional, part-time, and returning adult students, as well as the traditional first-year and transfer students.

In keeping with Northeastern Illinois University's mission, El Centro's mission is to make accessible, quality, affordable education, available to students who, because of economic necessity, are only able to take classes during the evening hours or on the weekends. A select number of classes are also offered during the day, as well as on Friday and Saturday

mornings. El Centro offers courses in the natural sciences, behavioral and social sciences, fine arts and the humanities taught by qualified faculty, which fulfill the General Education Program requirements of the University. Elective courses provide additional opportunities to develop students' competence in languages, mathematics, reading, computer, and academic skills. Students also receive assistance with admission, registration, academic advising, and other services on-site.

Students at El Centro have access to a higher educational environment with modern facilities and high quality university and technical resources, including a computer lab with PCs and Macintosh computers. A full load of 12 credit hours is possible during both the Fall and Spring semesters, with additional courses offered during the Summer session. All the classes are taught in English, with the exception of the language courses. After taking the needed classes at El Centro, students then move on to the main campus for the completion of their majors. In addition to the courses offered for academic credit, non-credit offerings, such as lecture series, seminars and workshops are held throughout the academic year.

Each semester, the Educational Leadership Program within the Department of Educational Leadership and Development offers courses from the School Leadership concentration, which leads to a Master's degree and Illinois Type 75 Certification. The School Leadership major at El Centro is an effort to reach out to educators working in bilingual schools and programs or teachers with research interests in Latino communities. The program is taught evenings to accommodate working educators.

For more information, contact El Centro's office at: 3119 North Pulaski Road, Chicago, IL 60641. Telephone: 773.777.9955; Fax: 773.685.1393. El Centro's office hours are: Monday thru Thursday 8:00 am – 9:00 pm; Friday and Saturdays 8:00 am to 1:00 pm.

ENGLISH LANGUAGE PROGRAM

Sandra Hunt, Ph.D., Associate Professor of English,
Coordinator

Lawrence Berlin, Ph.D., Assistant Professor of Linguistics
Rory Donnelly, Ph.D., Professor of Linguistics

The English Language Program provides the opportunity for students to acquire the level of oral and written English Language skills expected of university students. Courses are offered for both native and non-native speakers.

The **ELP Writing Lab** provides tutoring for students from any college in the university who want help with academic writing assignments, and offers assistance to students enrolled in ELP and English composition classes and students preparing for the English Competency Examination. The professional staff is trained to work on a one-to-one basis and can provide assistance with the development and

organization of ideas, the use of research in writing, and revision and editing techniques.

No majors or minors are offered through this program.

COURSE OFFERINGS

The English Placement Test or the English Competency Examination is required before enrollment in any English Language Program course except ELP 118. Permission to enter all courses other than ELP 118 is required prior to registration. Permission can be obtained at the English Language Program office (CLS 2-046).

ELP-DEV-090 Language Competence Skills, 3 cr. (May not be applied towards graduation.) This course is designed for students who, despite prior college-level course work in writing, are unable to pass the English Competency Exam. It provides them with intensive, individualized instruction in the skills associated with college level competency in writing.

ELP-DEV-099 Developmental Writing, 3 cr. (May not be applied towards graduation.) This course provides native speakers of English with intensive work on basic writing skills such as planning, organizing and revising an essay, and emphasizes the development of sentence level skills and proofreading techniques.

ELP-ESL-108 Listening and Speaking, 3 cr. (Non-native speakers of English only.) Practice in the listening and speaking skills used in American universities, with emphasis on comprehension of brief academic lectures, presentation of brief reports, and participation in class discussion.

ELP-ESL-110 English Grammar Skills, 3 cr. (Non-native speakers of English only.) Analysis of and practice in selected English grammatical patterns, with special emphasis on their academic application. To be taken in conjunction with ELP-ESL-120.

ELP-ESL-112 English Language Workshop I, 3 cr. (Non-native speakers of English only.) Basic principles of personal essay writing in English, with emphasis on developing sentence level skills.

ELP-ESL-114 English Language Workshop II, 3 cr. (Non-native speakers of English only.) Introduction to the basic principles used in writing expository essays based on personal experience, and intensive work to improve sentence level skills.

ELP-ESL-120 English Language Workshop III, 3 cr. (Non-native speakers of English only.) Practice and instruction in writing expository essays, with emphasis on paragraph development, increased fluency in written English, and proofreading skills.

ELP-118 Academic Skills, 3 cr. Practice and instruction in the skills students need to succeed in college, such as taking notes, managing time, reading textbooks, writing from sources, thinking critically, and studying for and taking exams. Some sections emphasize the use of the Internet for research.

MATHEMATICS DEVELOPMENT**COURSE OFFERINGS**

MATH-DEV-090 Introduction to Algebra, 3 cr. (Cannot be applied towards graduation requirements.) Studies the real number systems and its operations. Reviews with applications fractions, decimals, percent, and ratios. Applications also include geometry, statistics, and measurement. Algebraic expressions and linear equations are introduced. *Prereq.: placement test.*

MATH-DEV-091 Basic Algebra, 3 cr. (Cannot be applied towards graduation requirements.) Elementary algebra course, including signed numbers, algebraic expressions, laws of exponents, order of operations, linear equations and inequalities, word problems, formulas, polynomials, factoring, radicals, and systems of two linear equations. *Prereq.: MATH-DEV-090 with a grade of "C" or better or placement test.*

READING DEVELOPMENT**COURSE OFFERINGS**

READ-DEV-095 Reading Workshop, 3 cr. (May not be applied toward graduation.) Develops the prerequisite reading skills and strategies necessary to comprehend and recall college text material. Strengths and weaknesses are identified through diagnosis and self-assessment. The course concentrates on preparing for better understanding before reading, solving comprehension problems during reading, and extending comprehension after reading. Registration by permit only.

READ-101 Reading Comprehension, 3 cr. Provides opportunities for students to develop greater proficiencies in reading college level text. Strategies for organizing information, notetaking, discussing materials read, and writing responses to materials read are emphasized. Registration by permit only.

READ-115 Reading for the ESL Student, 3 cr. Designed to meet the needs of non-native speakers of English who wish to improve their English reading comprehension. Active reading of English is promoted through intensive reading, vocabulary development, conversation and writing. Reading for meaning is emphasized. Understanding the importance of intercultural communications and understanding the relationship between language and culture is developed. Registration by permit only.

READ-116 Reading for the Advanced ESL Student, 3 cr. Designed to meet the needs of non-native speakers of English who have advanced English language proficiency and wish to further develop their reading comprehension. Advanced reading skills such as interpretation, inference, critical analysis, evaluation, application, author style and tone, and technical and literary terminology are emphasized in order to comprehend more complex literary genres, including content-specific materials. Registration by permit only.

READ-117 Vocabulary Enrichment, 3 cr. Designed to meet the needs of students who wish to enhance their vocabulary to promote success in reading college text and

work-related materials. Strategies for coping with unfamiliar words in text are emphasized. Registration by permit only.

ACCESSIBILITY CENTER / H.E.L.P.

The Accessibility Center: HELP Program, where the Focus is On Abilities not Disabilities, at Northeastern Illinois University (NEIU) is located in the A-Wing, Room 118. The Center affords students with physical and learning disabilities "reasonable accommodations" and services under federal mandates that ensure equal access to post secondary education while attending NEIU. To apply for services students must "self-identify" disability by submitting documentation based upon diagnosed need from appropriate professionals.

The HELP Program, under the auspices of the Accessibility Center, provides academic support services and technical assistance for students and faculty. The program provides services which include interpreters and translators, advising/registration assistance, note takers, reader/scribe assistance for exams, taped texts, TDY telephone access, emergency taped textbooks, and class handouts. Students with disabilities are encouraged to visit the office before each semester starts to arrange accommodations.

The Accessibility Center offers tutor support to program participants through the Learn and Earn Program in partnership with the Office of Rehabilitation (ORS). Student eligibility for this tutoring program is authorized by the Office of Rehabilitation so NEIU students must qualify for ORS services. Accessibility Center staff acts as the liaison between ORS, faculty, tutors and student participants. Students, with and without disability, are encouraged to apply to provide this vital service to program participants.

SPECIAL PROGRAMS

The Office of Special Programs sponsors two on-going programs (Project Success and Proyecto Pa'Lante) for students with special academic, social or cultural needs. Students in these programs are given a two year adjustment period to meet university academic requirements. They must actively participate in the assistance programs provided and show evidence of academic progress.

Project Success

Project Success recruits and assists primarily inner-city students who have academic potential but do not meet standard admission requirements. Counseling, academic advising and tutorial support is provided to meet the personal and academic needs of the students. Program goals stress the development of good study habits and in turn, promote increased self-confidence in one's ability to achieve academic success.

Proyecto Pa'Lante

Proyecto Pa'Lante is an educational support program designed to recruit and serve primarily Latino students who demonstrate academic potential but might not meet the requirements for

general admission. After admission, the program provides support services for its students in the areas of counseling, academic advisement, tutoring, career development and cultural reinforcement. These services are designed to assist students in their adjustment to the university, to enhance their scholastic achievement, and to encourage their persistence in completing a Bachelor's degree.

Proyecto Pa'Lante es un programa de apoyo educacional creado para reclutar y servir primariamente a estudiantes Latinos que demuestran potencial académico pero que quizás no reúnen los requisitos exigidos por admisión general. El programa provee servicios de apoyo para sus estudiantes en áreas de orientación personal, ayuda académica, tutoría, orientación vocacional, y refuerzo cultural, para ayudar al estudiante a adaptarse a la universidad, mejorando así el progreso académico y la persistencia para adquirir un título universitario.

SUMMER TRANSITION PROGRAM

The Summer Transition Program is a comprehensive eight-week program preparing students for a successful transition from high school to the university. Academic study skills development and content courses are conducted in the morning, with motivational and recreational activities, counseling, academic advising, individual assistance, workshops and tutoring in the afternoon. Students must be admitted to Northeastern Illinois University for the fall term before being accepted into the program. Summer tuition scholarships are available for eligible students.

THE LEARNING CENTER (TUTORIAL CENTER)

Located on the fourth floor of the Ronald William's Library, the Learning Center offers assistance to individuals and groups in the General Education courses. Tutors are both undergraduate and graduate students who are provided with training and proficient in the disciplines in which they tutor. Assistance with motivation, time management and study system development is also provided. Most of the tutors conduct their sessions on the fourth floor of the library, though a few tutors work in the department's location. Tutoring is also available in the Foreign Language, English Language, Mathematics and Reading Laboratories.

Mathematics and Reading Labs

Located in the library, these laboratories provide tutoring and other out-of-class assistance to students.

CENTER FOR INNER CITY STUDIES

Conrad Worrill, Ph.D., Acting Director

Northeastern Illinois University's Center for Inner City Studies demonstrates the University's urban tradition of education, research and service.

The Center for Inner City Studies (CICS) is located at 700 East Oakwood Boulevard in the heart of Chicago. CICS was established by Northeastern Illinois University in 1966 as an outgrowth of its concern for and commitment to Chicago's inner city communities. Since its inception, CICS has focused on the analysis of institutions, systems and people with a direct impact on the quality of life in the inner cities of the U.S. and elsewhere in the world.

The curricular thrust of the undergraduate and graduate programs of CICS is to prepare those who work and live in the inner city to understand and act upon the expressed interests of residents of the inner city and to participate fully in the richness of the African and African-American cultures. Since the beginning, the approach has been interdisciplinary with effective curricula and a philosophy which re-examines every research issue, problem, assumption and question from an African-centered perspective, rather than from the traditional, European-centered viewpoint. This discipline encompasses a research methodology and world-view which achieve different results when applied to present day inner city populations, and leads to new relationships between human and natural resources in the Chicago metropolitan area and world-wide.

The Center for Inner City Studies provides students with general education courses, and courses that will assist them with any NEIU major/career pursuit. Also students can pursue a BACHELOR'S OR MASTER'S DEGREE IN INNER CITY STUDIES. For course listings and descriptions, please refer to the COLLEGE OF EDUCATION under Inner City Studies Education.

The CICS branch of the Ronald Williams Library houses the most extensive resource center on African American issues in the Midwest. In addition, it contains master theses of CICS graduates documenting a multitude of African-Centered research and studies compiled on politics, education, and history of the culture of African-Americans since the late 1960s through 1990.

The CICS computer lab is equipped with 20 computers with online access to the main campus, the Internet and libraries around the world. A live, interactive Distance Education classroom connects CICS with the main campus of Northeastern. The use of distance education provides students on both campuses with many educational opportunities.

The following services and assistance are available to CICS students: academic counseling, financial aid counseling, HELP

Office services, leadership development modules, English Competency Exam support, assistance with registration, as well as Cultural Ensemble (Kuumba Choral and Dance Ensemble). The Summer Transition Program is designed to enhance the skills of entering freshmen and returning adults. The program offers six hours of college credit during the summer while focusing intently on students' study habits, writing skills and preparedness for successful completion of their selected degree program.

Seminars are offered to schools, community organizations, businesses and social services agencies to facilitate and improve communications and understanding of the African-American culture. Seminars are scheduled by request. CICS makes available its facilities to not-for-profit organizations that promote the growth and development of the individual, community and services. CICS also provides other educational services in cooperation with community institutions and organizations. (1) The long standing partnership "Teaching about Africa," is sponsored by the Kemetec Institute in partnership with Chicago Public Schools, and Northwestern University's African Studies Program. (2) A partnership with Abraham Lincoln Centre's Bridge to Work Program designed to prepare individuals to move into the work force.

CENTER FOR TEACHING AND LEARNING (CTL)

Edmund J. Hansen, Ph.D., Director

Located in the Ronald Williams Library, the CTL offers support for both full-time and part-time faculty who want to refine their teaching skills, experiment with new instructional formats, and learn about the application of educational technologies in their classes. The Center provides workshops, educational software training, resources, and individual consultations for faculty members requesting our services. Additional information can be accessed by phone at (773) 442-4467, e-mail: E-Hansen@neu.edu, or on the Web at www.neu.edu/~ctl.

NONTRADITIONAL DEGREE PROGRAMS

Janet Sandoval, M.A., Director

Nontraditional degree programs provide expanded opportunities for quality education with a special emphasis on individual academic advisement in degree programs designed especially for adult students. These programs utilize University faculty to meet the varying needs of their students.

BOARD OF GOVERNORS BACHELOR OF ARTS DEGREE PROGRAM

The Board of Governors Bachelor of Arts Degree Program is a degree program specifically designed to meet the undergraduate needs of experienced adults in a manner compatible with career and family responsibilities. It enables students to complete graduation requirements through an alternative, self-paced approach to higher education.

Application Procedures

Prospective student meetings are held each semester. At these meetings the program is presented, application materials are distributed and further application procedures described.

Admission Requirements

Applicants must have a high school diploma or the equivalent or special permission granted by the University Provost.

An adult holding a baccalaureate degree from a regionally accredited college or university will not be admitted to the Board of Governors Bachelor of Arts Degree Program.

Program Options

The unique structure, flexibility and availability of the Board of Governors Bachelor of Arts Degree Program allows students to utilize a variety of options to complete graduation requirements. In addition to taking courses at Northeastern Illinois University and other universities/colleges, students may use a combination of transfer credits from regionally accredited institutions and credits earned through standardized college level proficiency examinations. Students also have the option of applying for academic credit through the assessment of a prior learning portfolio which describes and documents college equivalent learning acquired outside the traditional college classroom. Beginning with the Spring 2001 semester, the portfolio assessment fee for all BOG/BA students who submit a portfolio has increased to the cost of tuition for two credit hours.

Graduation Requirements

To graduate, students must successfully complete the following requirements:

1. 120 total semester hours;
2. a minimum of 12 semester hours each in the humanities, the social sciences and natural sciences/mathematics;
3. a minimum of 40 semester hours at the upper division (junior/senior) level;
4. a minimum of 15 semester hours of course work at one or a combination of the universities that offer the Board of Governors or Board of Trustees Bachelor of Arts Degree Program.

In addition, all students must pass a college level examination or an equivalent course on the United States and Illinois Constitutions. Students must also pass Northeastern Illinois University's English Competency Examination, fulfill the Improving

Human Relations Requirement, the Computer Literacy Requirement and the Mathematics Competency Requirement. Further details regarding these competency requirements can be found under the heading "Bachelor's Degree Requirements" elsewhere in this catalog. Students must have a minimum overall "C" (2.0) grade point average for all work applied toward meeting degree requirements. Effective Fall 2000 all newly admitted students to the Board of Governors Bachelor of Arts Degree Program at NEIU who earn grades of "D" or "F" at NEIU will have these grades calculated into their grade point average, adhering to the university's grading policy. This policy is applicable to all students entering the BOG Program in the Fall 2000 semester and thereafter. Students must have a minimum cumulative g.p.a. of 2.00 to graduate. For information please call the program office at (773) 442-6030.

More information regarding the Board of Governors Bachelor of Arts Degree Program can be obtained in Room C-529 of the Jerome M. Sachs Building or by calling (773) 442-6030.

UNIVERSITY WITHOUT WALLS PROGRAM

The University Without Walls (UWW) program is a competency-based, self-paced program that leads to a Bachelor of Arts or Bachelor of Science degree. Requiring strong motivation, self-direction, maturity, self-sufficiency and clear academic direction on the part of the student, UWW is geared to meet the adult student's learning needs and long range goals through a course of study that allows for curricular individuality.

Admission

Information meetings are held each semester to explain the program and answer questions. All prospective students are strongly encouraged to attend an information meeting prior to submitting an application. A schedule of information meetings is available at 794-6684 or from Room C-529 in the Jerome M. Sachs Building.

UWW applicants design their own applications: addressing their need for UWW, outlining their prior learning, proposing new learning goals and identifying human resources. All previous college work must be verified by submitting official transcripts and if the student has earned less than 30 college credits, a high school transcript or General Educational Development (G.E.D.) test scores must be submitted.

Program Participation

Each student, with an academic advisor (a Northeastern faculty member) and a community advisor, develops a Learning Contract which outlines the student's individualized curriculum: prior learning experiences and new learning goals. The UWW student's individualized curriculum has three program requirements: depth, breadth, and the ability to communicate effectively. These three elements provide an organizational structure for the Learning Contract.

Students must register as full-time students at NEIU. At the end of every semester, students must submit a Semester Report that specifies learning activities and accomplishments of the semester. Students who make satisfactory academic progress in the program receive a designation of complete for the semester. This designation is equivalent to a minimum of "C" level work. To ensure that UWW students make sufficient academic progress, UWW students are expected to meet with their academic and community advisors at the beginning, mid-point, and end of each semester in which they are registered.

Graduation Requirements

The student's program is monitored closely each semester and upon meeting the Learning Contract terms, the student convenes a graduation Review Board that has the sole authority to authorize graduation. In addition, all students must pass a college level examination or an equivalent course on the United States and Illinois Constitutions. Students must also pass Northeastern Illinois University's English Competency Examination, fulfill the Improving Human Relations Requirement, the Computer Literacy Requirement and the Mathematics Competency Requirement. Further details regarding these competency requirements can be found under the heading "Bachelor's Degree Requirements" elsewhere in this catalog.

More information including the University Without Walls Program Brochure can be obtained from the Sachs Administration Building, room C-529, (773) 442-6030.

UNIVERSITY HONORS PROGRAM

Kathleen Kardaras, Psy.D., Coordinator

The University Honors Program, which is open to undergraduate students in all disciplines, provides an expanded educational experience for academically capable students who are willing to challenge their intellectual abilities by attending Honors courses, seminars, and colloquia and engaging in independent study, research, or creative work. For the past several years, Honors has encouraged coursework that offers international field experiences in collaboration with International Programs.

The small size of Honors classes promotes effective interaction among students and between students and faculty creating an intensive and stimulating learning experience. Successful completion of the Program offers students an added advantage when seeking employment or admission to professional and graduate schools. Consult with Honors Program Coordinator for special non-credit workshops on Thesis/Project preparation.

A limited number of scholarships and tuition waivers are awarded to students on the basis of academic merit. Detailed information on all aspects of the Program is available from

the University Honors Program Coordinator in Room C-520 or by phone at (773) 442-6044; e-mail: K-Kardaras@neiu.edu.

The University Honors Program is composed of two independent tiers: Level I for freshmen and sophomores, and Level II for juniors and seniors.

Level I Honors Program

Requirements for Admission:

Entering Freshmen: Minimum composite enhanced ACT score of 25 or, class rank in the upper 10 percent and minimum composite enhanced ACT score of 23.

Two letters of recommendation from teachers or counselors.

Transfer Students: Minimum cumulative GPA of 3.25 (based on a 4.0 scale) in transferable courses.

Two letters of recommendation from instructors or permission of the University Honors Program Coordinator.

Transfers from other Honors Programs are welcome and encouraged. Credits earned in other Honors Programs are accepted as per approved articulations.

Enrolled Students: Minimum GPA of 3.25; between 15 and 59 hours earned.

Two letters of recommendation from instructors or permission of the University Honors Program Coordinator.

Requirements for the Program:

The Level I Honors Program requires completion of 21 credit hours distributed among general education courses offered in Honors sections. All courses will be designated as Honors credits on the student transcript.

Students receive a Level I Honors Certificate if they have completed the required Honors course work with a minimum GPA of 3.25, have completed at least 60 credit hours with a minimum GPA of 3.25, and have passed the English Competency Exam.

Level II Honors Program

Requirements for Admission:

Successful completion of Level I Honors Program, or

Junior standing with cumulative GPA of 3.25, or

Satisfactory participation in an Honors Program at another 4-year institution, or

A degree from a 2-year junior or community college with a minimum GPA of 3.25 (based on a 4.0 scale.)

Requirements for the Program:

These requirements may also satisfy electives in the major or minor.

HNRS-397 Honors Colloquium	3 cr.
HNRS-398 Honors Seminar	3 cr.
HNRS-399 Honors Thesis/Project	3 cr.
Honors Electives in the major	6 cr.
Total	15 cr.

Students receive a Level II Honors Certificate if they have completed the required Honors course work with a minimum GPA of 3.25, have completed the University course requirements for graduation with a minimum cumulative GPA of 3.25, and have passed the English Competency Exam. A designation of **Honors Scholar** will also be imprinted on the diploma. Honors students may also qualify to be on the Dean's List. Check for details with the program office.

COURSE OFFERINGS

HNRS-397 Honors Colloquium, 3 cr. Specialized and intensive investigation of topics in broadly defined areas of issues of current interest; readings, discussions, guest lecture. A paper and oral presentation are required. *Prereq.:* consent of the University Honors Program Coordinator.

HNRS-398 Honors Seminar, 3 cr. Specialized and intensive investigation of a topic in narrowly defined areas, such as Fine Arts, Sciences, etc. A paper and oral presentation are required. *Prereq.:* consent of the University Honors Program Coordinator.

HNRS-399 Honors Thesis/Project, 3 cr. Guidance of students conducting research or preparing a creative work, usually relevant to their major field, to fulfill the requirements of the Level II Honors Program. Thesis preparation workshops are provided to enhance the experience.. *Prereq.:* consent of the University Honors Program Coordinator.

HONORS ELECTIVES: Students may earn Honors credit in their major for courses not offered in Honors sections by attending a regular 300-level course and completing additional work specified in an Honors Learning Agreement between the student, the instructor, and the University Honors Program Coordinator. Consult the University Honors Program Coordinator for further information.

HONOR SOCIETIES

Membership in an honor society promotes scholarly communication and recognizes superior scholarship and/or leadership achievement. Twelve honor societies currently have chapters at Northeastern Illinois University. Many are member societies of the Association of College Honor Societies.

The honor societies at Northeastern Illinois University are listed alphabetically, by discipline:

All Academic Disciplines: Alpha Chi/Illinois Zeta Chapter
 Purpose: To recognize scholarship and advance the University's commitment to academic excellence.

Contact: University Honors Program, Kathleen Kardaras

Biology: Beta Beta Beta/Omega Xi Chapter; Purpose: To improve the understanding and appreciation of biology.

Contact: Biology Department, Dr. Don Fanslow

Chemistry: Iota Sigma Pi/Aurum Iodide Chapter (for women in Chemistry)

Purpose: To grant recognition to women who have demonstrated superior scholastic achievement and high

professional competence.

Contact: Chemistry Department, Dr. Veronica Curtis-Palmer

Economics: Omicron Delta Epsilon/Sigma Chapter of Illinois

Purpose: To recognize scholastic attainment and honor outstanding achievements in economics.

Contact: Economics Department, Dr. Audie Brewton

Education: Kappa Delta Pi/Sigma Epsilon Chapter

Purpose: To recognize superior scholastic achievement in students who are preparing to be educators and to promote the diffusion of knowledge about effective teaching.

Contact: Educational Foundations Department, Dr. Elaine Cooper Koffman

English: Sigma Tau Delta/Psi Upsilon Chapter

Purpose: To brevet distinction upon undergraduates, graduates and scholars in academia as well as upon professional writers who have realized accomplishments in linguistics or literary realms of the English language.

Contact: English Department, Dr. Timothy Libretti.

French: Pi Delta Phi, Iota Epsilon Chapter

Purpose: To recognize outstanding scholarship in French language and literature.

Contact: Foreign Languages and Literatures Department, Ms. Dorette Klein

Geography: Iota Pi/Gamma Theta Upsilon Chapter

Purpose: To encourage student research, to strengthen professional training and to advance the status of geography.

Contact: Mr. Robert Easton.

History: Phi Alpha Theta/Pi Gamma Chapter

Purpose: To recognize and promote scholarship in history.

Contact: History Department, Dr. Patrick Miller.

Political Science: Pi Sigma Alpha/Theta Lambda Chapter

Purpose: To advance and diffuse knowledge and interest in political science.

Contact: Political Science Department, Dr. Charles Pastors.

Psychology: Psi Chi

Purpose: To advance the science of psychology, stimulate scholarship and research.

Contact: Psychology Department, Dr. Linda Rueckert.

Spanish: Sigma Delta Pi, Mu Xi Chapter

Purpose: To work for the benefit of the Spanish language and the Hispanic culture.

Contact: Foreign Languages and Literatures Department, Dr. Vicki Román-Lagunas.

Speech/Theatre Division

Alpha Psi Omega/Alpha Gamma Phi Cast

Purpose: To develop talent in all aspects of theatre, to foster the cultural values theatre develops, and to encourage cooperation and collaboration among member casts.

Contact: Speech and Performing Arts Department, Mr. Rodney Higginbotham.

Speech/Communication Division

Lambda Phi Eta/Kappa Pi Chapter

Purpose: To recognize, foster, and reward scholastic achievement within the field of communication and to encourage professional development among communication majors.

Contact: Speech and Performing Arts Department, Dr. Karen Ijams.

Further information about the honor societies, including specific requirements, inductions, membership fees and activities can be obtained from the department and/or sponsor.

INTERNATIONAL PROGRAMS

Rubee L. Fuller, Coordinator

The Office of International Programs was established in 1996, a reflection of Northeastern's commitment to an internationalized curriculum. Its goal is to prepare students to function effectively in the global economy of the twenty-first century. To accomplish this goal, the University is increasing study abroad opportunities for students, expanding international student enrollments, encouraging and facilitating international faculty and student exchanges, and establishing partnerships with overseas institutions. The program staff works closely with other Illinois colleges and universities to promote the awareness and importance of international education.

NEIU also collaborates with other universities in joint projects sponsored by National Security Education Program (NSEP) and Fulbright-Hays Programs.

Study abroad is an effective educational experience to enhance students' understanding of people of the world, sharpen their sensitivity, and increase their inter-cultural competence. Students can take NEIU courses which include a study trip to countries such as Belize, India, China, Korea, Jamaica, Germany, England and others as an integral part of the course. Students may also spend a semester taking classes in an accredited institution in Mexico, Spain, France, Israel, Japan, South Africa or other parts of the world. Students eligible for financial aid may apply some or all of their award towards study abroad programs. NEIU students also qualify to apply for study abroad scholarship opportunities with the Institute of International Education (IIE), NSEP and other organizations. For more information about the different programs and scholarship opportunities, call (773) 442-4796 or e-mail to deptip@neiu.edu.

INTERNATIONAL STUDENTS

International students are required to meet with the international student advisor in the Office of International Programs for orientation, program extension, change of major, and practical training. All international students must maintain full-time enrollment in order to comply with federal regulations.

THE GRADUATE COLLEGE

Janet Fredericks, Ph.D., Educational Leadership
and Development, Dean

Rosemary J. O'Grady, M.A., Coordinator of Graduate Records

Ada Umeh, M.A., Coordinator of Graduate Admissions

Northeastern Illinois University, through its Graduate College and faculty, provides the resources, the facilities and the academic environment to advance learning, to foster creativity, and to nurture intellectual independence in graduate education. Graduate students pursue advanced studies and join faculty in extending knowledge through research and scholarly activities.

The Graduate College offers the majority of its coursework during the late afternoon and evening hours to accommodate individuals who are pursuing a master's degree on a part-time basis. Students wishing to carry a full academic load should anticipate course scheduling limitations and plan accordingly.

At present, the Graduate College offers Master's degree programs in 38 academic concentrations. All students admitted to the Master's programs are enrolled in the Graduate College and governed by its policies and procedures. Graduate students, therefore, have different tuition rates, grievance procedures, and registration processing. They are eligible to apply for the teaching/research assistantships and tuition waivers available through the College and departments.

Applications, both for admission and graduation, are accepted for each academic term as per the schedule provided with the application materials and published in the Schedule of Classes. Applicants are advised to check with the Graduate College office for any changes or special situations.

ORGANIZATION OF THE GRADUATE COLLEGE

The dean is responsible for implementation of institutional policies related to the Graduate College. Such policies are established in collaboration with the Graduate College Advisory Committee, a group elected by and from the faculty. Graduate advisors are assigned by the disciplines in which the graduate students are enrolled.

Mailing Address and Office Hours

Student inquiries, applications, transcripts and petitions should be directed to the **Dean of the Graduate College, Room CLS-4029, Northeastern Illinois University, 5500 N. St. Louis Avenue, Chicago, Illinois, 60625-4099**. Application material may be picked up in the College office or requested by phone.

The College office is open between 8:30 a.m. and 7:15 p.m. Monday through Thursday, and 8:30 a.m. to 5:00 p.m. on Friday. You may reach the College office at (773) 442-6000, 6001, 6002.

Graduate Advisors / Coordinators

Each graduate program has a Graduate Advisor/Coordinator who serves as an important link with the Graduate College. A Graduate Advisor/Coordinator evaluates and processes applications for admission to a program in the Graduate College, and for graduation from the College, advises on program of study, informs students of departmental regulations and procedures, monitors students' academic progress, and recommends students for merit tuition awards. Students are urged to keep in contact with their advisors on a semesterly basis. Students admitted to the Graduate College are entitled to receive a copy of the **Graduate Student Handbook** which is available in the Graduate College Office.

GENERAL ADMISSION REQUIREMENTS

All applicants who wish to be admitted to the Graduate College at Northeastern Illinois University must prepare applications following the instructions in the self-managed application for admission. They must submit applications and official transcripts to satisfy the following general requirements:

1. Possession of a degree from an accredited college or university.
2. Demonstration of a high level of scholastic ability as reflected by an undergraduate grade point average of 2.75 or better (4-point scale). All course work completed prior to the bachelor's degree is computed in this average. Any previous graduate credit is also taken into appropriate consideration.

Degree transcripts from foreign schools require special evaluation (check the section entitled "International Students" in the instructions included with the application for the address of the agency for the evaluation of foreign credentials). Before admission into a degree program, and based on the credential evaluation, applicants may be required to complete additional coursework and/or fulfill other Graduate College requirements.

Application fee: A non-refundable \$25.00 application fee must be paid. Checks/money orders/bank draft must be drawn in favor of Northeastern Illinois University. If paid in cash at the university Cashier's Office, the receipt should be attached with the application package.

ADMISSION TO A DEGREE PROGRAM

Full admission to a specific Master's degree program requires:

1. Fulfillment of the general requirements for admission to the Graduate College. Consult program descriptions and/or application instructions for specific departmental application requirements.
2. Submission of all parts of the completed Graduate College self-managed application for admission.
3. As part of the self-managed application, receipt of one copy of the transcript from each college/university previously attended (other than Northeastern Illinois University). Work showing as transfer credit on the transcript of another institution does not negate the requirement for the receipt of the original transcript of such credit.

The Graduate College does not normally accept in-hand transcripts submitted by students. Once a transcript has been received it cannot be released from the files of the Graduate College. In cases where the college(s)/university(ies) will not release transcripts directly to the student, it is the applicant's responsibility to arrange for receipt of transcripts by the Graduate College directly from the college(s)/university(ies) previously attended.

4. Satisfactory completion of the published program prerequisites.
5. An average of at least B (3.0) in the undergraduate major or work that is the foundation for the Master's program.
6. Some programs require applicants to take the Graduate Record Examination (GRE general as well as the subject test) or the Graduate Management Admission Test (GMAT). Students must arrange to send the test scores to the Graduate College at Northeastern to avoid delay or denial of admission. Northeastern Illinois University's code is 1090.
7. Departmental or program committee approval. The final decision rests with the faculty of the appropriate department.

Provisional admission to a degree program may, in some cases, be granted upon the approval of the dean and the program advisor. Conditional status may result from:

1. Degree from an institution for which academic credit equivalency cannot be established or one that issues transcripts with ungraded academic records.
2. Lack of specific program prerequisites. Completion is required by such time as deemed appropriate by the dean and by the program advisor.
3. An erratic undergraduate academic record.

Students admitted conditionally must achieve a minimum B (3.0) average in the first 12 credits in the program; otherwise, the admission will be rescinded. Such students could, however, continue to take courses as graduate students-at-large subject to the regulations appropriate thereto.

Contingent admission may be granted to an undergraduate senior who meets all the requirements for admission to the College and the program, and is within 9 semester hours of completing an undergraduate degree. However, the student must submit the degree transcript within one semester after commencing the graduate program of study or the date prescribed in the letter of admission for admission to be valid. Courses used to fulfill the undergraduate degree requirements will not apply to the graduate degree program of study.

After the application has been evaluated, the student will receive a letter from the Graduate College indicating the results. If the admission file/evaluation is not completed by the time of registration, the student may choose to register as a graduate student-at-large provided the appropriate application has been filed with the Office of Admissions and Records in accordance with their established deadlines. Foreign students requiring an I-20 form (Certificate of Eligibility for Nonimmigrant Student Status) are not eligible to register until admitted to a degree program.

Since each graduate degree program has its own specific course requirements, it is imperative that the student assume the responsibility for contacting the assigned advisor in the program. The letter of admission will identify the advisor. The student should arrange for an appointment with the advisor well in advance of any registration period. Detailed program counseling cannot be done, and should not be expected, at registration time.

Admission Acceptance / Deferral

Students admitted to the Graduate College will receive an **Admission Acceptance Form** which they must complete and return within 30 days of its receipt. In order to validate their admission, graduate students are strongly urged to register for courses for the term they are admitted. Students may request, in writing, a deferral of their matriculation for up to one year. The Dean of the Graduate College, in consultation with the departmental Graduate Advisor, may approve deferral.

REQUIREMENTS FOR DEGREE APPLICANTS

In addition to the requirements for admission to the Graduate College and to a specific Master's degree program, the student is also responsible for the following:

1. **For students admitted to Master's programs prior to the Fall 1997 semester**, the majority of courses applied to the Master's degree must be 400-level; a limited number of appropriate 300-level courses are applicable.

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with your program advisor or the Graduate College for details.**

Workshops, institutes, or similar courses which are designed to meet their own specific needs or purposes are not normally acceptable. They must meet the academic rigor and standards expected of a graduate course.

2. Education courses that prepare students for initial teacher certification are not applicable to Master's degree programs.
3. All graduate credits within the scope of the specific Master's program, not only those actually applied, must average at least B (3.0). No more than six hours of C credit is acceptable. Grades below C bear no credit toward the degree. Upon receiving a third grade of C, the student must petition the Dean of the Graduate College, in writing, providing full rationale for permission to continue in the program. A petition must be filed

within 60 days from the time the status was affected. The petition will be reviewed by the Dean and the Graduate Advisor and the student will be informed of the decision within 30 days after the petition is received. The student will become ineligible for the degree and will be dropped from the program upon receiving grades below "B" in four courses (three for the Exercise Science Program).

4. To remain in good standing in a degree program in the Graduate College, the student must make satisfactory progress on a continuing basis. Lack of progress will normally result in the student being dropped from the program.

DOCUMENTS TO BE SUBMITTED BY DEGREE CANDIDATES

After admission to a graduate program and to the time of the awarding of the Master's degree, the applicant must submit to the Graduate College the following documents in the sequence indicated:

1. **Application for Acceptance to Candidacy** for the Master's degree. This form should be submitted after the student has been admitted to a degree program. It is due upon completion of 12 credit hours, 15 credit hours for Counseling, of coursework with a grade point average of at least B (3.0). A maximum of six hours of coursework accepted as transfer from other colleges/universities may apply. All provisions for students admitted conditionally must be satisfied.
2. **Application for Graduation.** Application for graduation should be filed according to the instructions and the schedule provided with the application. Dates are also specified in the Schedule of Classes. Students may file the Application for Graduation in the term in which they expect to graduate even if they are registered at Northeastern for that semester for course(s) required for the degree. Candidacy is a pre-requisite for filing for graduation. A non-refundable and non-transferable graduation fee must accompany the application. This fee cannot be carried over if the student fails, for any reason, to graduate on schedule. Extensions and/or exceptions cannot be granted and should not be requested.

Upon evaluation of the graduation application, the student will receive a response from the Graduate College indicating outstanding requirements and whether or not there is a possibility for completion of all requirements by a deadline date. For updated deadline dates, contact the Graduate College.

3. A **WORK COMPLETION DATE** is established for each semester for the students who expect to graduate at the conclusion of the semester and is published in the Schedule of Classes. This is the date by which the Graduate College must receive proof that all graduation

requirements are complete including submission of the defended thesis, projects, removal of "I" grades, receipt of comprehensive examination results, etc. The work completion date does not apply to current registration.

TRANSFER OF CREDITS, TIME LIMITATIONS, ETC.

1. A maximum of nine credit hours of transfer credit from other colleges/universities may be accepted. Students desiring to transfer credits must first be admitted to a degree program and then write a letter of petition to the dean. The course(s) in question should be identified by title, number, and a general description. A transcript of the work must be on file in the Graduate College along with course descriptions/syllabus and verification that the courses were applicable to a graduate program at the institution where they were taken. Workshops, institutes or other similar courses are generally not eligible for transfer credits. The criteria for acceptance are a) the work must have been completed at an accredited institution, b) it must be relatively recent, c) the grade(s) must be at least B, and d) the course(s) must be applicable to the degree sequence.
2. In the case of graduate credit taken at colleges/universities outside of the United States, recommendation of the appropriate department and approval of the dean are required. Documentation of work abroad will be necessary, and consultation with an outside agency may be required.
3. A maximum of six credit hours taken at Northeastern Illinois University, prior to the granting of the bachelor's degree, may be considered for acceptance for a Master's program if these credits a) have not been applied to the baccalaureate degree, b) are applicable, and c) were completed no more than 12 months prior to the date of baccalaureate graduation. The office of Admissions and Records must be advised, in writing, of a student's intention to petition to apply those courses to a Master's program. The above applies only to Northeastern Illinois University graduates.
4. Courses used as part of a previous degree cannot be applied toward meeting degree requirements.
5. The graduate program must be completed within a period of six years. Course credit will be withdrawn for any work, including transfer credits, completed more than six years prior to the granting of the Master's degree.
6. Students applying for waiver of specific course requirements through demonstration of competence may petition the appropriate department or program committee or the Graduate College. If a waiver is approved, the student must complete an equal number of alternate credits, if applicable.

7. Courses taken as a student-at-large with a degree at Northeastern Illinois University by students denied admission into a graduate program are not accepted in a Master's program. The eligible maximum for students qualified for admission or admitted to a program is nine credits, and such work would have to correspond to specific program requirements and satisfy all scholastic requirements of the Graduate College.

THESIS PROCEDURES

The Form for Thesis Seminar may be obtained from the Graduate College. Completed forms must be submitted to the records office at least one week prior to registration. Degree Candidacy is a pre-requisite for registration for the Thesis Seminar.

The "Manual of Thesis Procedures" is available without charge from the Graduate College. Students who write a thesis or do a project as part of their graduate degree requirements are expected to be familiar with and to follow the guidelines as indicated in this pamphlet.

GRADUATE COLLEGE THESIS AWARDS

Each year the Graduate College Advisory Committee awards \$500 to the student whose thesis is selected by the committee to be the most outstanding thesis of the year. The Graduate College Advisory Committee also presents two students with awards of \$250 for theses considered to be worthy of special recognition. In order to be eligible for these awards faculty advisors are required to submit a letter of nomination to the Graduate College on behalf of the student.

CERTIFICATION OF STATUS

If a graduate student has completed all academic requirements and is awaiting the formal awarding of a degree, the Dean of the Graduate College, upon the student's written request, will issue a letter certifying the student's status. Such letters are normally accepted by boards of education for salary increment purposes and by other universities as certification that the degree has been earned.

EXCEPTIONS

Exceptions to the published regulations of the Graduate College may be made only after approval of the Dean, following the submission of a written petition.

GRADUATE MERIT TUITION AWARDS/ ASSISTANTSHIPS

The Graduate College gives a limited number of merit tuition awards to qualified students in good academic standing upon the recommendation of Graduate Advisor(s)/Coordinator(s) of their program of study. Students must apply to their respective departments for consideration of a part-time or a full-time award.

Students may also contact the Financial Aid office for the availability of various fellowships and other forms of financial assistance.

Students interested in appointment as a tutor or teaching/research assistant should consult with the department for eligibility and application. All appropriate forms for processing the hiring of graduate assistants are available in the College Office.

CHANGES IN POLICY

Northeastern Illinois University reserves the right to make policy changes from time-to-time when necessary.

MASTER'S DEGREE PROGRAMS

The following Master's degree programs are presently being offered by the Graduate College of Northeastern Illinois University. Coursework is offered essentially on an extended-day basis for part-time students. At present, there is no application fee.

PROGRAMS IN ARTS AND SCIENCES

- M.S. BIOLOGY
- M.S. CHEMISTRY
- M.S. COMPUTER SCIENCE
- M.S. EARTH SCIENCE
- M.A. ENGLISH
 - Literature
 - Composition/Writing
- M.A. GEOGRAPHY AND ENVIRONMENTAL STUDIES
- M.A. GERONTOLOGY
- M.A. HISTORY
- M.A. LINGUISTICS
- M.S. MATHEMATICS
- M.A. MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS
- M.A. MUSIC
- M.A. POLITICAL SCIENCE
- M.A. SPANISH*/FRENCH*
- M.A. SPEECH

PROGRAMS IN BUSINESS AND MANAGEMENT

- M.B.A. BUSINESS ADMINISTRATION
- M.S.A. ACCOUNTING

PROGRAMS IN EDUCATION

- M.A. EDUCATIONAL LEADERSHIP
 - School Leadership
 - Higher Education Leadership
 - Chief School Business Official
- M.A. COUNSELING**
 - Community Counseling
 - School Counseling
- M.S. EXERCISE SCIENCE***
 - Fitness and Wellness
 - Human Performance
- M.A. FAMILY COUNSELING
- M.A. HUMAN RESOURCE DEVELOPMENT
- M.A. INNER CITY STUDIES
- M.A. READING
- M.A. GIFTED EDUCATION
- M.A. SPECIAL EDUCATION***
- M.A.T. BILINGUAL/BICULTURAL
- M.S.I. BILINGUAL/BICULTURAL
- M.A.T. LANGUAGE ARTS
 - Elementary Education
 - Secondary Education
- M.S.I. LANGUAGE ARTS
 - Elementary Education
 - Secondary Education

* Cooperative program with Roosevelt University which awards the degree.

** Contact Graduate Office for periods when applications are accepted.

*** Program modifications in the approval process.

COLLEGE OF ARTS AND SCIENCES

Kate Langdon Forhan, Ph.D., Dean,
Professor of Political Science

Roger W. Gilman, Ph.D., Associate Dean,
Associate Professor of Philosophy

The College of Arts and Sciences is the largest of the University's colleges. It comprises 16 departments which offer 14 master's degrees, 24 bachelor's degrees, and 32 minors. In addition, the College is responsible for the General Education program. The College offers all of the general education courses that serve the University's undergraduate students.

It is the goal of the College to help students develop their individual view of the world by acquiring social and cultural awareness as well as a broad knowledge of a number of disciplines. The fine arts, humanities, natural sciences, social sciences, and professional studies all contribute to enriching students' intellectual lives and enabling them to grow into more informed and responsible citizens.

It is a further goal of the College to provide undergraduate major programs in a variety of both traditional and career-oriented disciplines. Therefore many departments, in cooperation with local business, industry, and social agencies offer their majors the opportunity for field experience or internships in addition to course work.

DEPARTMENTS

Anthropology, Linguistics and Philosophy

Audrey Reynolds, Ph.D., Professor of Linguistics, Chair

Art

Mark McKernin, M.F.A., Professor, Chair

Biology

Simon Chung, Ph.D., Associate Professor
of Biology, Chair

Chemistry, Earth Science and Physics

Pratibha Varma-Nelson, Ph.D., Professor
of Chemistry, Chair

Computer Science

Richard Neapolitan, Ph.D., Professor, Chair

Economics and Geography & Environmental Studies

Diane Stehman, Ph.D., Associate Professor
of Economics, Chair

English

Gary Brodsky, Ph.D., Associate Professor, Chair

Foreign Languages and Literatures

Vicki Román-Lagunas, Ph.D., Associate Professor
of Spanish and Women's Studies, Chair

History

Gregory Singleton, Ph.D., Professor, Chair

Justice Studies and Social Work,

Mikal Rasheed, Ph.D., Associate Professor of
Social Work, Chair

Mathematics

Joo Koo, Ph.D., Professor, Chair

Music

R. Shayne Cofer, Ph.D., Associate Professor, Chair

Political Science

Psychology

Saba Ayman-Nolley, Ph.D., Professor, Chair

Sociology, Women's Studies and Mexican/Caribbean Studies

Wamucii Njogu, Ph.D., Associate Professor of
Sociology, Chair

Speech and Performing Arts

Harold Hild, Ph.D., Professor, Chair

UNDERGRADUATE MAJORS

Baccalaureate degrees are offered in the following disciplines:

- Anthropology
- Art
- Biology
- Chemistry
- Computer Science
- Earth Science
- Economics
- English
- Environmental Studies
- French
- Geography
- History
- Justice Studies
- Mathematics
- Music
- Philosophy
- Physics
- Political Science
- Psychology
- Social Work
- Sociology
- Spanish
- Speech
- Women's Studies

Certification for teaching in secondary schools is available for the following disciplines:

- Art
- Biology
- English
- History
- Mathematics
- Music
- Spanish

Students interested in teaching in secondary schools should consult the appropriate department entry and the Secondary Education section of this catalog.

UNDERGRADUATE MINORS

- Anthropology
- Art
- Asian Studies
- Biology
- Chemistry
- Computer Science
- Dance
- Earth Science
- Economics
- English
- French
- Geography and Environmental Studies
- Gerontology
- History
- Justice Studies
- Korean
- Linguistics
- Mass Media
- Mathematics
- Mexican/Caribbean Studies
- Music
- Philosophy
- Physics
- Political Science
- Psychology
- Public Administration
- Social Work
- Sociology
- Spanish
- Speech
- Theatre
- Women's Studies

GRADUATE PROGRAMS

Departments in the College of Arts and Sciences offer 14 master's degree programs which are listed below.

General requirements for graduate admission to the University and to specific degree programs can be found in the Graduate College section and in the appropriate departmental sections

of this catalog. Graduate students who have specific questions should contact the appropriate departmental office.

- Master of Science in Biology
- Master of Science in Chemistry
- Master of Science in Computer Science
- Master of Science in Earth Science
- Master of Arts in English
- Master of Arts in Geography & Environmental Studies
- Master of Arts in Gerontology
- Master of Arts in History
- Master of Arts in Linguistics
- Master of Science in Mathematics
- Master of Arts in Mathematics for Elementary School Teachers
- Master of Arts in Music
- Master of Arts in Political Science
- Master of Arts in Speech

DECLARATION OF MAJOR

Students who wish to declare a major must complete the Declaration of Major form and submit it to the appropriate major department. Forms are available in all departmental offices. All declared majors should request the name of an advisor from their major departments.

In certain programs special requirements must be fulfilled prior to admission to the major program. Students should consult the appropriate sections of this catalog for additional information, and contact the departmental chairperson, program coordinator or departmental advisor during the first term of the students' enrollment.

GRADUATION REQUIREMENTS

Students in the College of Arts and Sciences must meet all university requirements as well as the specific requirements for graduation within their particular major.

To be counted toward the major, courses transferred to the University must be accepted by the student's major department.

Transfer students must complete a minimum of 15 credit hours in courses at the 200 and/or 300-level in their majors at Northeastern Illinois University. At least 9 credit hours for a minor must be completed at NEIU.

PROGRAMS

ANTHROPOLOGY

Audrey Reynolds, Ph.D., Professor, Chair
 Lesa C. Davis, Ph.D., Assistant Professor
 Russell G. Zanca, Ph.D., Assistant Professor, Coordinator

By surveying diverse peoples and their cultures, the study of our human and human-like past, our physical attributes, and non-human primates (including monkeys and apes), we gain a deep understanding of our contemporary cultures and biology as well as what makes us so like and unlike our nearest living mammalian relatives.

The Anthropology Program offers cultural, archeological, and physical courses that emphasize current global issues while giving students hands-on opportunities to take part in anthropology-related matters in the city.

UNDERGRADUATE PROGRAMS

Major in Anthropology for the Bachelor of Arts Degree

Required Courses:

ANTH-212 Cultural Anthropology	3 cr.
ANTH-215 Human Origins	3 cr.
ANTH-355 History of Anthropological Theory	3 cr.
ANTH-362 Senior Seminar in Anthropology I	3 cr.
ANTH-363 Senior Seminar in Anthropology II	3 cr.
One archaeology course	3 cr.
One topical course	3 cr.
Two ethnographic survey courses from different geographic areas ("Peoples of...", "American Indians", "Pacific Islanders", etc.)	6 cr.
Two additional 300-level anthropology courses (from cultural, physical, or archaeological subdisciplines)	6 cr.
Total	33 cr.

Minor in Anthropology (18 cr. hrs.)

Required Courses:

ANTH-212 Cultural Anthropology	3 cr.
ANTH-215 Human Origins	3 cr.
Twelve credit hours in anthropology as approved by the designated department advisor	12 cr.
Total	18 cr.

COURSE OFFERINGS

ANTH-212 Cultural Anthropology, 3 cr. The concepts of cultural anthropology applied cross-culturally. Primary focus is on custom, behavior and ideology relating to daily life, social organization, economy, politics, kinship and religion in non-western societies of Asia, Africa, Latin America and Oceania; examples for comparative purposes may be drawn from the U.S. (including minorities) and Europe.

ANTH-214 Peoples of Africa, 3 cr. A survey of the diversity of African societies, with emphasis on sub-Saharan Africa. Includes pre-colonial and colonial history.

ANTH-215 Human Origins, 3 cr. Investigates who we are and where we came from; an introduction to human biological and cultural evolution. Fossils, archaeology, and evidence from living people and animals are pieced together in looking at our adaptations through time.

ANTH-216 Latin American Archaeology, 3 cr. The evolution of culture in Mexico, Central America, South America, and the Caribbean with emphasis on Mexico and Guatemala. Slides and other illustrative materials are used extensively.

ANTH-217 North American Archaeology, 3 cr. Prehistory of Native Americans (American Indians) in the United States and Canada, evolution of their cultures from the Ice Age to the Seventeenth Century A.D. through examination of their artifacts. Extensive use is made of visual materials to illustrate cultural development.

ANTH-223 North American Indians, 3 cr. Survey of the cultures of North American Indian tribes at the time of contact with Europeans. The record of Indian- non-Indian relationships from colonial times to the present is analyzed in the light of its impact on changing Indian culture and society.

ANTH-232 Psychological Anthropology, 3 cr. Relationship between culture and the development of the personality. What is the effect of culturally different child-training techniques on the child's personality? How do society's goals, values, and attitudes affect the parents' behavior? Stresses the ideal personality and how parents, teachers, and others try to develop it.

ANTH-234 American Folklore, 3 cr. Social and historical survey of American folklore from colonial days to the twentieth century. Includes New England tombstones, the midwestern frontier, cowboys, outlaws, and blues singers.

ANTH-240 Topics in Anthropology, 3 cr. Exploration and analysis of contemporary topics and anthropological films from an anthropological perspective. Consult the Schedule of Classes for specific topics.

ANTH-303 Pacific Islanders, 3 cr. Ethnographic survey of the peoples and cultures of the Pacific Island areas of Melanesia, Polynesia, and Micronesia, emphasizing continuities between traditional times and today.

ANTH-304 Peoples of India, 3 cr. Ethnographic survey of the contemporary peoples and cultures of India, emphasizing the continuity as well as the diversity within that ancient civilization.

ANTH-305 Peoples of South America — The Anthropology of South America, 3 cr. Ethnographic survey of the contemporary peoples and cultures of South America. Selected Indian cultures, peasant communities, and urban societies are compared.

ANTH-308 Peoples of Mexico, Central America, and the Caribbean, 3 cr. Ethnographic survey of the contemporary peoples and cultures of Mexico, Central America, and the Caribbean Islands. Emphasis is on Spanish and Indian language areas. In-depth examination of 4-6 cases.

ANTH-309 Egyptian Archaeology, 3 cr. The study of ancient Egyptian society and culture, traced from the late Predynastic through the New Kingdom periods with emphasis on the archaeological evidence: settlement patterns, monuments, and other artifacts in their spatial and temporal contexts. Slides and other illustrative materials are used extensively.

ANTH-310 Middle Eastern Archaeology, 3 cr. Study of ancient cultures of the Middle East, emphasizing Greater Mesopotamia, the region of the Tigris-Euphrates River drainage, from prehistoric times to the fifth century B.C.; artifacts, monuments, and settlement patterns of ancient Mesopotamian societies. Slides and other illustrative materials are used extensively.

ANTH-313 Witchcraft and Sorcery, 3 cr. Study of some of the supernatural explanations of evil with major emphasis on the description of the various forms of these beliefs and the reasons, both conscious and unconscious, for these beliefs. Examples are drawn from the non-Western world, medieval through seventeenth century Europe and Old and New England.

ANTH-314 Anthropology of Religion, 3 cr. Study of the ways that religions, both past and present, act to support or alter the social systems or sub-systems with which they are associated. The ways that individuals respond to the value systems and world views of various religions are examined, as well as the individual motivations for adherence to the various religions.

ANTH-315 Greek Archaeology: Bronze Age, 3 cr. Cultural remains of Bronze Age Greece are used to reconstruct society from 3000 B.C. Extensive use is made of color slides of sites and artifacts.

ANTH-316 Greek Archaeology: Classical Age, 3 cr. Cultural remains of Classical Greece are used to reconstruct society from 1000 B.C. to 336 B.C. Extensive use is made of color slides of sites and artifacts.

ANTH-317 Health, Illness, and Culture, 3 cr. What are the thoughts, practices, and habits concerning "health", "illness", and the management of the body and person in daily and ritual situations? American customs, folk medicine and healing techniques are examined and compared to the beliefs and behaviors of other cultures. What are the roles of the "healer", "patient", and physician as culture defines them? What is the relationship between "medicine" and "religion"?

ANTH-333 Proseminar in Urban/Applied Anthropology, 3 cr. Urban/applied topics such as, urban ethnography, medical anthropology, museology, public archaeology, ethnic assimilation, and educational anthropology. Detailed discussions, preparation, and critique of projects based on library, field or laboratory work. Consult the Schedule of Classes for specific topics. (Formerly ANTH-URB-333)

ANTH-341 Culture and Poverty, 3 cr. An in-depth examination and analysis of poor peoples. Special attention is paid to the external forces of the larger society, the coping mechanisms of the poor and the existing life styles found in low-income communities.

ANTH-345 Physical Anthropology, 3 cr. What can physical (biological) anthropology tell us about human variation? Hands-on experience with human bones and other tissues of the body at the microscopic and macroscopic levels. Problems in human evolution and adaptation to different environments are investigated. Selected topics in physical anthropology are discussed, such as: biology and behavior (sociobiology); earliest humans, problems in interpreting Pliocene hominids; range of variation in living populations. *Prereq.:* ANTH-215 and 3-6 hours in biology or consent of instructor.

ANTH-350 Proseminar in Anthropology, 3 cr. Advanced study and analysis of selected topics in subfields of anthropology, such as: anthropology of food, museology and art and anthropology. Consult the Schedule of Classes for specific topics.

ANTH-351 Independent Study in Anthropology: Varies, 3 cr. Independent study of methods, concepts, and special topics in anthropology, archaeology, ethnology, physical anthropology, etc. *Prereq.:* ANTH-212 or consent of instructor.

ANTH-352 Archaeological Methods, 3 cr. Study of the techniques of recovery, analysis and interpretation of archaeological data; demonstration of some of the equipment employed in archaeological field work. Theoretical value and limitations of the data; some of the contributions of science to their interpretation. *Prereq.:* ANTH-212 or ANTH-215 or consent of instructor.

ANTH-353 Independent Study in Anthropology, 1 cr. (See ANTH-351 for description.)

ANTH-354 Independent Study in Anthropology, 2 cr. (See ANTH-351 for description.)

ANTH-355 History of Anthropological Theory, 3 cr. Discussion of major theoretical approaches to the understanding of human behavior including a discussion of the cultural context of anthropologists. *Prereq.:* ANTH-212 and senior standing or consent of instructor.

ANTH-362 Senior Seminar in Anthropology I, 3 cr. Advanced instruction in three major fields of anthropology emphasizing bases of knowledge, conducting research, critical evaluation of scholarship, major controversies of the science, and comprehensive evaluation of students' general anthropological cognizance. Optional honors thesis component. Must be taken by majors in senior year. Both ANTH-362 and ANTH-363 are required and must be taken in succession.

ANTH-363 Senior Seminar in Anthropology II, 3 cr. (See ANTH-362 for description.)

ART

Mark McKernin, M.F.A., Professor, Chair
 Donald Bulucos, M.F.A., Professor
 Merrie Cutts, M.F.A., Assistant Professor
 Dennis Mitchell, M.F.A., Professor
 Russell Roller, M.F.A., Professor
 William Sieger, Ph.D., Assistant Professor
 Santiago Vaca, M.F.A., Assistant Professor
 Jane Weintraub, M.F.A., Professor
 Shencheng Xu, Ph.D., Assistant Professor

The fundamental objective of the Art Department programs is to teach the visual arts in ways that will provide and promote a knowledge and critical understanding of spatial and tangible art forms. In addition, the Department teaches a variety of skills through hands-on experience so students will be equipped to express concepts in visual media and to pursue professional careers in the graphic arts or in teaching.

The Department offers two sequences leading to the degree of Bachelor of Arts. In addition, the Department offers separate minors in Art for Elementary Education majors and for Liberal Arts students. Both the major and minor Liberal Arts programs allow students to select areas of emphasis in studio or art history in consultation with departmental advisors. Students wishing to be certified for teaching art in secondary schools must select the emphasis in studio art. The Department of Art may require studio art majors to lend for exhibit one or more pieces of their art work from each studio course and, before graduation, to donate at least one piece chosen by a faculty committee to the University's permanent art collection.

The special requirements of studio courses demand regular attendance. More than three absences may result in a failing grade.

Students wishing to declare an Art major or minor should contact the Art Department at extension 4910 and schedule an appointment with an Art advisor. Transfer students should bring an evaluation of transfer credits to their first advisement session.

Transfer students are required to consult the departmental undergraduate advisor regarding an interview and/or portfolio review prior to registering for art courses at Northeastern.

The Art Department utilizes course titles and course descriptions taken from the catalog of the transfer school to assist us in making decisions on the appropriateness of transfer credit.

General Education credit is allowed when courses provide a survey of introductory art material with breadth and appropriate concepts consistent with NEIU Art General Education courses.

The Department of Art offers advanced courses for undergraduate students, in-service teachers and post-graduate students. Prerequisites are strictly enforced.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

The following required courses are offered on a rotational basis. Students need to plan their programs accordingly.

ART-106 Introduction to Art History I (Fall and Spring)
 ART-107 Introduction to Art History II (Fall and Spring)
 ART-120 Drawing I (Fall and Spring)
 ART-130 Two-Dimensional Design (Fall and Spring)
 ART-140 Three-Dimensional Design (Fall and Spring)
 ART-201 Contemporary Art (Fall)
 ART-220 Drawing II (Fall)
 ART-234 Color (Fall)
 ART-392 Senior Project (Spring)
 C&I-SCED-303A Contemporary Art Education in the Secondary School (Fall)
 C&I-SCED-305A Secondary Student Teaching and Seminar in Art (Spring)

UNDERGRADUATE PROGRAMS

Major in Art for the Bachelor of Arts Degree

All undergraduate students majoring in art must complete the following 15 hour core requirement:

ART-106	Introduction to Art History I	3 cr.
ART-107	Introduction to Art History II	3 cr.
ART-120	Drawing I	3 cr.
ART-130	Two-Dimensional Design	3 cr.
ART-140	Three-Dimensional Design	3 cr.
	Total	15 cr.

Emphasis in Studio Art

Students who select an emphasis in Studio Art complete the following courses:

ART-201	Contemporary Art	3 cr.
ART-220	Drawing II	3 cr.
ART-234	Color	3 cr.
ART-392	Senior Project	3 cr.
	300-level art history courses	6 cr.
	Three of the following:	9 cr.
ART-230	Introduction to Painting	3 cr.
ART-240	Introduction to Sculpture	3 cr.
ART-250	Introduction to Printmaking	3 cr.
ART-261	Introduction to Photography	3 cr.
ART-270	Introduction to Ceramics	3 cr.
ART-273	Introduction to Studio in Metals/Jewelry	3 cr.
ART-281	Introduction to Commercial Art	3 cr.
ART-282	Introduction to Computer Graphics	3 cr.

	Three courses in an area of concentration selected in consultation with an advisor	9 cr.
	One art elective	3 cr.
	Core Courses	15 cr.
	Total	54 cr.

Students wishing to be certified for teaching art in secondary schools should consult the secondary education section of this catalog.

All Secondary Education students in Art must complete course work in the following courses in addition to requirements listed for studio majors:

ART-230	Introduction to Painting
ART-240	Introduction to Sculpture
ART-250	Introduction to Printmaking
ART-270	Introduction to Ceramics

Student teaching for Art students is only offered during the Spring term. Students must complete C&I-SCED-303A during the Fall term before student teaching.

Emphasis in Art History

Students who select an emphasis in Art History complete the following courses:

ART-202	Methods of Research in Art History	3 cr.
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Six courses at the 300-level in Art History,
selected in consultation with an advisor 18 cr.

Core Courses	15 cr.
Total	36 cr.

In addition, there must be a demonstration of reading competence in a foreign language approved by the advisor or 6 credit hours of a foreign language.

Minor in Art (18-21 cr. hrs.)

Emphasis in Studio Art

Students who select an emphasis in Studio Art complete the following courses:

ART-106	Introduction to Art History I	3 cr.
ART-107	Introduction to Art History II	3 cr.
ART-120	Drawing I	3 cr.
ART-130	Two-Dimensional Design	3 cr.
ART-140	Three-Dimensional Design	3 cr.

Two of the following: 6 cr.

ART-230	Introduction to Painting	3 cr.
ART-240	Introduction to Sculpture	3 cr.
ART-250	Introduction to Printmaking	3 cr.
ART-261	Introduction to Photography	3 cr.
ART-270	Introduction to Ceramics	3 cr.
ART-273	Introduction to Studio in Metals/Jewelry	3 cr.
ART-282	Computer Graphics	3 cr.

Total 21 cr.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Emphasis in Art History

Students who select an emphasis in Art History complete the following courses:

ART-106	Introduction to Art History I	3 cr.
ART-107	Introduction to Art History II	3 cr.

Four courses at the 300-level in Art History,
selected in consultation with an advisor 12 cr.
Total 18 cr.

COURSE OFFERINGS

ART-101 Art in Society, 3 cr. Study of the function of art in a variety of cultures with specific reference to American culture. Application of insights gained through inter-cultural analysis of contemporary issues. Slide lectures, films, gallery, and museum visits.

ART-106 Introduction to Art History I, 3 cr. Meanings and functions of the visual arts in Western history from c3000 B.C.E. through the 17th century C.E. Basic terminology through the analysis of forms, styles and techniques; value judgement, taste and appreciation of art forms through an understanding of their historical context. Slide lectures and museum assignments.

ART-107 Introduction to Art History II, 3 cr. Meanings and functions of the visual arts in Western history from c1700 C.E. through the mid-twentieth century. Basic terminology through the analysis of forms, style and techniques; regional, chronological and individual developments in their historical context. Slide lectures and museum assignments.

ART-120 Drawing I, 3 cr. Basic drawing, stressing individual perceptual growth and the importance of physical and psychological factors in structuring visual experiences; emphasis on design and perception; discussion of systems of perceptual interpretation and structure, concepts of abstraction, and problems of evaluation.

ART-130 Two-Dimensional Design, 3 cr. Systematic exploration of order in two-dimensional space and study of the interaction of method and technique in organizing form on a two-dimensional surface.

ART-140 Three-Dimensional Design, 3 cr. Studio experience and lecture exploring fundamental 3-D design theory and concepts through the solution of studio problems utilizing 3-D materials and techniques.

ART-170A Studio Experiences: Photography, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-170B Studio Experiences: Painting, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-170C Studio Experiences: Sculpture, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-170D Studio Experiences: Metalworking and Jewelry, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-170E Studio Experiences: Printmaking, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-170F Studio Experiences, Ceramics, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-170G Studio Experiences: Drawing, 3 cr. Problem solving approach in studio experiences with lecture and discussion. This course does not count towards major or minor requirements in Art.

ART-201 Contemporary Art, 3 cr. Study of painting and sculpture of the last ten years; gallery and museum visits; readings in contemporary art publications; slide lectures.

ART-202 Methods of Research in Art History, 3 cr. Introduction to art historical research methodology, including the use of library resources, indices, bibliographies, and primary source material. Writing skills, style, and methods of citation will be emphasized.

ART-220 Drawing II, 3 cr. Interpretive drawing experiences, concentration on individual growth and perceptual acuity, principally studying the human form through live models, other supportive materials and a variety of media. *Prereq.: ART-120.*

ART-230 Introduction to Painting, 3 cr. Studio examination of the technical development of visual communication by means of design, symbol, and image; exploration of painting media. *Prereq.: ART-130 or consent of instructor.*

ART-231 Painting Techniques and Processes I: General Aqueous Media, 3 cr. Studio problems emphasizing individual exploration of aqueous media such as transparent watercolor, gouache, casein, tempera. *Prereq.: ART-230 or consent of instructor.*

ART-232 Painting Techniques and Processes II: General Non-Aqueous Media, 3 cr. Studio problems emphasizing exploration of non-aqueous media such as oil painting, encaustic, lacquers. *Prereq.: ART-230 or consent of instructor.*

ART-233 Painting Techniques and Processes III: Contemporary Media, 3 cr. Studio problems emphasizing individual exploration of contemporary media such as acrylic polymer, air brush, oil compatible acrylic, reflective surfaces, transfer processes. *Prereq.: ART-230 or consent of instructor.*

ART-234 Color, 3 cr. Investigation of color phenomena through lecture and studio problems. *Prereq.: ART-130.*

ART-240 Introduction to Sculpture, 3 cr. Traditional and contemporary sculpture concepts; introductory studio experience in modeling and casting, carving, and construction techniques. *Prereq.: ART-140 or consent of instructor.*

ART-241 Sculpture I: Figure Modeling and Casting, 3 cr. Studio problems with a focus on the human figure; exploration of casting materials and techniques by means of clay and plaster modelling; mold-making; and plastics casting. *Prereq.: ART-240 or consent of instructor.*

ART-242 Sculpture II: Carving, 3 cr. Studio problems involving traditional and contemporary carving techniques using wood and stone. *Prereq.: ART-240 or consent of instructor.*

ART-243 Sculpture III: Wood and Metal Shop, 3 cr. Studio problems involving areas of the students' choice: woodworking; metal welding and brazing; plastic fabrication; using hand and power tools. *Prereq.: ART-240 or consent of instructor.*

ART-250 Introduction to Printmaking, 3 cr. Introduction to major printmaking techniques including studio projects in intaglio, relief, stencil, and planographic processes. *Prereq.: ART-120 and ART-130 or consent of instructor.*

ART-261 Introduction to Photography, 3 cr. Lecture and laboratory experiments in basic photographic processes, camera techniques, and printing with an emphasis on photography as a creative medium.

ART-262 Photography II, 3 cr. Continuation and expansion of ART-261. Concentration on visual concepts and technical competence in black and white photography. Students develop a personal body of photographic prints, professional in quality and concept. *Prereq.: ART-261 or a portfolio of photographic work that demonstrates equivalent proficiency.*

ART-270 Introduction to Ceramics, 3 cr. History of ceramics; sequential studio problems in hand building methods, surface treatment, and glazing of ceramics.

ART-271 Ceramics II, 3 cr. Introduction to the chemistry of clay bodies and glazes; sequential studio problems in using the wheel in building with clay. *Prereq.: ART-270.*

ART-273 Introduction to Studio in Metals/Jewelry, 3 cr. Experience in the fundamental processes of working with small metals and jewelry design including soldering, cutting, forming, and finishing techniques.

ART-281 Commercial Art, 3 cr. Introduction to techniques and concepts of visual communications/commercial art; historical and contemporary social aspects; typography, layout, display, image-making; lectures, seminars, and workshop. *Prereq.: ART-120 and ART-130 or consent of instructor.*

ART-282 Introduction to Computer Graphics, 3 cr. Introductory experience of computer graphic applications and an overview of the field. Computer hardware, software and peripheral devices will be utilized in the creation and manipulation of images and animation *Prereq.: ART-120 and ART-130.*

ART-283 Rendering Techniques in Advertising Art, 3 cr. Techniques and skills needed for the execution of advertising design problems, including an understanding of the materials appropriate to those techniques. Discussion of the principles and terminology used in production. *Prereq.: ART-130.*

ART-284 Keyline/Pasteup, 3 cr. Basic course in the techniques needed for the production of camera-ready materials ranging from two-dimensional designs to packaging.

ART-303 Images of Woman in Art, 3 cr. Iconographical study of the images of woman in the visual arts. Exploration into stereotypes, archetypes, and prototypes in the context of historical and societal conditions, using primary literary sources and archaeological evidence to support interpretive hypotheses.

ART-304 Studies in Tribal Arts, 3 cr. Selected offerings on special topics in tribal arts. Consult the Schedule of Classes for specific topics.

ART-310 Early Christian and Byzantine Art, 3 cr. Study of the arts from the early Christian period to the end of the Byzantine Empire in the east: stylistic and iconographic development of architecture, painting, mosaics, manuscript illustration, and minor arts in the context of contemporary politics and religion.

ART-311 Medieval Arts of the West, 3 cr. A study of art from the Merovingian period to the end of high Gothic: Stylistic and iconographic development of architecture, painting, sculpture, manuscript illustration, and minor arts in the context of political and religious controversies.

ART-312 Painting of the Italian Renaissance, 3 cr. Painting in Italy from 1200-1600; iconography and aesthetics, social and technical aspects, development of style with brief attention to the most important examples of sculpture and architecture insofar as they aid in an understanding of the development of painting; slide lectures, museum visits.

ART-313 Painting of the United States of America, 3 cr. Survey of American painting from the Colonial period through mid-twentieth century; social and technical aspects, development of various styles; slide lectures, museum visits.

ART-316 Seventeenth and Eighteenth Century Art, 3 cr. Painting, sculpture and architecture in Europe in the seventeenth and early eighteenth centuries, stressing historical, stylistic and iconographic developments in the art of the period with emphasis on leading Baroque artists in Italy, Spain, Flanders, Holland, France and Germany.

ART-317 Sculpture and Architecture of the United States, 3 cr. Sculpture and architecture of the United States from the Colonial period through mid-twentieth century. Social and technical aspects, development of various styles; slide lectures, museum visits.

ART-318 Nineteenth Century European Art, 3 cr. Survey of European painting and sculpture from the late 18th century through the early decades of the 20th century, with emphasis upon major artistic developments in the context of pertinent historical and social issues and the general cultural milieu.

ART-319 Twentieth Century European Art, 3 cr. European painting and sculpture from post-impressionism at the close of the nineteenth century through the various modernist movements of the twentieth century with emphasis on major theories and developments in art in the context of pertinent historical, social and cultural events and concerns of the period.

ART-320 Studio in Advanced Drawing, 3 cr. Interpretive drawing experiences directed to individual growth and personal style. Use of live models, other supportive materials, and a variety of media. *Prereq.:* ART-220 or consent of instructor.

ART-330 Studio in Advanced Painting, 3 cr. Studio problems emphasizing personal development and expression in an area of the student's choice. *Prereq.:* ART-231, ART-232, or ART-233 or consent of instructor.

ART-340 Studio in Advanced Sculpture, 3 cr. Studio problems emphasizing personal development and expression in an area of the student's choice. *Prereq.:* ART-242, or ART-243 or consent of instructor.

ART-350 Studio in Advanced Printmaking, 3 cr. Studio problems in design and expression through one or more of the graphic processes; advanced work in the processes of relief stencil, intaglio, and/or planographic printing. *Prereq.:* ART-251 or ART-252 or ART-253 or consent of instructor.

ART-360 Contemporary Art Education in Intermediate Grades, 3 cr. Inquiry and understanding of the many problems of communication in teaching art in the intermediate grades. *Prereq.:* ART-130 or equivalent and consent of instructor.

ART-362 Studio in Advanced Photography, 3 cr. Concentration on experimental and technical problems. Discussion of expressional and functional aspects of photography. Altered cameras, film formats, chemicals, and papers. Final presentation and individual review of a portfolio of works demonstrating aesthetic and technical competence in black and white photography. *Prereq.:* ART-262 or a portfolio of works demonstrating comparable proficiency.

ART-370 Studio in Advanced Ceramics, 3 cr. Investigation of various advanced ceramic processes, techniques, and critical analysis of historical and contemporary work. *Prereq.:* ART-271 or consent of instructor.

ART-373 Studio in Metals, 3 cr. Intermediate and advanced processes used in metalsmithing and jewelry such as casting, stone setting, forging, forming and finishing. *Prereq.:* ART-273 or consent of instructor.

ART-381 Studio in Graphic Design, 3 cr. Principles involved in the thought process, creation and production of a design project. Lecture and discussion. Suggested readings supplement the class experience. *Prereq.:* ART-281 and ART-284.

ART-382 Advanced Computer Graphics, 3 cr. Principles related to the creation of imagery in various areas of computer graphics will be reviewed. Topics of study include advanced image creation and manipulation, 2-D and 3-D animation, 3-D modeling and contemporary uses of computer graphics in technology. *Prereq.:* ART-282.

ART-383 Studio in Illustration, 3 cr. Principles involved in the thought process, creation and production of an image-making problem. Lecture and discussion. Suggested readings will supplement the class experience. *Prereq.:* ART-281.

ART-384 Internship in Commercial Art and Design, 3 cr. On-site experience in an industrial shop or commercial agency observing and participating in the everyday activities and projects. *Prereq.:* ART-281, ART-284 and junior standing.

ART-390 Independent Study in Visual Art, 3 cr. Individual investigation into a topic of the student's choice. *Prereq.:* senior standing or consent of advisor.

ART-392 Senior Project, 3 cr. Portfolio preparation in a chosen field; exhibition of selected works. *Prereq.:* senior standing.

ASIAN STUDIES

Andrew Eisenberg, Ph.D., Associate Professor of History,
Program Coordinator

UNDERGRADUATE PROGRAM

Minor in Asian Studies (18 cr. hrs.)

- 1 Courses selected to complete this minor
 - a. must be chosen from two or more academic disciplines,
 - b. must include at least 12 hours in 300-level courses,
 - c. must cover material about more than one Asian country, and
 - d. cannot be counted toward meeting requirements for any other major or minor.
2. The student must secure the approval of the Program Coordinator for the list of courses selected to complete the minor. This approval should be requested well before the completion of the courses themselves.

BIOLOGY

Simon L. Chung, Ph.D., Associate Professor, Chair
George Diepstra, Ph.D., Associate Professor
John M. Kasmer, Ph.D., Associate Professor
Jules M. Lerner, Ph.D., Professor
Shubhangee Mungre, Ph.D., Assistant Professor
Joel Olfelt, Ph.D., Assistant Professor
Melanie A. Riedinger-Whitmore, Ph.D., Associate Professor
John N. Thomas, Ph.D., Assistant Professor

The Department of Biology offers courses of study leading to the degrees of Bachelor of Science and Master of Science. These broadly based undergraduate and graduate programs are designed to prepare students for: (1) advanced studies in biology, biomedical sciences, environmental biology, ecology and applied ecology; (2) professional trainings in medicine, dentistry, optometry, chiropractic, pharmacy, veterinary medicine and other health professions; (3) teaching of biology in secondary schools; (4) career opportunities in research, biomedical sciences, agriculture, industry, government, and academic institutions.

The department currently offers an undergraduate major, a minor in biology, and a graduate program leading to the Master of Science degree.

Students interested in a major in biology are strongly urged to declare a major early and seek advisement from a departmental advisor.

All Biology majors should seek advisement prior to each registration. When registering, the following general guidelines for course selection should be observed:

A maximum of 18 credit hours of biology courses will be accepted towards the undergraduate major in Biology in transfer credits. For Biology Minors, a maximum of 9 credit hours of transfer credits will be allowed.

A major in Biology is allowed to waive a total of 12 credit hours in the Natural Sciences distribution area of the General Education Program.

BIOL-100 Introduction to Biology and BIOL-104 The Changing Natural Environment may not be used to satisfy the major or minor requirements in biology.

Biology students should also be aware of the University requirements for the Bachelor's degree. Effective Fall 1993, all entering students must complete a minimum of 42 semester hours at the upper division level.

Requirements for Secondary Education Certification

The Major in Biology for the Bachelor of Science Degree (general biology sequence) should be completed in order to meet the requirements for secondary teacher certification. Students seeking certification to teach biology in secondary schools may elect to complete the optional Environmental Emphasis or the General Biology Emphasis. In completing the Major in Biology, students seeking certification must earn 8 semester hours in botany including 5 semester hours in laboratory work, 8 semester hours in zoology including 5 semester hours in laboratory work, and 8 semester hours in physiology including 5 semester hours in laboratory work. In addition, they should consult the Secondary Education section of this catalog. Dr. Joel Olfelt is the advisor for Biology/Secondary Education students.

UNDERGRADUATE PROGRAMS

Major in Biology for the Bachelor of Science Degree General Biology Emphasis

This sequence provides an organized yet flexible system of courses which effectively meets the demands of students seeking a broadly based undergraduate program in biology. It also serves students wishing to be certified for teaching biology in secondary schools.

Required Biology Courses:

BIOL-102 Biology of Organisms	3 cr.
BIOL-103 Biology of Populations	3 cr.
BIOL-301 Cell Biology	4 cr.
BIOL-311 Genetics	3 cr.
BIOL-316 Biochemistry	4 cr.
BIOL-380 General Ecology	4 cr.
BIOL-BOT-318 General Plant Morphology or BIOL-ZOOL-315 Invertebrate Zoology or	
BIOL-ZOOL-326 Animal Kingdom	3 cr.
BIOL-BOT-315 Plant Physiology or BIOL-ZOOL-312 Vertebrate Physiology	3-4 cr.
Electives	12 cr.
	Total 39-40 cr.

Required 300-level courses must include one botanical course and one zoological course.

Electives must be at the 200- or 300-level. At least 2 electives must have a laboratory component.

Required Cognate Courses:

CHEM-211 General Chemistry I	5 cr.
CHEM-231 Organic Chemistry I *	4 cr.
PHYS-201 College Physics I and PHYS-203 Physics I Laboratory	3,1 cr
PHYS-202 College Physics II and PHYS-204 Physics II Laboratory	3,1 cr.
MATH-106 Pre-Calculus Mathematics for Non-Mathematics Majors	4 cr.
Choose two from the following:	6 cr.
Chemistry Elective (CHEM-212 or higher)	
Earth Science Elective (ESC1-206 or higher)	
Mathematics Elective (MATH-105 or higher)	
Physics Elective (PHYS-215 or higher)	
Total	27 cr.

*Students should take CHEM-212 also as it is a prerequisite for CHEM-231.

Additional courses may be recommended by the student's advisor in relation to the student's goals. Students planning to pursue graduate studies are strongly urged to take additional courses in chemistry, physics, mathematics, and philosophy. For graduate study preparation, one year each of general chemistry, organic chemistry, calculus, and a course in statistics are highly recommended.

Pre-Professional Emphasis

This program is designed for students planning to pursue professional training in medicine, dentistry, pharmacy, optometry, chiropractic, osteopathic medicine, podiatric medicine, or veterinary medicine. The program is also for students interested in other health professions, such as physical therapy, occupational therapy, and physician assistants. The physician professions generally require a minimum of two semesters each of general biology, general chemistry, organic chemistry, and general physics. In some professions, additional courses in calculus, statistics, or certain advanced biology courses may be required. The student should consult the professional schools s/he intends to apply for specific information and requirements. Students are also encouraged to carefully select courses in the humanities and behavioral sciences beyond the General Education requirements.

It is imperative that students consult with Dr. John Thomas, pre-professional advisor, to chart a detailed course of study.

Required Biology Courses:

BIOL-102 Biology of Organisms	3 cr.
BIOL-103 Biology of Populations	3 cr.
BIOL-301 Cell Biology	4 cr.
BIOL-311 Genetics	3 cr.
BIOL-316 Biochemistry	4 cr.
BIOL-380 General Ecology	4 cr.
BIOL-BOT-318 General Plant Morphology or BIOL-ZOOL-315 Invertebrate Zoology or BIOL-ZOOL-326 Animal Kingdom*	3 cr.

BIOL-BOT-315 Plant Physiology or BIOL-ZOOL-312 Vertebrate Physiology**	3-4 cr.
Electives***	12 cr.
Total	39-40 cr.

* BIOL-ZOOL-326 Animal Kingdom is recommended.

** BIOL-ZOOL-312 Vertebrate Physiology, rather than BIOL-BOT-315 Plant Physiology is recommended.

***For the twelve credit hours of biology electives, students should choose from courses in genetics, anatomy, physiology, microbiology, immunology, and courses emphasizing molecular and quantitative aspects of biology.

Required Cognate Courses:

CHEM-211 General Chemistry I	5 cr.
CHEM-231 Organic Chemistry I*	4 cr.
PHYS-201 College Physics I	3 cr.
PHYS-202 College Physics II	3 cr.
PHYS-203 Physics I Laboratory	1 cr.
PHYS-204 Physics II Laboratory	1 cr.
MATH-106 Pre-Calculus Mathematics for Non-Mathematics Majors	4 cr.
Choose from the following:	6 cr.
Chemistry Elective (CHEM-212 or higher)	
Earth Science Elective (ESC1-206 or higher)	
Mathematics Elective (MATH-105 or higher)	
Physics Elective (PHYS-215 or higher)	
Total	27 cr.

*Students should take CHEM-212 also as it is a prerequisite for CHEM-231.

Additional courses may be recommended by the student's advisor in relation to the student's goals. Students planning to pursue professional programs are strongly urged to take additional courses in chemistry, physics, and mathematics. For professional school admissions, one year each of general chemistry, organic chemistry, and general physics are usually required. Calculus and a course in statistics are highly recommended.

Ecology/Environmental Emphasis

This sequence is designed for students interested in careers in ecology and environmental biology by emphasizing both laboratory and field work. It expands the general biology sequence to include additional field-oriented courses. Required internships provide students with field experiences with zoos, museums, park districts, forest preserve districts, academic institutions and government agencies. Dr. John Kasmer is the advisor for the Ecology/Environmental emphasis track.

Required Biology Courses:

BIOL-102 Biology of Organisms	3 cr.
BIOL-103 Biology of Populations	3 cr.
BIOL-301 Cell Biology	4 cr.
BIOL-311 Genetics or	
BIOL-312 Evolution	3 cr.
BIOL-386 Ecological Methods	4 cr.
BIOL-BOT-318 General Plant Morphology	3 cr.
BIOL-BOT-314 Local Flora or	
BIOL-ZOOL-327 Local Fauna	3 cr.
BIOL-BOT-315 Plant Physiology or	
BIOL-ZOOL-312 Vertebrate Physiology	4 cr.
BIOL-380 General Ecology	4 cr.
BIOL-ZOOL-326 Animal Kingdom or	
BIOL-ZOOL-315 Invertebrate Zoology	3 cr.

Select two courses: 6 cr.

BIOL-318 General Microbiology	3 cr.
BIOL-326 Biological Geography	3 cr.
BIOL-328 Aquatic Biology	3 cr.
BIOL-BOT-311 General Mycology	3 cr.
BIOL-BOT-316 Phycology	3 cr.
BIOL-BOT-321 Plant Ecology	3 cr.
BIOL-ZOOL-313 Entomology	3 cr.
BIOL-ZOOL-314 Ornithology	3 cr.
BIOL-ZOOL-316 Animal Behavior	3 cr.
BIOL-ZOOL-319 Protozoology	3 cr.
BIOL-ZOOL-325 Animal Ecology	3 cr.

Required Internships:

May be taken concurrently. (Senior standing only.)

BIOL-332 Internship in Environmental Biology I	3 cr.
BIOL-333 Internship in Environmental Biology II	3 cr.

Total 42-43 cr.

Required Cognate Courses:

CHEM-211 General Chemistry I	5 cr.
CHEM-231 Organic Chemistry I*	4 cr.
ESCI-211 Physical Geology	4 cr.
MATH-106 Pre-Calculus Mathematics	4 cr.
PHYS-201 College Physics I	3 cr.
PHYS-202 College Physics II	3 cr.
PHYS-203 Physics I Laboratory	1 cr.
PHYS-204 Physics II Laboratory	1 cr.

Total 25 cr.

Recommended Courses:

CHEM-212 General Chemistry II
ESCI-315 Glacial and Quaternary Geology
ESCI-323 Field Geology
ESCI-329 Soil Science
ESCI-335 Meteorology I
G&ES-205 Physical Geography: Climate, Vegetation and Soils
G&ES-206 Physical Geography: Landforms

G&ES-322 Aerial Photographic Interpretation in Geography
G&ES-378 Physical Climatology
MATH-275 Statistics

*Students should take CHEM-212 also as it is a prerequisite for CHEM-231.

Minor in Biology (18 cr. hrs.)

A maximum of 9 cr. towards the minor in Biology will be accepted in transfer credits. Dr. Joel Olfelt is the advisor for Biology minors.

Requirements for the biology minor are:

Select two of the following: 6 cr.

BIOL-102 Biology of Organisms	3 cr.
BIOL-103 Biology of Populations	3 cr.
BIOL-301 Cell Biology	4 cr.
Biology electives	11-12 cr.

Select 4 courses in consultation with the biology advisor.

3 of the 4 courses must have a laboratory component.

If BIOL-301 was not chosen as one of the two required basic biology courses, it may be chosen as one of the 4 elective courses.

Total 18 cr.

NOTE: BIOL-100 and BIOL-104 do not fulfill requirements for the minor.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

GRADUATE PROGRAM**Master of Science in Biology**

The graduate program is designed to serve those interested in or needing advanced biological training to fulfill their career goals in applied or basic biological research and/or teaching. The program provides a sound basis for further graduate or professional studies. Laboratory work and introduction to research methodology are integral to the program. Areas of study include genetics, molecular biology, morphology/taxonomy, physiology, and ecology. Dr. Melanie Riedinger-Whitmore is the Graduate Student Advisor.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College. In addition, they must:

1. Meet specific biology area prerequisites: a minimum of 15 undergraduate credit hours representing course work (lecture and laboratory/field work) in genetics, molecular biology, morphology/taxonomy, physiology, and ecology. Students must have at least one botanical and one zoological course.

2. Have completed a minimum of 26 credit hours as follows
 - a. at least eight credit hours of laboratory chemistry, including one course in organic chemistry;
 - b. at least four credit hours of laboratory physics;
 - c. at least six credit hours of mathematics including pre-calculus mathematics or college algebra, and statistics.
 - d. The balance of credits may have been earned in any combination of chemistry, physics, earth science and mathematics.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400-level, except for a limited number of 300-level courses specifically approved for graduate degree credits. Biology graduate students may apply up to three of these 300-level courses, to a maximum of ten credit hours, to fulfill program requirements. Consult with Dr. Melanie Riedinger for a list of applicable 300-level courses.

Program Options

Graduate students in biology may choose from one of three options in completing their degree. The option is chosen after the student has applied for and been granted candidacy (after the completion of 12 credits hours in the program).

Option I: subject to the approval of the Department, the student may complete a research thesis.

Option II: complete a library thesis, or

Option III: select the non-thesis program.

Option I is recommended for individuals who desire a research-oriented program. The research experience is particularly suitable for those students who plan to do further graduate study and for those who are working in applied fields in biology. The Library Thesis and Non-Thesis Options are recommended for those students who desire a more flexible approach to graduate training in biology.

Course Work (33-36 credit hours)

1. Students in all options (I, II, III) must complete:
 - a. BIOL 481: Biological Literature, 3 cr.
 - b. a minimum of five courses from one of the three concentrations listed below (additional credits may be taken in any or all areas):
 - Molecular/Cellular Area
 - Morphological/Physiological Area
 - Ecological/Environmental Area
2. Students in Option I must earn a minimum total of 33 credit hours, including BIOL 499 Research Thesis, 6 cr. and BIOL 481 (see above), and present an oral defense of their thesis.
3. Students in Options II and III must earn a minimum total of 36 credit hours, including BIOL 481 (see above), BIOL 403 Seminars in Biology, 1 cr., and in Option II only, BIOL 497 Thesis Seminar, 3 cr. Students must pass a graduate comprehensive exam to complete the program.

The graduate program is to be planned with the guidance of the graduate advisor in biology.

A maximum of nine credit hours of transfer credit may be accepted with the approval of the Department and the Graduate College.

COURSE OFFERINGS

BIOL-100 Introduction to Biology, 3 cr. The problems of living things with emphasis on human physiology and the propagation of life. Covers major biological concepts and principles. Lecture and laboratory. (Does not fulfill major or minor requirements in biology.)

BIOL-102 Biology of Organisms, 3 cr. Problems of life at the organism level. Support and movement, nutrition and energy relations, transport of materials, waste disposal, coordination and regulation, reproduction, and growth and development are considered in relation to both plants and animals. Lecture and laboratory.

BIOL-103 Biology of Populations, 3 cr. Problems of life at the population level. Hereditary basis of variability and homogeneity; factors influencing the gene pool; concept of species; diversification of life in time; populations in their environment. Lecture and laboratory.

BIOL-104 The Changing Natural Environment, 3 cr. Attitudes towards the natural environment. Exploitation of the natural plant and animal communities and the effects of overpopulation and increasing pollution of the environment on the biological world. Lecture only. (Does not fulfill major or minor requirements in biology.)

BIOL-301 Cell Biology, 4 cr. Basic molecular and cellular processes. Structures of biomolecules. Energetics: enzymes, photosynthesis, respiration. Genetic *control*: chromatin, *DNA* replication, RNA transcription and regulation, protein synthesis. Cell functions, including: protein secretion; cell membrane structure, transport and surface interactions; cell cycle, cell motility; cell growth, cell origins. Lecture and laboratory.

Prereq.: CHEM-211, BIOL- 102, and BIOL- 103.

BIOL 306: Institute in Biology I, 1cr. An in-depth study of an area of biology. Course may be repeated as long as the title is different. Consult the schedule of classes for specific topics. *Prereq:* six credit hours in general biology, consent of instructor.

BIOL-307 Institute in Biology II, 2 cr. (See BIOL-306 for description.) BIOL-308 Institute in Biology III, 3 cr. (See BIOL-306 for description.)

BIOL-311 Genetics, 3 cr. Introduction to traditional Mendelian concepts, and to contemporary concepts of heredity and their cytological mechanisms. Lecture and Laboratory. *Prereq.:* six credit hours in general biology.

BIOL-312 Evolution, 3 cr. A reading-lecture-discussion course on the facts, theories, and principles of organic evolution. *Prereq.:* six credit hours in general biology.

BIOL-316 Biochemistry, 4 cr. Chemistry and metabolism of carbohydrates, proteins, nucleic acids, lipids, *vitamins*, and minerals associated with animal and plant life. Lecture and laboratory. *Prereq.:* BIOL-301 and CHEM-231; CHEM-232 recommended.

BIOL-318 General Microbiology, 3 cr. Study of the taxonomy and identification, ultrastructure and function, nutrition and growth, physiology, metabolism, molecular genetics, host microbial interactions, immunobiology, epidemiology, ecology, and biotechnology of microorganisms and viruses. Lecture and laboratory. *Prereq.:* BIOL-301 and six credit hours in general biology.

BIOL-319, Radiation Biology, 4 cr. Somatic and genetic effects of ionizing radiation, use of isotopes as tracers in experiments involving metabolic activities. Lecture and laboratory. *Prereq.:* six credit hours in chemistry; six credit hours in physics; one course in biochemistry or one 300-level physiology course.

BIOL-322 Pathogenic Microbiology, 3 cr. Systematic study of the distinctive cellular and molecular properties of pathogenic microorganisms including bacteria, fungi, viruses and protozoans; mechanisms of infection, pathogenesis, host defenses, immunology, epidemiology, diagnosis, treatment and control of these microorganisms. Lecture only. *Prereq.:* BIOL-318 or consent of instructor.

BIOL-323 Physical Methods in Biology, 3 cr. Principles and practice of physical instrumentation and techniques in the manipulation of biological materials; extraction of biological data and regulation of physical variables; spectrophotometry, chromatography, and electrophoresis, radioactivity detection techniques, cell and tissue fractionation methods. Lecture and laboratory. *Prereq.:* six credit hours in biology including BIOL-201; one year of chemistry and one year of physics.

BIOL-325 History of Science, 3 cr. Development of the scientific method and knowledge of the natural sciences from ancient civilization to the present. Lecture only. *Prereq.:* six credits in the physical sciences and s/x credits in b/o/logical sciences.

BIOL-326 Biological Geography, 3 cr. Geographic distribution of living organisms and the principles underlying this distribution. Lecture only. *Prereq.:* six credit hours in general biology.

BIOL-327 Immunology, 3 cr. The biological aspects of immunity and the immune response to "not-self" agents. Lecture and laboratory. *Prereq.:* BIOL-ZOOL-312.

BIOL-328 Aquatic Biology, 3 cr. Biological study of selected aquatic ecosystems including biological, chemical and physical parameters of freshwater communities. Fieldwork emphasizes practical experience in specimen collection and identification; laboratory work concentrates on water analysis and includes an introduction to organism toxicology caused by aquatic pollutants. Lecture and laboratory. *Prereq.:* six credit hours in general biology.

BIOL-332 Internship in Environmental Biology I, 3 cr. Field experience at an off-campus site guided by a faculty advisor and a site supervisor. A minimum of 140 hours at the site is required. The course may be taken after completion of an acceptable course background usually in the senior year. Sites, including zoos, area park districts and nature preserves, laboratories, depending on availability. *Prereq.:* consent of instructor; may be taken concurrently with BIOL-333.

BIOL-333 Internship in Environmental Biology II, 3 cr. See BIOL-332 for description. *Prereq.:* consent of instructor; may be taken concurrently with BIOL-332.

BIOL-335 Introduction to Biotechnology, 3 cr. A survey of the history, theories, and major concepts in the practical applications of the principles of genetics, microbiology, biochemistry, and molecular biology. Medical, agricultural, industrial, and environmental applications of biotechnology and their implications will be emphasized. Lecture only. *Prereq.:* BIOL-311, BIOL-316, BIOL-318 or consent of instructor.

BIOL-380 General Ecology, 4 cr. An introduction to the basic concepts of ecology. Study of the factors/interactions that determine the distribution and abundance of species at the individual, population, community, and ecosystem levels. Lecture, laboratory, and fieldwork. *Prereq.:* BIOL-102 and BIOL-103.

BIOL-386 Ecological Methods, 4 cr. Field and laboratory methodology for the ecologist. Includes instruction on experimental design, quantitative sampling, data acquisition and interpretation as well as the preparation of project reports. *Prereq.:* BIOL-380.

BIOL-391 Independent Study in Biology, 1 cr. A field, laboratory, or library study of a biologically oriented topic. *Prereq.:* twelve credit hours in biology at the 200 or 300-level, including at least two field or laboratory courses. These courses should be supportive of the project to be undertaken. Restricted to undergraduates. Departmental consent.

BIOL-392 Independent Study in Biology, 2 cr. (See BIOL-391 for description.)

BIOL-393 Independent Study in Biology, 3 cr. (See BIOL-391 for description.)

BIOL-399 Topics in Biology, 3 cr. Selected course offerings in modern biology. Topics studied differ from term to term. Consult the Schedule of Classes for specific topics. *Prereq.:* Consent of instructor.

BIOL-401 Analysis of Development, 3 cr. Analysis of mechanisms underlying developmental processes in the embryo and adult organisms with special emphasis on the role of the genes in development. Lecture only. *Prereq.:* graduate standing; BIOL-311, BIOL-ZOOL-311 or BIOL-ZOOL-323.

BIOL-402 Biochemical Genetics, 3 cr. Explores the biochemistry of the genetic material and the cell's ability to replicate, transcribe, and translate genetic information. Recent discoveries in gene manipulation are discussed. Lecture and laboratory. *Prereq.:* graduate standing; BIOL-311; and BIOL-316.

BIOL-403 Seminars in Biology, 1 cr. Students give an oral presentation on selected topics; two hours per week; course may be repeated up to a maximum of three credits by departmental permission. *Prereq.:* graduate standing.

BIOL-405 Electron Microscopy, 3 cr. Theoretical principles and operational procedures of electron microscopy, interpretation of electron micrographs, and correlation of cell ultrastructure and function. Lecture and laboratory, *prereq.:* Graduate standing and BIOL-321.

BIOL-406 Physical Biochemistry, 3 cr. Study of the physical and chemical phenomena associated with the metabolism and isolation of important biological compounds; mechanisms involved in the passage of metabolites across biological membranes; release of energy in enzymatic systems; equilibria of important biochemical constituents in un/- and multi-celled organisms; isolation and purification of biologically active compounds. Lecture only. *Prereq.*: graduate standing and BIOL-316; one course in physics recommended.

BIOL-407 Enzymology: Enzyme Structure and Function, 3 cr. Enzymes as protein catalysts; the structure of a biological catalyst as discerned by x-ray diffraction, chemical modification, nuclear magnetic resonance, and kinetic studies is analyzed and related to function. Lecture, demonstration, discussion and laboratory. *Prereq.*: graduate standing and BIOL-316.

BIOL-408 Bio-Environmental Analysis, 3 cr. Individual and group field projects providing experience in techniques appropriate to the analysis of natural communities and their environmental components. Studies include contrasts between selected natural areas and similar ones altered by man. A summary interpretive paper, using data acquired, is required from each student. Lecture, laboratory, and fieldwork. *Prereq.*: graduate standing and BIOL-ZOOL-325, BIOL-BOT-321, or equivalent.

BIOL-410 Advanced Immunology, 3 cr. Contemporary issues in immunochemistry as related to antibody structure and function; lectures and discussion of current papers on antibody structure, the inheritance of immune response capacities, immunological tolerance, and transplantation disease. Lecture and discussion. *Prereq.*: graduate standing, BIOL-311, BIOL-316, and BIOL-327.

BIOL-419 Radiobiology, 4 cr. The use of radioisotopes in biological experiments. Principles of nuclear decay, properties and detection of ionizing radiation. Somatic and genetic effects of radiation at the organismic, cellular, and biochemical levels. Lecture and laboratory. *Prereq.*: graduate standing and six credit hours in chemistry; six credit hours in physics; one course in biochemistry or a 300-level physiology course.

BIOL-420 Metabolism, 3 cr. The fundamental bond-making and bond-breaking processes (intermediary metabolism) enabling living organisms to be produced and maintained; emphasis on the regulations of and reaction mechanisms involved in the "energy flow" associated with intermediary metabolism. Lecture and laboratory. *Prereq.*: graduate standing, minimum of one course in general biochemistry. *Preq. recom:* Organic Chemistry II.

BIOL-481 Biological Literature, 3 cr. Preparation of a series of scientific papers based on a literature search. Activities include the research and synthesizing of literature with reference to certain topics. *Prereq.*: graduate standing and at least 18 credit hours in graduate biology.

BIOL-482 Quaternary Ecology, 4 cr. Introduction to the principles and techniques of paleoecology; emphasis on the effects of global and regional climate/environmental change on ecosystems, communities, and populations during the Quaternary Period. *Prereq:* BIOL 380 or ESCI 212.

BIOL-483 Historical and Contemporary Patterns in Species Diversity, 3cr. Contemporary, historical and phylogenetic patterns of species diversity; current hypotheses for local, regional and global diversity trends; diversity case studies from plant and animal communities in aquatic and terrestrial systems. Lecture and discussion. *Prereq:* BIOL 380; coursework in plant or animal biology or biogeography recommended.

BIOL-497 Thesis Seminar, 3 cr. Guidance of students writing a library thesis to fulfill requirements for the Master of Science degree in Biology, Option II. *Prereq.:* acceptance to candidacy in the Master of Science Program in Biology, Option I1.

BIOL-498 Advanced Topics in Biology, 3 cr. Topics studied differ from term to term. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and consent of instructor.

BIOL-499 Research Thesis, 6 cr. Guidance of students conducting research and writing a thesis to fulfill requirements for the Master of Science degree in Biology, Option I. *Prereq.:* acceptance to candidacy in the Master of Science in Biology program and departmental approval for experimental/field study thesis.

Botany

BIOL-BOT-311 General Mycology, 3 cr. The fungi, their laboratory cultivation, natural history, morphogenesis, genetics, and physiology. Lecture and laboratory. *Prereq.:* six credits in general biology and BIOL-BOT-318.

BIOL-BOT-312 Economic Botany, 3 cr. Plants of particular economic significance to humans as sources of food, fibers, flavoring agents, drugs, industrial chemicals; horticultural plants; the role of economic plants in past and modern society. Lecture only. *Prereq.:* a course in botany or six credits in general biology.

BIOL-BOT-313 Plant Anatomy, 3 cr. The cellular, organismic, and gross structures of the vascular plants; their interrelationships with development and function in time and environment. Lecture and laboratory. *Prereq.:* six credits in general biology.

BIOL-BOT-314 Local Flora, 3 cr. Phylogenetic interpretation derived from plant diversity; the importance of the patterns of contemporary plants from the standpoint of evolution; taxonomic study of local vascular plants. Lecture, laboratory and fieldwork. *Prereq.:* six credits in general biology.

BIOL-BOT-315 Plant Physiology, 4 cr. Physiochemical basis of plant life, emphasizing life processes of major significance to the seed plants. Lecture and laboratory. *Prereq.:* six credits in general biology, including BIOL-201 and one course in organic chemistry.

BIOL-BOT-316 Phycology, 3 cr. Cultivation and laboratory study of the chlorophytes, cyanophytes, chrysophytes, phaeophytes, rhodophytes, and flagellated types of algae; algal cytology, taxonomy, phylogeny, physiology, ecology, and economics. Lecture and laboratory. *Prereq.:* six credits in general biology; BIOL-BOT-318 recommended.

BIOL-BOT-318 General Plant Morphology, 3 cr. Principles of plant morphology illustrated by life histories of representative forms of the major plant groups. Lecture and laboratory. *Prereq.:* six credits in general biology.

BIOL-BOT-321 Plant Ecology, 3 cr. Ecological principles illustrated by environmental and successional relationships in selected plant communities of the Chicago area. Lecture and fieldwork. *Prereq.:* six credits in general biology.

BIOL-BOT-402 Plant Biochemistry, 3 cr. Metabolic pathways of particular importance to plants, such as photosynthesis, the dissemination of starch, nitrogen fixation, and the formation of certain secondary products; metabolic pathways common to plants and other groups of organisms; phytohormonal control. Lecture only. *Prereq.:* graduate standing and BIOL-316.

Zoology

BIOL-ZOOL-201 Human Genetics, 3 cr. Heredity laws as they relate to humans; nature and origin of genetic similarity and diversity; relationship of genetics to medicine and society. Lecture and discussion. *Prereq.:* BIOL-103

BIOL-ZOOL-213 Mammalian Anatomy, 4 cr. Gross architectural elements of the mammalian body, with emphasis upon correlation of form and function. Lecture and laboratory. *Prereq.:* six credits in general biology.

BIOL-ZOOL-311 General Embryology, 3 cr. Development of animals, both vertebrate and invertebrate, from the egg to the adult stage. Lecture and laboratory. *Prereq.:* six credits in general biology.

BIOL-ZOOL-312 Vertebrate Physiology, 4 cr. Functions and interrelationships of organ systems. Lecture and laboratory. *Prereq.:* BIOL-102 and BIOL-301.

BIOL-ZOOL-313 Entomology, 3 cr. Insects, their identification, classification, habits, and ecological relationships, with special emphasis on those common to the Chicago area. Lecture, laboratory, and fieldwork. *Prereq.:* six credits in general biology.

BIOL-ZOOL-314 Ornithology, 3 cr. Birds, their identification, classification, habits, ecological relationships, and conservation, with special emphasis on those indigenous to the Chicago area. Lecture, laboratory, and fieldwork. *prereq.:* six credits in general biology.

BIOL-ZOOL-315 Invertebrate Zoology, 3 cr. Taxonomy and comparative morphology of the major phyla of invertebrates; life histories of representative forms. Lecture and laboratory. *Prereq.:* six credits in general biology.

BIOL-ZOOL-316 Animal Behavior, 3 cr. Comparative ethology in the animal kingdom and its adaptive significance based upon the evolution of form and function of the nervous system, sense organs and effector organs; topics include instinct, learning, intelligence, social organization, and their physiological integrating mechanisms. Lecture only. *Prereq.:* six credits in general biology.

BIOL-ZOOL-317 Animal Parasitology, 3 cr. Taxonomy, anatomy, physiology, and significance of parasitic animals; host-parasite interactions; distribution of parasites throughout the world; examination of their life cycles, and prophylaxis and therapy of parasitic infections. Lecture and laboratory. *Prereq.:* six credits in general biology and BIOL-ZOOL-326.

BIOL-ZOOL-318 Vertebrate Histology, 3 cr. The microscopic anatomy of adult mammalian cells, tissues, and organs. Lecture and laboratory. *Prereq.:* six credits in general biology, including BIOL - 102.

BIOL-ZOOL-323 Developmental Anatomy, 4 cr. Phylogenetic study of the embryology and adult anatomy of the vertebrates. The course combines the traditionally separate courses in comparative vertebrate anatomy and embryology. Lecture and laboratory. *Prereq.:* nine credits in biology, including BIOL-ZOOL-326 or a course in general zoology.

BIOL-ZOOL-324 Endocrinology, 3 cr. Certain glandular secretions and neurosecretions; the hormones and their function in maintaining homeostasis in the vertebrates; current research on hormone action; minor reference to invertebrate hormones. Lecture and laboratory. *Prereq.:* BIOL-102, BIOL-103, BIOL-301, CHEM-211 and BIOL-ZOOL-312.

BIOL-ZOOL-325 Animal Ecology, 3 cr. Basic principles of the interrelationships between animals and their environment; the current danger of disturbing balances in nature by environmental contamination. Lecture, laboratory, and fieldwork. *Prereq.:* six credit hours in general biology.

BIOL-ZOOL-326 Animal Kingdom, 3 cr. Anatomy, physiology, classification, and phylogeny of animals. Lecture and laboratory. *Prereq.:* six credits in 100-level biology.

BIOL-ZOOL-327 Local Fauna, 3 cr. Taxonomy and field identification characteristics of local animal groups with emphasis on collecting organisms in selected ecosystems in the region. Both major invertebrate and vertebrate taxa are surveyed; organisms collected in the field are studied in the laboratory. Students prepare a collection of labelled organisms. Lecture, laboratory, and field work. *Prereq.:* six credits in biology.

BIOL-ZOOL-329 Neurobiology, 3 cr. (Formerly BIOL-ZOOL 403). General consideration of nervous system in vertebrates and invertebrates. Excitable membrane physiology, synaptic mechanisms, and neuronal organization with emphasis on the integrative aspects of neural function. Lecture and laboratory. *Prereq.:* six hours of chemistry, four hours of physics and BIOL-ZOOL- 312.

BIOL-ZOOL-402 Comparative Animal Physiology, 3 cr. Physiological and biochemical evolution of animals with emphasis on the range and variety of physiological mechanisms and processes involved in adaptations to special habits and habitats. Lecture and laboratory. *Prereq.:* graduate standing, BIOL-ZOOL-312, BIOL-ZOOL-326, or equivalent.

CHEMISTRY

Pratibha Varma-Nelson, Ph.D., Professor, Chair
 Sargon John Al-Bazi, Ph.D., Professor
 Veronica A. Curtis-Palmer, Ph.D., Associate Professor
 Ana Fraiman, D. Sc., Associate Professor
 Warren Menezes, Ph.D., Assistant Professor
 Thomas R. Weaver, Ph.D., Assistant Professor

Chemistry is a physical science with far reaching applications that touch virtually every aspect of our day-to-day existence. Careers in chemistry offer numerous possibilities in a wide range of industries and in education.

The Chemistry program offers courses leading to the degrees of Bachelor of Science and Master of Science. The undergraduate curriculum prepares students for careers in industry, environmental chemistry positions, and teaching as well as for graduate study. Undergraduate courses also provide appropriate backgrounds for students planning careers in medicine, dentistry, nursing and related professional health fields.

In 1985, Northeastern Illinois University was added to the American Chemical Society's (ACS) Approved List of baccalaureate chemistry programs in colleges and universities. Being included on the Approved List means that the chemistry curriculum meets standards established by the ACS Committee on Professional Training. Students completing the ACS track will earn a certificate stating that they have met ACS standards for professional training.

Transfer students majoring in chemistry need to contact a program advisor immediately so that transfer credits may be evaluated and an appropriate program of study planned.

Chemistry courses are designed to be taken in sequence. Students will not be permitted to register for courses if they do not have credit for the required prerequisites.

Undergraduate students are encouraged to participate in research programs with faculty members and may take CHEM-305, Independent Study in Chemistry, 3 cr. and CHEM-399, Research in Chemistry, 3 cr. for that purpose. Internships with local chemical industries and laboratories are also encouraged through CHEM-365, Internship in Chemistry I, 6 cr. and CHEM-366, Internship in Chemistry II, 6 cr. Please consult with the undergraduate advisor concerning these courses.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

UNDERGRADUATE PROGRAMS

Major in Chemistry for the Bachelor of Science Degree

Required Courses:

*CHEM-211 General Chemistry I	5 cr.
*CHEM-212 General Chemistry II	4 cr.
CHEM-213 Quantitative Analysis	5 cr.
**CHEM-231 Organic Chemistry I	4 cr.
**CHEM-232 Organic Chemistry II	4 cr.
CHEM-311 Physical Chemistry I	4 cr.
CHEM-312 Physical Chemistry II	4 cr.
CHEM-330 Instrumental Analysis: Spectroscopy or CHEM-331 Instrumental Analysis: Quantitative Methods	4 cr.
CHEM-390 Seminar in Chemistry	1 cr.
Two electives chosen from the following:	6-8 cr.
CHEM-316 Inorganic Chemistry	4 cr.
CHEM-318 Industrial Chemistry	3 cr.
CHEM-319 Chemical Aspects of Environmental Chemistry	3 cr.
CHEM-320 Industrial Aspects of Environmental Chemistry	3 cr.
***CHEM-330 Instrumental Analysis: Spectroscopy	4 cr.
***CHEM-331 Instrumental Analysis: Quantitative Methods	4 cr.
CHEM-332 Identification of Organic Compounds	4 cr.
CHEM-347 Advanced Organic Chemistry: Polyfunctional Compounds	3 cr.
CHEM-348 Advanced Organic Chemistry: Bio-Organic Compounds	3 cr.
CHEM-349 Organic Synthesis	3 cr.
CHEM-357 Chemical Kinetics	3 cr.
Any other 300-level chemistry course approved by the department.	

Total 41-43 cr.

*CHEM-260, General Chemistry I Seminar, and CHEM-261, General Chemistry II Seminar are strongly recommended to be taken concurrently with CHEM-211 and CHEM-212, respectively.

**CHEM-262, Organic Chemistry I Seminar, and CHEM-263, Organic Chemistry II Seminar are strongly recommended to be taken concurrently with CHEM-231 and CHEM-232, respectively.

***Major elective credit is given only if the course is not used to count towards the required courses in the major.

Required Courses in a Related Field:

MATH-107 Calculus I	4 cr.
MATH-202 Calculus II	4 cr.
PHYS-203 Physics I Laboratory	1 cr.
PHYS-204 Physics II Laboratory	1 cr.

*PHYS-206	Physics with Calculus I or PHYS-201 College Physics I	3 cr.
*PHYS-207	Physics with Calculus II or PHYS-202 College Physics II	3 cr.
	Total	16 cr.

* PHYS-206 and PHYS-207 are strongly recommended for all chemistry majors and required for those in the A.C.S. approved program.

Students with foreign credentials and evaluated by the Office of Admissions as having 90 credit hours must take as a minimum the following six courses: CHEM-213, CHEM-232, CHEM-311, CHEM-312, CHEM-330 or CHEM-331, and CHEM-390. Additional courses may be required in chemistry, physics or mathematics. Students should see their advisor.

American Chemical Society approved program in Chemistry:

Graduating majors may receive a certificate stating that they have completed a program which meets the ACS standards for Professional Training if they fulfill the following requirements:

Take PHYS-206 as prerequisite for CHEM-311.

Take PHYS-207 as prerequisite for CHEM-312.

Take CHEM-311 and CHEM-312 during the junior year.

CHEM-316, CHEM-330, CHEM-331, CHEM-347 and CHEM-348 are required. CHEM-318 and CHEM-326 do not count as electives. Two additional 300-level electives must then be selected.

Completion of this program requires a minimum of 50 cr. in chemistry with a minimum grade point average of 3.0 and no chemistry grades below C in any required course.

Minor in Chemistry (22 cr. hrs.)

CHEM-211	General Chemistry I	5 cr.
CHEM-212	General Chemistry II	4 cr.
CHEM-213	Quantitative Analysis	5 cr.
CHEM-231	Organic Chemistry I	4 cr.
CHEM-232	Organic Chemistry II	4 cr.
	Total	22 cr.

Substitutions require written approval by the chemistry advisor.

Transfer students must take a minimum 9 credit hours in chemistry at Northeastern to complete a Chemistry Minor. These courses must be approved by the chemistry advisor.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

GRADUATE PROGRAM

Master of Science in Chemistry

This program provides graduate education for students planning careers in industry, business, teaching or planning additional graduate work or professional studies. Two options

in the program are available, the Separation Science Emphasis, and the traditional General Program Emphasis.

The Separation Science Emphasis, the first of its kind in the Chicagoland area, is designed to train chemists for the largest subset of industrial analytical chemistry known as Separation Science. Highlighted in this emphasis are the studies of and research in gas and liquid chromatography and related technologies. Those planning careers in the pharmaceutical industry and in the environmental sciences will be well prepared by completing this emphasis in their master's degree program.

The General Program Emphasis is a more broadly based program of study well suited for teachers, and students intending to enter professional schools and to continue graduate work in chemistry.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Full admission to the program requires at least a 3.0 (B) average in the following prerequisite undergraduate courses: (a) two semesters of general chemistry, two semesters of organic chemistry, two semesters of physical chemistry, and one semester of analytical chemistry (all of these must include laboratory); (b) two semesters (normally eight credit hours) of physics including laboratory; and (c) two semesters (normally eight credit hours) of calculus.

Conditional admission to the program may be granted when a student has a marginal undergraduate record or a deficiency in prerequisite undergraduate courses. All conditions must be fulfilled for candidacy (see below).

If the admission file/evaluation is not completed by the time of registration, the student may choose to register as a graduate student-at-large provided the appropriate application has been filed with the Office of Admission and Records in accordance with their established deadlines.

Requirements for the Degree:

1. Course Work: (30 credit hours)

A total of 30 credit hours must be earned. The majority of students take approximately ten formal courses. Options are available to earn credit hours for research, independent study, and thesis work as outlined below.

For students admitted to Master's programs for the Fall 1997 semester and thereafter, graduate coursework is at the 400-level. However, two of the following courses may be taken as part of the master's program if they have not been previously taken as part of an undergraduate program. No other 300 level courses can apply. Consult with your program advisor or the Graduate College for details.

CHEM-316	Inorganic Chemistry	4 cr.
	and	
CHEM-330	Instrumental Analysis: Spectroscopy	4 cr.
	or	
CHEM-331	Instrumental Analysis: Quantitative Methods	4 cr.

CORE COURSES

All students must take at least one course in each of the four areas of the Core Courses.

Analytical Chemistry

CHEM-450 Gas Chromatography 3 cr.

Inorganic Chemistry

CHEM-402 Organometallic Chemistry 3 cr.

CHEM-406 Coordination Chemistry 3 cr.

Organic Chemistry

CHEM-403 Physical Methods of Organic Chemistry 3 cr.

CHEM-411 Organic Reaction Mechanisms 3 cr.

Physical Chemistry

CHEM-404 Chemical Thermodynamics 3 cr.

CHEM-412 Reaction Kinetics 3 cr.

SEPARATION SCIENCE EMPHASIS**Required Coursework:**

CHEM-451 Liquid Chromatography 3 cr.

CHEM-455 Method Development
and Validation in Liquid Chromatography 3 cr.

CHEM-456 Advanced Chromatographic Methods 3 cr.

Students writing a thesis take 12 hours from the CORE, the 9 hours of Required Coursework in the Separation Science Emphasis, and 9 hours of Independent Study and Thesis Seminar in the area of Separation Science. Non-thesis students take 18 hours from the CORE, the 9 hours of Required Coursework, and 3 hours of Independent Study in Chemistry in the area of Separation Science.

GENERAL PROGRAM EMPHASIS

Students in the General Program Emphasis must take 30 credit hours from the CORE and/or Separation Science Emphasis and are also encouraged to do research and/or thesis work. Please check point 4 below, Final Examination.

2. **Candidacy:** Upon completion of 12 credit hours, formal application for candidacy must be filed with the Graduate College. Conditional admissions are reviewed at this time and grade point averages must be at least 3.0 (B). Candidacy is required for continued progress in the Master of Science program in Chemistry. It is a prerequisite for research and thesis work.

3. **Research and Thesis Work:** Students are encouraged to do laboratory or library research and/or more formally, write a thesis, and may do so under the following conditions:

- acceptance for candidacy;
- acceptance by a research or thesis advisor.

Academic credit for research and thesis work is normally earned through Independent Study (CHEM-408, 3 cr.) and Thesis Seminar: Chemistry (CHEM-409, 6 cr.). Individual arrangements are made between the student and the research advisor.

4. **Final Examination:** Students writing master's theses are required to make a public oral defense of their work. Non-thesis students must make a public oral presentation of their

research work, or take a comprehensive written departmental examination. Consult the graduate advisor for details.

5. **Students with Foreign Credentials:** Students with foreign credentials should check with the Graduate College regarding transcript evaluation and English language testing. Since this is often a lengthy process, it is advisable for the international student with residency status to begin taking graduate courses in chemistry as a student-at-large while waiting for official word on admission. Consult the graduate advisor.

6. **Merit Tuition Waivers and Assistantships:** The Chemistry program is regularly allotted Merit Tuition Waivers to defray the cost of tuition for graduate students. Check with the graduate advisor for eligibility requirements well in advance of registration.

Students wishing to pursue their master of science degree on a full-time basis may occasionally do so with modest support from the University in the form of an assistantship. To be eligible for an assistantship the student must have completed at least two terms at the University and have a grade point average of at least 3.25 (on a 4.0 scale).

COURSE OFFERINGS

CHEM-103 Chemistry and Society, 3 cr. Introduction to chemistry based on the study of some of the processes and materials which chemistry contributes to our civilization. Elementary chemical principles are used to explain the behavior of synthetic polymers, toxic substances, food additives, cleaning products, and other chemically manufactured materials. Knowledge of basic algebra skills is assumed. *Prereq.:* MATH-DEV-091 or MATH-102 Placement.

CHEM-110 Chemical Concepts, 3 cr. Lab-oriented survey course in chemistry designed for the non-science major including such topics as the historical development of chemistry, atomic theory, solution chemistry, organic, and biochemistry. Knowledge of basic algebra skills is assumed. Lecture 2 hours, lab 2 hours. *Prereq.:* MATH-102.

CHEM-200 Introduction to General Chemistry, 3 cr. Basic principles of chemistry with particular emphasis on solving simple numerical problems and writing and balancing chemical equations; especially for students planning to take CHEM-211.

CHEM-211 General Chemistry I, 5 cr. Introduction to general inorganic chemistry, including stoichiometry, concentration units, gas laws, atomic structure, bonding, periodic laws, states of matter, solutions, acid-base theories, rate, equilibrium, and oxidation-reduction theory. Lecture and laboratory. *Prereq.:* minimum math placement exam recommendation of 3 or 4 or satisfactory completion of MATH-102.

CHEM-212 General Chemistry II, 4 cr. Continuation of General Chemistry I with emphasis on reaction rates, equilibria in aqueous solutions, thermochemistry, oxidation-reduction reactions, and the methods of qualitative analysis. Lecture and laboratory. *Prereq.:* CHEM-211.

CHEM-213 Quantitative Analysis, 5 cr. Statistical analysis of data, chemical equilibrium, simultaneous equilibria, classical and non-classical gravimetric and volumetric techniques,

acid-base and oxidation-reduction reactions, spectrophotometric and potentiometric measurements.

Prereq.: CHEM-212.

CHEM-231 Organic Chemistry I, 4 cr. Study of the structure, properties, reaction mechanisms, and nomenclature of aliphatic and aromatic hydrocarbons and their derivatives. Lecture and laboratory. *Prereq.:* CHEM-212.

CHEM-232 Organic Chemistry II, 4 cr. Continuation of CHEM-231. A study of the structure, properties, reaction mechanisms, synthesis, and infrared and nuclear magnetic resonance spectroscopy of the alcohols, acids, amines, and other mono-functional compounds. Lecture and laboratory. *Prereq.:* CHEM-231.

CHEM-260 General Chemistry I Seminar, 1 cr. Enrichment seminar accompanying CHEM 211. Students do problem solving in collaborative learning groups on material derived from and supplementing General Chemistry I to gain a deeper understanding of concepts and applications. *Prereq.:* Restricted to students taking CHEM-211 concurrently.

CHEM-261 General Chemistry II Seminar, 1 cr. Enrichment seminar accompanying CHEM 212. Students do problem solving in collaborative groups on material derived from and supplementing General Chemistry II to gain a deeper understanding of concepts and applications. *Prereq.:* Restricted to students taking CHEM-212 concurrently.

CHEM-262 Organic Chemistry I Seminar, 1 cr. Enrichment Seminar accompanying CHEM 231. Students do problem solving in collaborative learning groups on material derived from and supplementing Organic Chemistry I to gain a deeper understanding of concepts and applications. *Prereq.:* Restricted to students taking Organic Chemistry I.

CHEM-263 Organic Chemistry II Seminar, 1 cr. Enrichment Seminar accompanying CHEM 232. Students do problem solving in collaborative learning groups on material derived from and supplementing Organic Chemistry II to gain a deeper understanding of concepts and applications. *Prereq.:* Restricted to students taking Organic Chemistry II.

CHEM-305 Independent Study in Chemistry, 3 cr. An introduction to original chemical research under faculty supervision. *Prereq.:* junior standing and consent of instructor.

CHEM-306 Selected Topics in Chemistry, 3 cr. Topics of current interest for students who have junior standing in chemistry. Consult the Schedule of Classes for specific topics.

Prereq.: CHEM-232; junior standing.

CHEM-311 Physical Chemistry I, 4 cr. Theoretical and experimental study of the structure and properties of matter, including the gaseous state, chemical thermodynamics, chemical equilibrium, liquids and phase equilibria, solutions of nonelectrolytes and ionic solutions. Lecture and laboratory. *Prereq.:* CHEM-213, CHEM-232, MATH-107, PHYS-203, PHYS-201 or PHYS-206. It is strongly suggested that the student have completed a year of physics with laboratory.)

CHEM-312 Physical Chemistry II, 4 cr. Continuation of CHEM-311, including the kinetic-molecular theory, transport properties, chemical kinetics, statistical mechanics, quantum theory, atoms and diatomic molecules, and spectroscopy. Lecture and laboratory. *Prereq.:* CHEM-311, MATH-202, PHYS-204, and PHYS-202 or PHYS-207.

CHEM-316 Inorganic Chemistry, 4 cr. A thorough study of bonding in non-transition and transition elements, periodic trends and tendencies, structural relationships, and mechanisms of inorganic reactions. Lecture and laboratory. *Prereq.:* CHEM-232.

CHEM-318 Industrial Chemistry, 3 cr. A study of the industrial aspects of chemistry, including economics, design and operation of process equipment, and a study of a variety of chemical industries. *Prereq.:* CHEM-231.

CHEM-319 Chemical Aspects of Environmental Chemistry, 3 cr. A survey of the chemical principles involved in environmental problems. Topics include atmospheric, aquatic, and geospheric chemistry, sources of pollutants and the consequences of pollution. *Prereq.:* CHEM 212 and CHEM-232.

CHEM-320 Industrial Aspects of Environmental Chemistry, 3 cr. Industrial aspects of environmental chemistry covering specific topics such as energy, water and wastewater treatment, treatment and disposal of domestic and industrial wastes, techniques for detecting and analyzing chemical pollutants, environmental modeling and recycling strategies.

Prereq.: CHEM-213 and CHEM-232.

CHEM-326 Chemical Literature, 2 cr. Introduction to library research in chemistry, and preparation of a review paper in some current field of chemistry. *Prereq.:* one 300-level course in chemistry.

CHEM-330 Instrumental Analysis: Spectroscopy, 4 cr. Intensive laboratory introduction to infrared spectroscopy, ultraviolet and visible spectroscopy, mass spectrometry, and nuclear magnetic resonance spectroscopy, and the qualitative, quantitative, and research aspects associated with them. Lecture and laboratory. *Prereq.:* CHEM-213, CHEM-232 and consent of instructor.

CHEM-331 Instrumental Analysis: Quantitative Methods, 4 cr. Introduction to the theory and practice of instrumental methods used to determine composition of materials, including gas and liquid chromatography, atomic absorption and emission, X-ray diffraction and fluorescence, and potentiometry. Lecture and laboratory. *Prereq.:* CHEM-213 and CHEM-231.

CHEM-332 Identification of Organic Compounds, 4 cr. Chemical, physical, and spectroscopic methods and their use in the separation, purification, and identification of organic compounds. Lecture and laboratory. *Prereq.:* CHEM-213 and CHEM-232.

CHEM-347 Advanced Organic Chemistry: Polyfunctional Compounds, 3 cr. Chemistry of polyfunctional compounds, condensed aromatic and heterocyclic systems, electrocyclic reactions and molecular rearrangements. *Prereq.:* CHEM-232.

CHEM-348 Advanced Organic Chemistry: Bioorganic Compounds, 3 cr. The chemistry of complex molecules such as proteins, nucleic acids, and carbohydrates is studied from the point of view of their physical properties, and their reaction, synthesis, and structure-function relationships. *Prereq.:* CHEM-232.

CHEM-349 Organic Synthesis, 3 cr. A systematic approach to the synthesis of complex organic compounds will be developed. The retrosynthetic approach will be taken, with a final target molecule being the goal of the synthesis. It will be taken apart, step-by-step to arrive at reasonable starting materials for the synthesis. Availability and expense of potential starting materials, necessity of protecting groups, and production of isomeric and/or stereoisomeric mixtures will be among the points of consideration for each synthesis. *Prereq.:* CHEM-347.

CHEM-357 Chemical Kinetics, 3 cr. The study and evaluation of various theories of reaction rates and mechanisms of chemical reactions. *Prereq.:* CHEM-311.

CHEM-365 Internship in Chemistry I, 6 cr. Experience in chemistry in an off-campus location, e.g. business or government. The student registering selects well-defined academic goals to be achieved. These goals will be selected in cooperation with an on-campus advisor. *Prereq.:* consent of instructor.

CHEM-366 Internship in Chemistry II, 6 cr. Continuation of CHEM-365. *Prereq.:* consent of instructor.

CHEM-390 Seminar in Chemistry, 1 cr. Critical review of research presented by visiting university and industrial chemists, and student preparation and presentation of original and library chemical research topics. *Prereq. or linked course.:* CHEM-311.

CHEM-399 Undergraduate Research, 3 cr. Original laboratory research conducted with a faculty member. The course will usually require some library research, 10-12 hours per week laboratory work, and the preparation of a formal, typed report. The course is useful for those students seeking recognition under the guidelines authorized by the American Chemical Society. *Prereq.:* CHEM-213, CHEM-232, and pre- or co-requisite CHEM-311.

CHEM-401 Carbohydrates, 3 cr. Structure, stereochemistry, and reactions of monosaccharides, disaccharides, oligosaccharides, and polysaccharides. *Prereq.:* graduate standing and CHEM-312.

CHEM-402 Organometallic Chemistry, 3 cr. The metal-carbon bond including organometallic synthesis, structure, reaction mechanisms, and thermodynamics. Main group metal-carbon compounds, transition metal-carbon compounds, and such special topics as Grignard compounds, ferrocenes, carbonyl complexes, and inorganic multiple bonding. *Prereq.:* graduate standing, CHEM-312 and CHEM-316.

CHEM-403 Physical Methods of Organic Chemistry, 3 cr. Various physical techniques of interest to the organic chemist, including such spectroscopic methods as proton and Carbon-13 nuclear magnetic resonance, infrared and electronic spectroscopy, and mass spectroscopy, with emphasis on interpreting the combined data. *Prereq.:* graduate standing and CHEM-312.

CHEM-404 Chemical Thermodynamics, 3 cr. Principles of thermodynamics and their application to chemical problems with particular emphasis on partial molal qualities, the chemical potential, and the thermodynamics of chemical equilibria. *Prereq.:* graduate standing and CHEM-312.

CHEM-405 Quantum Chemistry, 3 cr. Application of quantum mechanics to chemistry. Topics include the Schrodinger equation and simple applications, the postulates and general principles of quantum mechanics, the harmonic oscillator,

three-dimensional systems, atoms and molecules, and molecular spectroscopy. *Prereq.:* graduate standing and CHEM-312.

CHEM-406 Coordination Chemistry, 3 cr. Scope of transition metal coordination complexes, coordination number and structure, ligand types, isomerization, complex stability, bonding, reaction mechanisms, magnetic moments. *Prereq.:* graduate standing, CHEM-316 and CHEM-312.

CHEM-407 Symmetry in Chemistry, 3 cr. Introduction to those aspects of group theory and symmetry which are particularly relevant to chemistry including point groups, molecular vibrations, hybrid orbitals, and crystal field theory. *Prereq.:* graduate standing and CHEM-312 or PHYS-336.

CHEM-408 Independent Study in Chemistry, 3 cr. Research in a particular area of chemistry under faculty supervision. *Prereq.:* graduate standing and consent of instructor.

CHEM-409 Thesis Seminar: Chemistry, 6 cr. Guidance of students conducting research and writing a thesis to fulfill the requirements for the Master of Science degree in Chemistry. *Prereq.:* acceptance to master's degree candidacy in chemistry and invitation by the department to prepare a research thesis.

CHEM-411 Organic Reaction Mechanisms, 3 cr. Reaction pathways in organic chemistry including isotope effects, linear free energy relationships, stereochemistry, configurational analysis, and pericyclic reactions. *Prereq.:* graduate standing and CHEM-312.

CHEM-412 Reaction Kinetics, 3 cr. Methods of studying reaction rates and mechanisms, derivation of mechanisms from rate laws. Theories of unimolecular and bimolecular reactions, and chain mechanisms and appropriate mathematical analysis. Lecture only. *Prereq.:* graduate standing and CHEM-312.

CHEM-413 Modern Inorganic Chemistry, 3 cr. In-depth survey of modern developments in inorganic chemistry, including noble gas chemistry, multiple bonding in coordination complexes, unusual oxidation states of elements, template reactions, inorganic polymers, and inorganic catalysis. *Prereq.:* graduate standing and CHEM-316.

CHEM-414 Advanced Analytical Chemistry, 3 cr. Electronic and computer-instrument interface, practical aspects of modern instrumental techniques based on various methods of optical spectroscopy and chromatography. *Prereq.:* graduate standing and CHEM-331 or consent of instructor.

CHEM-420 Selected Topics in Chemistry, 3 cr. Topics of current interest. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing.

CHEM-431 Separation Methods, 3 cr. Review of thermodynamic and kinetic parameters as they impact on selectivity and efficiency of separation process, classification and application of modern chromatographic techniques. *Prereq.:* graduate standing and CHEM-331 or consent of instructor.

CHEM-450 Gas Chromatography, 3 cr. Principles and instrumentation, including classification and methods for selection of stationary phases, optimization of operational parameters, and various detection systems. Separation techniques prior to analysis, applications, and hyphenated methods will be discussed. *Prereq.:* graduate standing, CHEM 331, or consent of instructor.

CHEM-451 Liquid Chromatography, 3 cr. Review of thermodynamic and kinetic parameters as they impact on selectivity and efficiency of liquid chromatographic separations. Classification of mobile phases, including selection and ways to improve resolution. Principles of conventional liquid chromatographic techniques and their applications, including hyphenated methods. *Prereq.:* graduate standing, CHEM 331, CHEM 450, or consent of instructor.

CHEM-455 Method Development and Validation in Liquid Chromatography, 3 cr. Systematic approaches to the successful development of HPLC-based analytical methods and their optimization. Practical tools based on the use of computer simulation in method development. HPLC-methods validation presented on the basis of the currently accepted United States Pharmacopeia terminology. *Prereq.:* CHEM-451

CHEM-456 Advanced Chromatographic Methods, 3 cr. Principles, methods and applications of various advanced chromatographic techniques of interest to the analytical chemist, including such chromatographic methods as chiral separations, ligand exchange chromatography, capillary electrophoresis, micellar chromatography, micellar electrokinetic capillary chromatography, and supercritical fluid chromatography. *Prereq.:* CHEM 451 or consent of instructor

COMPUTER SCIENCE

Richard Neapolitan, Ph.D., Professor, Chair
 Netiva Caffori, D.A., Professor
 Miroslava Carlson, M.S., Assistant Professor
 Christine Georgakis, Ph.D., Associate Professor
 Mohammed Haque, Ph.D., Associate Professor
 Heung Kim, Ph.D., Professor
 Peter G. Kimmel, Ph.D., Assistant Professor
 Kumarss Naimipour, Ph.D., Associate Professor
 Norman Noerper, M.B.A., Assistant Professor
 Victor Pellegrini, Ph.D., Professor
 Pericles Prezas, Ph.D., Assistant Professor
 Marcelo Sztainberg, Ph.D., Assistant Professor

The primary goal of the Department of Computer Science is to provide individuals with a broad-based theoretical and practical understanding of Computer Science. Students who complete the program are prepared to assume positions which include applications programmer, systems programmer, systems analyst and software engineer. In addition, students who complete the undergraduate degree are prepared to enter a graduate program in Computer Science.

The Department of Computer Science offers courses leading to the degrees of Bachelor of Science in Computer Science and Master of Science in Computer Science.

The undergraduate curriculum offered by the Department of Computer Science is designed to serve these purposes: to offer an undergraduate major program in computer science for persons who wish to pursue a career in this field; to offer a minor in computer science for students who feel the need for a less extensive concentration in computing techniques;

to prepare students for graduate work in computer science, and to serve students in other academic disciplines by offering instruction in computer applications useful in the areas of specialization.

The Department offers an undergraduate major with three choices of emphasis. In each area of emphasis, students are guided through a carefully selected sequence of courses designed to provide a thorough grounding in practical aspects of the field. Students will also acquire enough theoretical background to enable them to keep up with the rapid changes in computer technology. With carefully chosen major electives, any one of the three tracks can be used as preparation for graduate school. Students should consult a Department advisor to determine which track and electives to choose.

UNDERGRADUATE PROGRAMS

General Requirements:

During their first term, transfer students should have all transferred Computer Science courses evaluated by the Computer Science Department advisor for possible acceptance toward major or minor requirements. Acceptance of credit by the University does not guarantee acceptance by the Department.

Students are advised not to register for more than three (3) Computer Science courses during any 16 week term.

NOTE: CONTACT THE DEPARTMENT PROGRAM ADVISOR FOR CURRENT PROGRAM REQUIREMENTS.

Major in Computer Science for the Bachelor of Science Degree

To declare a major in Computer Science, a student must fill out the "Assignment to Major Form" available in the Department office. In order to register for CS-304 Data Structures, a student must be a declared Computer Science major or minor, or a student-at-large.

Students must complete the major requirements in effect when the declaration of major is accepted by the Department. Students should obtain a Computer Science Major handbook in order to be aware of any changes in requirements.

Major Requirements:

Thirty-six credit hours of computer science course work including at least 24 credit hours of 300-level courses. Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level. Transfer students must complete a minimum of 15 credit hours of 300-level Computer Science courses at Northeastern and meet all major requirements.

Students who intend to pursue a Master's degree in Computer Science should plan on completing Calculus II and should consider taking a course in Linear Algebra.

Required Core Courses:

CS-200	Programming I	3 cr.
CS-207	Programming II	3 cr.
CS-304	Data Structures	3 cr.
CS-301	Computer Organization with Assembly Language Programming	3 cr.
CS-308	Operating Systems	3 cr.
	Total	15 cr.

NO SUBSTITUTIONS ARE ALLOWED FOR CS CORE COURSES.

Emphasis I: BUSINESS DATA PROCESSING

This track is designed primarily for students interested in applications programming.

Required Courses:

CS-202	COBOL Programming	3 cr.
CS-312	Advanced COBOL Programming	3 cr.
CS-315	Data Base Management	3 cr.
CS-316	Introduction to Systems Analysis	3 cr.
CS-318	JCL and Service Programs	3 cr.
Two CS 300-level electives, approved by the CS Department		
		6 cr.
CS Core Courses		15 cr.
	Total	36 cr.

CS-201 (Discrete Structures) may be substituted for one 300-level elective.

Emphasis II: SYSTEMS PROGRAMMING

This track is designed primarily for students interested in working with technical support systems.

Required Courses:

CS-302	Systems Programming	3 cr.
CS-307	Programming Languages	3 cr.
CS-309	Compiler Theory	3 cr.
Select four of the following:		
		12 cr.
CS-201	Discrete Structures	3 cr.
*CS-202	COBOL Programming	3 cr.
CS-305	Computer Logic and Circuitry	3 cr.
CS-311	Modern Computer Architecture	3 cr.
CS-315	Database Management	3 cr.
*CS-318	JCL and Service Programs	3 cr.
CS-324	Introduction to the Design of Algorithms	3 cr.
CS-326	Computer Use for Numerical Methods ...	3 cr.
CS-330	Telecommunications	3 cr.
CS-331	Computer Networks	3 cr.
CS-335	Artificial Intelligence	3 cr.
CS-350	Advanced Discrete Structures	3 cr.
CS-310	Topics in Computer Science (where content is appropriate)	3 cr.

*Only one of these may be included as a Systems Programming track elective.

CS core courses		15 cr.
	Total	36 cr.

Emphasis III: COMPUTER SCIENCE

This track is designed primarily for students intending to pursue an advanced degree in Computer Science.

Required Courses:

CS-201	Discrete Structures	3 cr.
CS-324	Introduction to the Design of Algorithms	3 cr.
Select five of the following:		
		15 cr.
CS-302	Systems Programming	3 cr.
CS-305	Computer Logic and Circuitry	3 cr.
CS-307	Programming Languages	3 cr.
CS-309	Compiler Theory	3 cr.
CS-311	Modern Computer Architecture	3 cr.
CS-315	Database Management	3 cr.
CS-326	Computer Use for Numerical Methods ...	3 cr.
CS-330	Telecommunications	3 cr.
CS-331	Computer Networks	3 cr.
CS-335	Artificial Intelligence	3 cr.
CS-350	Advanced Discrete Structures	3 cr.
CS-310	Topics in Computer Science (where content is appropriate)	3 cr.
CS core courses		15 cr.
	Total	36 cr.

Minor in Computer Science (18 cr. hrs.)

A student may complete a minor in Computer Science by selecting courses totaling at least 18 hours from those offered by the Department of Computer Science including at least 6 credit hours of 300-level courses. Transfer students must complete a minimum of 9 credit hours toward a minor at Northeastern.

The courses must be chosen in consultation with the Department advisor or chairperson.

GRADUATE PROGRAM**Master of Science in Computer Science**

The graduate program provides education for individuals in the field of computer science and data processing who wish to gain further computer sophistication in order to advance their careers. Advanced courses are offered in many areas of current interest such as artificial intelligence and telecommunications.

The program is designed especially for the convenience of the part-time student; courses are scheduled in the evening and on Saturday.

Requirements for Admission to the Program:

Students must satisfy all requirements for admission to the Graduate College.

Full admission to the program requires a four year degree from an accredited undergraduate college, with an overall undergraduate grade point average of not less than 2.75 (on a 4.0 scale). In addition, students must (1) have taken the equivalent of the following CS undergraduate courses: 200 and 207 (or CS-333 C Programming), 304 and 308, and have received an

average grade of "B" in these courses; (2) exhibit mastery of two high level languages - chosen from among C, C++, FORTRAN, LISP, Pascal or PL/1 - and one assembly language. These masteries may be demonstrated by completed course work, appropriate work experience or department examination; and (3) have completed a course in discrete mathematics. CS-201 (Discrete Structures) satisfies this requirement.

Students lacking any of the above requirements may be given permission to register as students at large while they remove the deficiencies. In some cases students may receive conditional admission to the program.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with your program advisor or the Graduate College for details.**

The Master's Degree in Computer Science requires 36 credit hours of course work, 27 of which must be earned at Northeastern Illinois University. The remaining 9 may represent courses taken at accredited institutions with graduate programs in computer science and in conformance with the rules of the Graduate College. The 36 hours will be made up of 18 credit hours of CS core course work and 18 credit hours of CS elective course work (15 if the student completes a Master's Thesis) to be decided on by the student and the graduate advisor. Students admitted to the Master's program for the Fall 1997 semester and thereafter may select no more than 9 hours of specifically approved 300 level courses (see below) to satisfy course requirements for the Master's Degree. Students admitted to the Master's program prior to the Fall 1997 semester may select no more than 12 hours of specifically approved 300 level courses. Courses taken to remove deficiencies will not be counted toward the 36 hours of course work required for the Master's Degree. Courses taken to satisfy undergraduate degree requirements can not be used toward the Master's Degree.

In addition, students are required either to complete a Master's Computer Science Thesis or Project. The choice will be agreed upon by the student and the graduate advisor.

Required Core Courses:

CS-400	Discrete Modeling and Analysis	3 cr.
CS-401	Software Engineering	3 cr.
CS-402	Advanced Systems Programming	3 cr.
CS-404	Analysis of Algorithms	3 cr.
CS-409	Topics in Compiler Theory	3 cr.
CS-490	Master's Project	3 cr.

OR

CS-495	Master's Thesis	6 cr.
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18-21 cr.

Elective Courses:

CS-307	Programming Languages	3 cr.
CS-311	Modern Computer Architecture	3 cr.
CS-330	Telecommunications	3 cr.
CS-331	Computer Networking	3 cr.
CS-335	Artificial Intelligence	3 cr.
CS-403	Authoring Techniques in CAI	3 cr.
CS-408	Advanced Operating Systems	3 cr.
CS-410	Special Topics in Computer Science	3 cr.
CS-414	Independent Study	3 cr.
CS-415	Design of Data Bases	3 cr.
CS-426	Advanced Numerical Methods	3 cr.
CS-430	Queueing Theory in Communic. Networks ..	3 cr.
CS-431	Digital Telephony	3 cr.
CS-435	Expert Systems	3 cr.
CS-440	Computer Graphics	3 cr.
CS-442	Topics in Network Design	3 cr.
CS-450	Advanced Computer Architecture	3 cr.
CS-460	Computer Security	3 cr.
CS-470	Pattern Recognition	3 cr.

The electives should be selected in consultation with the graduate advisor, from the above list.

Upon completion of 12 hours of graduate course work toward the satisfaction of the course requirements for the Master's Degree, students must formally apply for candidacy. The form should be filed with the Graduate College. Conditional admissions are reviewed at this time and grades must average "B" or better.

For more information, students should obtain a Computer Science Graduate Handbook.

COURSE OFFERINGS

CS-100 Introduction to Personal Computing, 3 cr. This course provides the student with a general introduction to computers and their usage in today's society. Topics included are: History of Computing, Computer Hardware and Software and Programming in BASIC. Students will become experienced in using personal computers. *Prereq.: None. (Course not applicable to CS Major.)*

CS-200 Programming I, 3 cr. This is a preparatory course for students who wish to pursue further work in Computer Science. It provides an introduction to the basic concepts of a computer system and the principles of computer programming. Students will get extensive programming experience using microcomputers. A number of programming projects will be assigned involving numeric computations, character manipulation and fundamental constructs of the high-level programming language C/C++. A common comprehensive final exam will be given in CS-200, Programming I. The date and time of the exam will be published in the Schedule of Classes under Department Notes. Students in **all sections** of CS-200 must attend the exam at the published day and time.

Prereq.: MATH-106, or MATH-111, or higher level math.

CS-201 Discrete Structures, 3 cr. Introduction to the fundamental number theoretic, logical, algorithmic, combinatoric, and computational concepts from discrete structures and their applications to computer science. This course involves no programming. *Prereq.:* MATH-106, or MATH-111, or higher level math.

CS-202 COBOL Programming, 3 cr. Introduction to the COBOL Programming language, emphasizing business applications. Students will flowchart, program and test several typical business problems on the computer. *Prereq.:* CS-200.

CS-204 FORTRAN Programming, 3 cr. An in-depth study of FORTRAN programming language, emphasizing mathematics, science, and statistical applications. The student studies methods of problem solving and writes FORTRAN programs for testing on the computer. *Prereq.:* MATH 106.

CS-205 IBM 360/370 Assembler Language Programming, 3 cr. Included are IBM 360/370 architecture and memory layout, instruction sets, data formats, subroutine linkage, macros and debugging. Students will write programs for the IBM 370. *Prereq.:* CS-207.

CS-207 Programming II, 3 cr. This course provides an in-depth study of the principles of structured algorithmic processes and their program implementation using C/C++. Emphasis is given to the design of algorithms and program development (with documentation) involving both numeric computations and string manipulation techniques. Problems will be selected from both the scientific and business areas. Students will become experienced in algorithmic problem solving using pseudocode design methods and C/C++ programming. *Prereq.:* CS-200.

CS-301 Computer Organization with Assembly Language Programming, 3 cr. Representation of data, machine arithmetic, processor organization, instruction execution assembly and machine languages, addressing mechanisms, macros, assembling, linking, loading, parameter passing and implementation of high level language constructs. Programming will be done using Turbo Assembler. Students will gain a vision of levels of abstraction in hardware and software, nature of the Von Neumann machine and the nature of high level languages. *Prereq.:* CS-207.

CS-302 Systems Programming, 3 cr. Introduction to systems programming, including use and implementation of assembler, macros, loaders, compilers, and operating systems. *Prereq.:* CS-304 and CS-308.

CS-303 Basic Concepts in Computer-Assisted Instruction, 3 cr. Introduction to concepts of computer-assisted instruction and the programs and equipment used. Topics include: tutorial, drill and practice, simulation and game programs, and computerized learning-center management. *Prereq.:* CS-200.

CS-304 Data Structures, 3 cr. This course provides experience implementing and manipulating the basic data structures and an analysis of their applications in Computer Science. The same language will be used that was introduced in Programming I and II. *Prereq.:* CS-207.

CS-305 Computer Logic and Circuitry, 3 cr. Introduction to logical design of computers and some of their applications. Included are Boolean algebra, switching theory, number systems,

numerical codes, and computer organization. Engineering problems are de-emphasized. Computer word organization, languages, and use of computers for simple problems will be explained. *Prereq.:* CS-200 or equivalent introduction to Boolean algebra.

CS-306 Advanced Assembler Programming, 3 cr. Advanced topics in assembler language programming, including subroutine linkage, macro construction and data management concepts, and facilities. Emphasis is on the definition, creation, and maintenance of basic DASD files using JCL and data management macro instructions. *Prereq.:* CS-205 or equivalent.

CS-307 Programming Languages, 3 cr. This course provides an introduction to fundamental concepts of programming languages, their structural definition and run time implementation. In addition, it offers a description and a comparative analysis of higher level programming languages such as ALGOL, PL/1, FORTRAN, COBOL, Pascal, APL, LISP, SNOBOL and others. *Prereq.:* CS-304 and Assembler.

CS-308 Operating Systems, 3 cr. A general overview of the ideas underlying operating systems. Included are traditional topics such as file systems, CPU scheduling, memory management and device scheduling, along with topics of more current interest such as deadlock handling, process synchronization and distributed systems. No single operating system is studied; examples are drawn from many sources. *Prereq.:* CS-207 and Assembler.

CS-309 Compiler Theory, 3 cr. Introduction to basic structure and components of a compiler. Finite automata, lexical analysis, regular grammar, context free grammar, top-down and bottom-up parsing techniques. *Prereq.:* CS-304.

CS-310 Topics in Computer Science, 3 cr. Topics which may be presented include: computer languages, new computer system and hardware developments, and new applications of computers. *Prereq.:* appropriate to content.

CS-311 Modern Computer Architecture, 3 cr. This course is intended for those students who wish to understand the architecture and operation of computer systems. Methods for interconnecting processors, memories and I/O devices are discussed. The addressing modes and instruction techniques for manipulation of more complex data structures such as queues, lists and trees are covered. *Prereq.:* CS-308 and Assembler.

CS-312 Advanced COBOL Programming, 3 cr. Advance topics in COBOL Programming, including Report Writer, Table Handling, file processing techniques, Sort Feature, and subprogram linkage. A major programming project will be assigned. *Prereq.:* CS-200 and CS-202; Co-requisite: CS-318.

CS-313 Quantitative Methods and Computer Use, 3 cr. Mathematical and statistical techniques in current natural, physical and social science research with particular emphasis on computer use and research design development. *Prereq.:* CS-207 and MATH-104 or MATH-275 or equivalent.

CS-314 Independent Study in Computer Science, 3 cr. An opportunity for an individual research or applications project under the direction of an advisor knowledgeable in the field of endeavor. The project will be designed by the student and his/her project advisor, and must be approved by the chairperson of the Department of Computer Science before the project itself is undertaken. *Prereq.:* appropriate to content.

CS-315 Data Base Management, 3 cr. Theoretical foundations and state-of-the-art data base management systems. The relational, hierarchical and network approaches to data base management systems and representative systems are described. User interfaces are emphasized. *Prereq.: CS-207.*

CS-316 Introduction to Systems Analysis, 3 cr. Information processing requirements for an organization, emphasizing business applications. Includes analysis of organization and procedures, forms and work flow, work distribution and methods and effects of computerization. *Prereq.: CS-202.*

CS-318 JCL and Service Programs, 3 cr. The structure and use of IBM OS Job Control Language (JCL), with emphasis on practical programming applications. In addition, the major IBM-supplied service programs (Utilities, Sort/ Merge, Loader, and Linkage Editor) will be surveyed, including specific control commands, JCL requirements, and appropriate areas. *Prereq.: CS-202.*

CS-322 Statistical Computer Program Packages, 3 cr. This course provides an in depth study of modern statistical data analysis using as the Binomial and Normal distribution, the Linear Regression model, Analysis of Variance, Nonparametric methods and Computer Random Sampling techniques using MINITAB and GPSS. In addition students will become experienced in the actual implementation of these statistical models with data sets using such statistical software packages as MINITAB, SPSS, BMDP and SAS. *Prereq.: CS-200 and MATH-275 or equivalent.*

CS-324 Introduction to the Design of Algorithms, 3 cr. Methods for analyzing algorithms are discussed including an introduction to asymptotic notation. Several approaches to designing algorithms are covered using theory, examples, and problems. Those approaches include divide-and-conquer, dynamic programming, the greedy approach, backtracking, and branch-and-bound. Different approaches are applied to the same problem to illuminate the relative advantages of the approaches. *Prereq.: CS-201 or MATH-251, CS 304.*

CS-326 Numerical Methods Using Fortran, 3 cr. An introduction to structured Fortran programming, Computational errors, Solving nonlinear equations, Solving sets of Equations, Determinants and matrix inversions, Interpolating polynomials. *Prereq.: CS-200 and MATH-106 or equivalent.*

CS-330 Telecommunications, 3 cr. Types of data communication channels and networks. Equipment: processors, terminals, modems and modulation, multiplexors. Codes, protocols, and data transmission integrity. The ISO model. Implementation support, management, and control of a data network. *Prereq.: CS-304 and CS-308.*

CS-331 Computer Networks, 3 cr. This course covers concepts in data communications, emphasizing protocols. An overview of all protocol layers will be covered, with emphasis on OSI and TCP/IP. *Prereq.: CS-301 and CS-304.*

CS-333 C Programming, 3 cr. A programming course for students with a baccalaureate degree seeking entrance to the master's program in computer science. Students will master basic programming constructs, arrays, manipulation of various data structures and understand the process of analysis of algorithms. Successful completion of this course

is required for admission to the graduate program for students with no evidence of high level programming skills. This course carries no credit in the graduate degree program. (NOTE: Certain CS undergraduate students will be admitted to this course if they have completed CS-200 and CS-207 using the Pascal language, and will receive credit in the undergraduate degree program.)

CS-335 Artificial Intelligence, 3 cr. This course describes the kinds of problems which fall into the area of Artificial Intelligence such as Natural Language Understanding, Vision and Expert Systems, and what makes these problems difficult. Methods are given which show how these problems can be given structure so that conclusions can be drawn from the knowledge each system has available to it, thus enabling such a system to appear to "think" like an intelligent human being. *Prereq.: CS-304.*

CS-337 CICS Programming Using COBOL, 3 cr. Study of online applications concepts and programming techniques using IBM's Customer Information Control System teleprocessing monitor and language. Development of maps and programs using CICS Basic Mapping Support and Command- Level Language with COBOL to communicate with the CICS monitor, access shared files, and format and process terminal screens. *Prereq.: CS-312 and Assembler.*

CS-350 Advanced Discrete Structures, 3 cr. Graph theory, basic counting methods, abstract machines and formal languages from a computer science point of view. *Prereq.: CS-201.*

CS-390 Supervised Field Study I, 3 cr. (Internship) The student completes a computer programming project for an institution at the institution site. The institution defines the project which must be approved by the Department of Computer Science for the purpose of satisfying the course requirement. The project should take approximately 168 hours to complete. NOTE: CS 390 is repeatable for a maximum of 9 credit hours. *Prereq.: at least 24 hours credit in Computer Science courses in an approved track with an average of "B" or better, consent of sponsoring institution, and consent of the department.*

CS-391 Supervised Field Study II, 6 cr. (Internship) Same as CS-390 except that project should take approximately 336 hours to complete.

CS-392 Supervised Field Study III, 9 cr. (Internship) Same as CS-390 except that project should take approximately 504 hours to complete.

CS 400 Discrete Modeling and Analysis, 3 cr. Discrete modeling and analysis provides necessary tools to develop the mathematical maturity through the study of important topics such as combinatorial analysis, discrete structures, algorithmic thinking and mathematical reasoning. Topics include Advanced Enumeration Methods, Recurrence Relations (Equations), Graph Theory, Automata and Formal Languages, Proof Techniques, and Probability and Statistics. *Prereq.: CS 201 and CS 304.*

CS-401 Software Engineering, 3 cr. The complete software development process: requirement specification, design, coding, testing and maintenance. Various software engineering methods for the development of large-scale quality software are presented. *Prereq.: graduate standing, CS-402.*

CS-402 Advanced Systems Programming, 3 cr. Study of system programming tools, their use and their construction. Includes the development of an integrated systems programming environment consisting of a processor simulator, an assembler and a loader. *Prereq.:* CS-304, CS-308 and CS-333.

CS 403 Authoring Techniques in CAI, 3 cr. The study of various concepts associated with computer-aided instruction and authoring. Students will develop software for instructional purposes in their own areas of interest. Languages such as Podium, Visual Basic, HTML, JAVA and LogoWriter can be used. *Prereq.:* Graduate standing.

CS-404 Analysis of Algorithms, 3 cr. Analysis of algorithms. General trees with applications including lexicographic search trees (Tries) and external search trees (B-trees). Graphs including depth-first and breadth first traversals. *Prereq.:* CS-304 and 201.

CS-408 Advanced Operating Systems, 3 cr. Advanced operating system design and construction concepts such as memory, processor, process, and secondary device management, synchronization and communication, security and protection, system performance and evaluation, network, distributed, and fault-tolerant systems. Study of operating systems highlighting these concepts. *Prereq.:* graduate standing, CS-402, CS-308 and CS-333.

CS-409 Topics in Compiler Theory, 3 cr. Design and construction of compilers. Study of actual compilers and development of a compiler for an existing language. *Prereq.:* CS-333.

CS 410 Special Topics in Computer Science, 3 cr. This course will treat a specific topic in computer science varying from semester to semester. Topics offered will depend on faculty and student interests. *Prereq.:* Graduate standing and consent of instructor.

CS-414 Independent Study, 3 cr. An opportunity for advanced study under the direction of an advisor knowledgeable in the field. The area of study will be selected by the student and his/her advisor, and must be approved by the department chair. *Prereq.:* CS-402, CS-409 and consent of the instructor.

CS-415 Design of Data Base Systems, 3 cr. Design and construction of data base systems. Comparison and evaluation of alternative data base organizations. *Prereq.:* graduate standing and CS-315.

CS-426 Advanced Numerical Methods, 3 cr. Numerical differentiations, Numerical integrations, Numerical solution of ordinary differential equations, Boundary-value and characteristic-value problems, Numerical solution of partial differential equations. *Prereq.:* graduate standing, CS-326, MATH-243 and MATH-303.

CS-430 Queueing Theory in Communication Networks, 3 cr. Queueing Systems, birth and death models, Markovian queues, the M/G/1 model, Erlang's equations, models of computer and telecommunication systems. *Prereq.:* CS-330 and MATH-202.

CS-431 Digital Telephony, 3 cr. Advantages over analog telephony, voice digitalization, digital transmission and multiplexing, switching, networks (synchronization, control, and management), traffic analysis, terrestrial vs. satellite. *Prereq.:* CS 330 and MATH 202.

CS-435 Expert Systems, 3 cr. Study of the design and implementation of expert systems. *Prereq.:* CS-304 and CS-201.

CS-440 Computer Graphics, 3 cr. Graphics hardware. Scaling and data charting. Representation of two-dimensional objects. Translation and rotation of objects. Two-dimensional line clipping. Three-dimensional object representation. Perspective in three-dimensional object representation. Line-clipping and hidden line and face removal in three dimensions. *Prereq.:* Graduate Standing.

CS-442 Topics in Network Design, 3 cr. Protocols for computer networks. Performance requirements, evaluation and analysis. Case studies of actual networks. *Prereq.:* Graduate Standing.

CS-450 Advanced Computer Architecture, 3 cr. Computer system structure and design issues such as ALU design, arithmetic algorithms, memory hierarchy, control, microprogramming, instruction sets, addressing, input-output. Comparison of specific examples of computer models and selected topics on parallel processors. *Prereq.:* CS-402.

CS-460 Computer Security, 3 cr. Study of existing hardware and software techniques for implementing security. Passwords, encryption and authorization schemes. Special security problems presented by distributed and network environments. *Prereq.:* admission to the M.S. Program.

CS-470 Pattern Recognition, 3 cr. Statistical and semantical methods of pattern recognition. Image processing with industrial and commercial applications. Application to sound and visual identification problems. *Prereq.:* CS-409.

CS-490 Master's Project, 3 cr. Large scale software project and associated documentation. Topic for the project is chosen in conjunction with a thesis advisor. *Prereq.:* 30 hours of graduate credit.

CS-495 Master's Thesis, 6 cr. Student conducts and writes a thesis in Computer Science. This is an alternative to CS-490 for those who want to pursue a more ambitious project. *Prereq.:* 30 hours of graduate credit.

EARTH SCIENCE

Pratibha Varma-Nelson, Ph.D., Professor, Chair
 Karen S. Bartels, Ph.D., Associate Professor
 Christopher T. Ledvina, Ph.D., Associate Professor
 Laura L. Sanders, Ph.D., Professor, Coordinator
 Charles W. Shabica, Ph.D., Professor
 Hans D. Upadhyay, Ph.D., Professor

Earth Science uses an integrated approach to the study of the problems of the earth environment through a synthesis of geology, meteorology, and oceanography. The B.S. and M.S. programs emphasize geology, however, with attention to the other areas. Great progress and changes have taken place in the earth sciences in recent years. Of particular current interest are plate tectonics, which has revolutionized thinking in earth science; remote sensing and satellite studies of the earth; and the focus on environmental fields such as hydrogeology and engineering geology.

Strong emphasis is placed on experimental and field studies. Internship opportunities are available for advanced students. An independent study option exists for students who wish to complete individualized research under the direction of a faculty member.

Curricula are individually planned to provide a broad basic training in earth science, and more specifically, to prepare students for further graduate study or for careers in the energy, mineral, hydrogeological and environmental fields. Programs have the flexibility to meet individual student needs.

Areas of concentration currently offered are in geology, including petrology-mineralogy, minerals and energy resources, hydrogeology, structural geology-plate tectonics, soil and environmental sciences, and lake and marine coastal systems. Techniques of problem-solving in earth science are emphasized.

Equipment includes an electronic total station, apparatus for X-ray diffraction analysis, physical ground water flow model, hydrogeological equipment, field equipment for ground water and soil sampling, and equipment for thin section and rock preparation, and mineral separation. There are also sedimentation tanks, centrifuge and size analysis apparatus, atomic absorption spectrophotometer, image analysis instrumentation, a student computer lab, a teaching seismograph, facilities for petrographic, hydrogeologic, and water quality analysis, and a 40' research vessel equipped for lake coring, bottom profiling and water sampling. The program maintains 3 monitoring wells on campus for student practice in hydraulic testing.

Earth Science offers programs leading to the degrees of Bachelor of Science and Master of Science.

UNDERGRADUATE PROGRAMS

Major in Earth Science for the Bachelor of Science Degree

The Bachelor of Science in Earth Science degree prepares students for graduate study or positions in industry or state and federal agencies.

Required Courses*:

ESCI-206	Rocks and Minerals	4 cr.
ESCI-207	Atmosphere and Oceans	4 cr.
ESCI-211	Physical Geology	4 cr.
ESCI-212	Historical Geology	4 cr.
ESCI-311	Mineralogy	4 cr.
ESCI-317	Principles of Sedimentation	4 cr.
ESCI-323	Field Geology	5 cr.
ESCI-331	Geological Structures and Map Interpretation	4 cr.

Electives in Earth Science:

Choose from course offerings 8 cr.

Required Courses in Related Fields:

CHEM-211 and CHEM-212	9 cr.
MATH-107 and MATH-202	8 cr.
PHYS-201/203 and PHYS-202/204	8 cr.

Total 66 cr.

* Course substitutions may be allowed by prior arrangement with the undergraduate program advisor.

Minor in Earth Science (19-20 cr. hrs.)

Required Courses:

ESCI-206	Rocks and Minerals	4 cr.
ESCI-207	Atmosphere and Oceans	4 cr.
ESCI-211	Physical Geology	4 cr.
ESCI-212	Historical Geology	4 cr.
One elective Earth Science course		
at the 300-level		3-4 cr.
		Total 19-20 cr.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

GRADUATE PROGRAM

Master of Science in Earth Science

The Master's program in Earth Science trains students for careers in industry and government. It also provides preparation for those who wish to do further graduate study. Graduates typically find employment in the environmental, hydrogeological, engineering geology, energy, or mineral industries. Students are encouraged to participate in basic research under the direction of departmental faculty as part of the program.

At the time a student is accepted to degree candidacy, the faculty decides if the student is eligible to participate in the thesis option. Completion of a thesis carries six hours of credit for ESCI-499, Master's Thesis in Earth Science. Students who do not pursue a research thesis must take two additional courses at the 400-level and complete ESCI-498, Master's Research Project in Earth Science. An oral presentation and defense is required for both options.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Admission to the degree program requires 15 undergraduate semester credit hours in earth science/geology at the 200-level or higher (including a course in Field Geology), a minimum of 8 credit hours in chemistry at the 200-level or higher (including at least one laboratory course), and a minimum of 8 credit hours in physics at the 200-level or higher (including at least one laboratory course). An applicant lacking up to 6 credit hours of the above requirements may be admitted conditionally but must remove the deficiencies as soon as possible.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level, except for a limited number of 300-level courses specifically approved for graduate degree credits in

a given Master's degree program. A current listing appears on the department web page. Departments may permit students to apply up to three of these 300-level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with the Earth Science graduate advisor or the Graduate College for details.**

Upon full admission to the program, the student must satisfactorily complete one of two options:

Option 1: 24 semester credit hours of Earth Science courses at the graduate level, plus six credit hours for the research thesis (ESCI-499), for a total of 30 credit hours.

Option 2: 30 semester credit hours of Earth Science courses at the graduate level, plus three credit hours for the departmental research paper (ESCI-498) for a total of 33 credit hours.

Both degree options require that an oral presentation and defense be given.

Financial Assistance:

A limited number of teaching and graduate research assistantships as well as tuition waivers are available. Contact the graduate advisor for additional information.

COURSE OFFERINGS

ESCI-121 Introduction to Earth Science, 3 cr. Basic concepts of geology, meteorology, oceanography, and the solar system. Discussion of topics of current interest in the earth sciences. Laboratory involves the study of minerals, rocks, maps, and weather instruments. Lecture 2 hours, lab 2 hours. *Prereq.: MATH-102.*

ESCI-123 Geology, Resources, and Environment, 3 cr. Earth, its structure, composition and resources. Mineral and energy resources, their formation and distribution, their supply and demand projections for the future. Water resources and water quality. Environmental impact of resources, nuclear and other waste disposal, geological aspects of earthquake and volcanic hazards. Lecture 3 hours. *Prereq.: MATH-102.*

ESCI-203 Geology of Illinois, 3 cr. Origin, history, and evolution of the rocks and fossils in Illinois. Economic minerals and fossils and mineral-collecting localities. Topography and soil together with the processes responsible for them. Current geological activities within the state. Several required field trips. Lecture: 3 hours.

ESCI-206 Rocks and Minerals, 4 cr. A detailed introduction to rocks and minerals — the essential materials of the solid earth. Classification and systematic study of the chemical and physical properties of the common rock-forming mineral groups; textural and mineral compositional studies of common igneous, sedimentary, and metamorphic rock groups. Lecture 2 hours and lab 3 hours. *Prereq.: ESCI-211 and some chemical background.*

ESCI-207 The Atmosphere and the Oceans, 4 cr. Comprehensive introduction to the earth's hydrosphere and atmosphere; their origin and evolution, physical and chemical characteristics, actions and interactions. Lecture 3 hours, lab 2

hours involving the use of maps, charts, and instruments. *Prereq.: high school chemistry and physics or equivalent strongly recommended.*

ESCI-211 Physical Geology, 4 cr. Detailed study of the materials comprising the earth's crust and interior and the forces acting to change its surface; the origin of continents and ocean basins in light of recent geological research. Lecture 3 hours, lab 2 hours.

ESCI-212 Historical Geology, 4 cr. Evolution of the earth and its flora and fauna, paleoecology; principles of paleontological stratigraphy and techniques of relative and absolute age determination. Lecture 3 hours, lab 2 hours.

Prereq.: ESCI-121 or ESCI-211.

ESCI-301 Geologic Remote Sensing, 3 cr. Introduction to the principles of remote sensing with an emphasis on the use of Landsat imagery in geologic investigations; history of remote sensing, operation of multispectral scanner systems, high altitude infra-red imagery, radar imagery, and digital image processing; applications to resource exploration and geologic mapping. Lecture 2 hours; lab 2 hours. *Prereq.: ESCI-121 or ESCI-211.*

ESCI-308 Geology of the National Parks, 3 cr. Study of the geological processes producing and controlling the lands within the National Park System. Lecture 3 hours. *Prereq.: ESCI-121 or ESCI-211.*

ESCI-309 Geochemistry, 3 cr. Chemical composition of the earth, element abundances, cosmochemistry, meteorites, origin of elements, geochronology, geothermometry, geobarometry, principles of trace element distribution. Igneous, metamorphic, and sedimentary environments. Lecture 3 hours. *Prereq.: CHEM-211 and ESCI-206 or consent of instructor.*

ESCI-311 Mineralogy, 4 cr. Crystallographic principles, crystal systems, and crystal chemistry in the study of minerals. Composition, structure, occurrence, and uses of common minerals. Study of hand specimens and thin sections of minerals and the use of physical and optical properties in their identification. Lecture 3 hours and lab 2 hours. *Prereq.: CHEM-211 and ESCI-206.*

ESCI-314 Paleontology, 4 cr. Principles, study of invertebrate phyla, morphology, taxonomy, evolution and paleoecology, as well as occurrence of various fossil types. Lecture 2 hours, lab 3 hours. *Prereq.: ESCI-212 and BIOL-ZOOL-211.*

ESCI-315 Glacial and Quaternary Geology, 3 cr. Investigations of the geologic processes that have been at work during the last two million years, including the stratigraphic and environmental aspects of glacial and recent sediments. Lecture 3 hours. *Prereq.: ESCI-121 or ESCI-211.*

ESCI-316 Stratigraphy, 4 cr. Principles of stratigraphy including classification of rock units, methods of correlation, general relationship of diastrophism to the depositional sedimentary patterns; systematic study of the more important stratified rocks of North America. Lecture 2 hours, lab 3 hours. *Prereq.: ESCI-212 and ESCI-317.*

ESCI-317 Principles of Sedimentation, 4 cr. The process governing the formation, transportation, and deposition of sediments, and the alterations that transform them into sedimentary rocks. The practical application of these techniques is developed in the laboratory. Lecture 2 hours, lab 3 hours. *Prereq.: ESCI-206.*

ESCI-319 Petrology, 4 cr. Classification of rocks. Study of

mineralogical and textural relations of major rock groups in hand specimens and thin sections. Chemical composition of rocks. Chemical and petrographic data interpretation. Interrelation of petrological processes and plate tectonics. Description of selected and widely referred petrologic complexes. Lecture 2 hours, lab 3 hours. *Prereq.:* ESCI-311.

ESCI-320 Limnology, 3 cr. Physical processes in the lake environment with special attention to Lake Michigan; also human influence on lake processes. Lecture 3 hours. *Prereq.:* nine hours in earth science or related natural science or consent of instructor.

ESCI-322 Economic Geology, 4 cr. Geological occurrence, distribution, classification and origin of major mineral deposits and mineral fuels, and ore petrography. Systematic description of selected mineral resource provinces. Geological, geochemical, and geophysical methods in mineral exploration programs. Case histories. Current developments in search for minerals. Mineral property assessment, economics, projections, and implications. Lecture 3 hours and lab 2 hours. *Prereq.:* ESCI-206 and ESCI-331.

ESCI-323 Field Geology, 5 cr. Introduction to field methods including pace-and-compass and plane table mapping, field trips to south-central Wisconsin, preparation of geologic maps and reports from field data. Attendance at a field camp for 14 days with additional on-campus lectures and laboratory work. Lecture 3 hours, Lab 3 hours. *Prereq.:* ESCI-206 and ESCI-331.

ESCI-325 Seminar in Earth Science, 3 cr. Selected topics of current research interest. Consult the Schedule of Classes for specific topics. *Prereq.:* advanced standing in earth science and consent of instructor.

ESCI-326 Independent Study in Earth Science, 3 cr. Research in the geological sciences, oceanography, meteorology, or astronomy under the guidance of a faculty member. *Prereq.:* nine hours in earth science and consent of instructor.

ESCI-328 Marine Geology, 3 cr. Origin and development of the ocean basins and their margins, waves and currents, coastal processes, sedimentation, and stratigraphy. Lecture 3 hours. *Prereq.:* ESCI-121 or ESCI-211.

ESCI-329 Soil Science, 3 cr. Physical and chemical factors in soil formation; composition of soil materials. Relation of soils to parent material; soil classifications, soil as a resource. Lecture 3 hours. *Prereq.:* ESCI-121, ESCI-211, or consent of instructor.

ESCI-330 Structural Geology, 4 cr. Spatial and stress-strain relationships of rock deformation, genetic and descriptive aspects of folds, faults, joints, etc., structures related to magmatism and metamorphism, polyphase deformation, and geophysical methods of structural geology, diapirs, cleavage and schistosity, impact structures, tectonites, and petrofabric diagrams. Lecture 3 hours, lab 2 hours. *Prereq.:* ESCI-211, ESCI-212, and PHYS-201.

ESCI-331 Geological Structures and Map Interpretation, 4 cr. Determination of the attitude and thickness of inclined strata and their bearing on outcrop patterns; preparation of geological maps from given field data; and interpretations of aerial photos, topographic maps, and geological maps depicting folds, faults, unconformities, and intrusive bodies; preparation of geological cross sections. Lecture 2 hours, lab 3 hours. *Prereq.:* ESCI-211.

ESCI-333 Internship in Earth Science, 3cr. Field experience at an off-campus site. Student will work a minimum of 150 hours with an earth science agency or organization. Evaluation will be based in part on the student's creation of a tangible product. Details of internship will be arranged by the student, faculty advisor, and site supervisor. *Prereq.:* 30 undergraduate or fifteen graduate credit hours in Earth Science and consent of instructor and department coordinator.

ESCI-335 Meteorology, 4 cr. Introduction to the processes at work in the earth's atmosphere and the physical laws that control them; horizontal and vertical circulations, atmospheric stability, radiation balance, precipitation, air masses, frontogenesis, and severe weather. Laboratory work involves extensive use of maps and charts. Lecture 3 hours, lab 2 hours. *Prereq.:* PHYS-201.

ESCI-337 Principles of Hydrogeology, 4 cr. Introduction to the theory and principles of groundwater flow as well as streamflow. Topics include the hydrologic equation, evapotranspiration, well drilling and testing, porosity and permeability, Darcy's law, confined and unconfined aquifers, flow-nets, geology of groundwater occurrence, water table maps, geophysical exploration methods, well logs, streamflow and hydrographs. Lecture 3 hours; lab 2 hours. *Prereq.:* ESCI-211 and MATH-106.

ESCI-338 Petrography of Fine-Grained Sediments, 3 cr. Mineralogical and chemical analysis of shale, clay, glacial till, soil and related sedimentary materials using x-ray diffraction and atomic absorption techniques. Analyses are both qualitative and quantitative in nature. Lecture 2 hours, lab 2 hours. *Prereq.:* ESCI-206 or ESCI-311.

ESCI-339 Field Hydrogeology, 4 cr. Field techniques of measuring infiltration, soil moisture, aquifer permeability and hydraulic conductivity. Practice in conducting geophysical surveys and drilling, logging, and developing ground water wells. Methods of sampling water for chemical analysis. Visits to drilling, monitoring, and waste management sites. Methods of recording, analyzing, mapping, and reporting field data. Lecture 2 hours, lab 3 hours. *Prereq.:* ESCI-337.

ESCI-340 Introduction to Geotechnical Engineering, 3 cr. Introduction to basic concepts of design and engineering of earth materials. Soil and rock mechanics, interaction of soil and rock with water, effective stress, failure models, rock and soil mass behavior, and materials testing. Especially useful for those interested in environmental and engineering aspects of geology. Lecture 3 hours. *Prereq.:* MATH-104 or MATH-106 and eight credit hours in Earth Science at the 200-level or higher.

ESCI-401 Environmental Stability — Lake Michigan, 3 cr. Origin and development of Lake Michigan; paleolimnology; the eutrophication process and its relationship to human and industrial wastes. Emphasis placed on field and laboratory techniques. Lecture 2 hours, lab 1 hour. *Prereq.:* graduate standing, ESCI-320, and advanced standing in physical or biological sciences or consent of instructor.

ESCI-406 Aqueous Geochemistry, 3 cr. Introduction to aqueous geochemistry, including chemical thermodynamics, carbonate solubility, organic compounds in natural waters, silicate equilibria, redox equilibria, and trace elements. Methods of evaluation and display of water quality data. Lecture 3 hours. *Prereq.:* Graduate standing, ESCI-407, and CHEM-212.

ESCI-407 Advanced Hydrogeology, 3 cr. Occurrence, movement, storage, and distribution of ground water; problems pertaining to water quality; sea water intrusion, water pollution and recharge of aquifers. Lecture 2 hours, lab 2 hours.

Prereq.: graduate standing and ESCI-337.

ESCI-408 Advanced Mineralogy and Crystallography, 3 cr. Advanced concepts in mineralogy with reference to crystal chemistry and structural crystallography of some selected mineral groups. Lecture 2 hours, lab 2 hours. *Prereq.:* graduate standing in earth science and ESCI-311.

ESCI-409 Igneous Petrology, 4 cr. Principles and applications of phase equilibrium studies of silicate systems at high temperatures and pressures to petrological problems; theories of igneous differentiation processes with examples from selected localities; laboratory studies of petrographic methods and petrochemical calculations; written and oral student presentations. Lecture 3 hours, lab 2 hours.

Prereq.: graduate standing, ESCI-311, and ESCI-319.

ESCI-411 Clay Mineralogy, 4 cr. Structure, physical and chemical properties, origin, and occurrence of the clay mineral groups; economic importance of clays, identification of clays using x-ray diffraction techniques. Lecture 2 hours, lab 2 hours. *Prereq.:* graduate standing and ESCI-311.

ESCI-415 Plate Tectonics, 3 cr. Earth's interior and configuration of lithospheric plates; plate tectonics in relation to seafloor spreading and continental drift; ridges, trenches, transform faults, island arcs, and rift systems; plate subduction and marginal ocean basins; magma generation, metamorphism and ore deposits at plate boundaries; origin of mountain belts; pre-Mesozoic plate tectonics and growth of continents. Lecture 3 hours. *Prereq.:* graduate standing, ESCI 319, and ESCI-330.

ESCI-416 Applied Hydrology, 3 cr. Water budget and its various components; hydrologic theories, methodologies, and techniques of data analysis used to estimate and/or determine values for each component of the water budget; computer modeling of water budget components is introduced. Lecture 2 hours, lab 2 hours. *Prereq.:* graduate standing and ESCI-337 or consent of instructor.

ESCI-418 Ore Deposits, 4 cr. Origin, composition, and migration of ore-bearing fluids; classification of ore deposits with reference to well-known mining districts, geothermometry, and isotopic studies; metallogenic provinces and epochs; ore microscopy; property evaluation and ore-reserve estimation. Lab studies of ore-gangue samples from representative mines. Lecture 3 hours, lab 2 hours. *Prereq.:* graduate standing, ESCI-331 and ESCI-322.

ESCI-419 Exploration and Geostatistics, 4 cr. Course introduces all areas of mathematical geology and then reviews basic statistics as it applies to geologic data. It then draws on this basis to derive the geostatistical method of estimation. This method is illustrated in theory and practice with real data on computerized mapping system. Lecture 3 hours, lab 2 hours. *Prereq.:* graduate standing, MATH-104. MATH-106 strongly recommended.

ESCI-425 Special Topics in Earth Science (title varies), 3 cr. Selected topics of current research interest. Consult the Schedule of Classes for specific topics. Lecture 3 hours.

Prereq.: graduate standing in earth science.

ESCI-498 Master's Research Project In Earth Science, 3 cr. Directed research, analysis, and presentation of a research paper on an important topic in geology/earth science. The written research paper must be orally defended. This course is required for students who choose to fulfill graduation requirements for an M.S. in Earth Science under the "Departmental Research Paper" option (Option 2). *Prereq.:* Candidacy in Earth Science.

ESCI-499 Master's Thesis In Earth Science, 6 cr. Guidance of students conducting research and writing a thesis to fulfill the requirements for the degree of Master of Science in Earth Science (Option 1). *Prereq.:* Candidacy in Earth Science.

Oceanography

ESCI-OC-324 Oceanography, 4 cr. Ocean boundaries and bottom topography. Origin and evolution of ocean basins. Nature and characteristics of coastal and marine sediments. Gathering of oceanographic data and development of the marine sciences. Lecture 2 hours; lab 3 hours. *Prereq.:* ESCI-121 or 211, and ESCI-207.

ESCI-OC-334 Coastal Marine Research, 4 cr. Study of marine coastal processes. Field trip to Atlantic, Pacific, or Mediterranean coast. Preceded and followed by on-campus meetings. Field experience 4 hours, lecture 1 hour, lab 1 hour. *Prereq.:* advanced standing in the sciences and permission of the instructor.

ESCI-OC-335 Ocean Resources, 3 cr. Comprehensive study of the exploration, exploitation and management of the ocean resources. Lecture 3 hours. *Prereq.:* ESCI-121 or 211, and ESCI-207.

ECONOMICS

Diane L. Stehman, Ph.D., Associate Professor, Chair
Daniel J. Bergan, Ph.D., Associate Professor
Audie R. Brewton, Ph.D., Associate Professor
Thomas E. Collum, M.A., Assistant Professor
Lewis Freiberg, Ph.D., Professor
Edward F. Stuart, Ph.D., Professor

The Economics program offers courses of study leading to the degree of Bachelor of Arts.

Economics is the social science that analyzes the basic problem of scarce resources and the necessity of choice. This basic problem is faced by businesses, households, governments and nations. Economics courses focus on how markets operate and how policies and choices affect market activity. Economics provides useful insights into problems of recession and inflation, international economic relations, environmental issues, economic growth, public policy, financial markets, and labor market developments among others. A major in economics provides an excellent preparation for careers in business and public organizations. Economics majors are also well prepared for graduate study in business

and law. Further graduate study in Economics is necessary for careers in university teaching and other professions requiring masters or doctoral degrees.

The introductory courses (ECON-215 and ECON-217) are designed to provide basic knowledge and to serve as a foundation for other courses in economics and business. A concentration in economics provides an excellent background for students who wish to pursue careers in business and management, law, government or teaching. The prerequisite for a major in economics is satisfactory completion of three years or equivalent of high school mathematics. Students planning to do graduate work in economics are urged to complete at least two years of college mathematics, including differential and integral calculus. Students not planning study beyond the baccalaureate level should complete at least one year of college level mathematics. Economics majors and minors are also encouraged to take quantitative economics courses beyond the minimum requirements. Majors are strongly encouraged to take ECON-303 and ECON-304 prior to enrolling in upper division electives. All courses in the economics program carry three hours of credit.

UNDERGRADUATE PROGRAMS

Major in Economics for the Bachelor of Arts Degree

Required Courses:

ECON-215 Principles of Macroeconomics	3 cr.
ECON-217 Principles of Microeconomics	3 cr.
ECON-303 Intermediate Macroeconomic Theory	3 cr.
ECON-304 Intermediate Microeconomic Theory	3 cr.
ECON-220 Business and Economic Statistics I	3 cr.
Electives (any five 300-level Economic courses)	15 cr.
Total	30 cr.

Minor in Economics (18 cr. hrs.)

Required Courses:

ECON-215 Principles of Macroeconomics	3 cr.
ECON-217 Principles of Microeconomics	3 cr.
ECON-220 Business and Economic Statistics I	3 cr.
Electives (any three 300-level Economics courses)	9 cr.
Total	18 cr.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

COURSE OFFERINGS

ECON-215 Principles of Macroeconomics, 3 cr. Elementary aggregate economics. Among the topics covered are economic instability, countercyclical economic policies, money, the

banking system, government economic activity, fiscal policy, monetary policy, and national income theory. *Prereq.:* MATH-091 with a grade of "C" or MATH-102 placement.

ECON-217 Principles of Microeconomics, 3 cr. Among the topics covered are supply, demand, prices, the working of markets, the markets for labor and for other factors of production, distribution of the product and contemporary economic problems. *Prereq.:* MATH-091 with a grade of "C" or MATH-102 placement.

ECON-220 Business and Economic Statistics I, 3 cr. Introduction to the principal methods of statistical analysis as applied to business and economic problems. Topics covered include descriptive statistics, introductory probability and probability distributions, statistical estimation, hypothesis testing, and regression and correlation analysis with computer applications. *Prereq.:* MATH-110.

ECON-302 Economic Development, 3 cr. Theoretical analysis of factors underlying economic development with reference to newly developing nations. Consideration of policy issues concerning attempts to accelerate economic growth. *Prereq.:* ECON-215.

ECON-303 Intermediate Macroeconomic Theory, 3 cr. Consumption and investment theory, the definitions and determination of national income, employment and the price level. Also considered are the economic effects of fiscal and monetary policy. *Prereq.:* ECON-215, ECON-217, MATH-110 or MATH-106 or MATH-104.

ECON-304 Intermediate Microeconomic Theory, 3 cr. A systematic study of the role of the price system in organizing economic activity and an evaluation of its effectiveness; price determination and resource allocation under competition, monopoly, oligopoly and monopolistic competition; theories of demand, cost, partial, and general equilibrium. *Prereq.:* ECON-215, ECON-217, MATH-110 or MATH-106 or MATH-104.

ECON-306 Labor Economics, 3 cr. Analysis of supply and demand for labor, the determination of wage rates, employment, working hours and labor force participation; with emphasis on the effects of unionism and government activities on these areas. *Prereq.:* ECON-217 or consent of instructor.

ECON-307 Money and Banking, 3 cr. The nature and functions of money and the role of the monetary sector in the determination of income and employment with particular attention on the institutional framework, money markets, commercial banking, deposit expansion, the Federal Reserve System, and monetary policy and its instruments. *Prereq.:* ECON-215 and ECON-217.

ECON-308 Comparative Economic Systems, 3 cr. Analysis of the structure, institutions, and performance of alternative economic systems: capitalism, socialism, communism. Selected countries are studied as examples of each system. *Prereq.:* ECON-215 or ECON-217 or consent of instructor.

ECON-309 Public Finance, 3 cr. An investigation of the economic effects of governmental activities. The major types of taxes and expenditure proposals are considered. In addition, intergovernmental fiscal relations and fiscal policy are discussed. The course will emphasize, but not be restricted to American fiscal institutions. *Prereq.:* ECON-215 and ECON-217.

ECON-310 Business and Economic Statistics II, 3 cr.

This course is a continuation of ECON-305. Topics to be covered include analysis of variance, multiple regression and correlation, time series analysis, nonparametric tests, and decision theory with computer applications. *Prereq.:* ECON-220.

ECON-312 Mathematical Economics, 3 cr. Conventional macro- and microeconomic theories are set out in mathematical form utilizing algebra and calculus. Topics to be covered include sets, functions, matrices, differential and integral calculus and optimization. *Prereq.:* ECON-215, ECON-217, and MATH-104 or MATH-106 or MATH-110.

ECON-313 Economic History of Europe, 3 cr. Development of the modern economic systems and institutions of Europe from their late medieval and Renaissance beginnings; the revival of trade, the growth of towns, the Commercial Revolution, the development of new systems of economic thought to support capitalism, the Industrial Revolution, the rise of new economic forms such as socialism, modified capitalism, and "mixed" economies in the twentieth century. *Prereq.:* ECON-215 or ECON-217.

ECON-314 The Development of Economic Thought, 3 cr. Historical survey of the major streams of economic thought including classical, Marxian, institutionalist, neoclassical, radical and monetarist thought. The course covers the origins, methods and validity of economic theories. *Prereq.:* ECON-215 and ECON-217.

ECON-315 American Capitalism, 3 cr. Contemporary controversial interpretations of American capitalism; the course centers around ideas of laissez-faire, government regulation and government-business relations; analysis of private property, competition, free enterprise; views of conservatives, liberals and radicals are considered, and a critical examination of recent reformulations of the capitalist system is undertaken. *Prereq.:* ECON-215 or ECON-217 or consent of instructor.

ECON-316 Independent Study in Economics, 3 cr. Intensive study of special topics of economics; faculty guidance. *Prereq.:* consent of instructor.

ECON-318 Introduction to Econometrics and Forecasting, 3 cr. Introduction to the methods by which economic theories are tested with emphasis on applications. Topics include bivariate and multiple regression techniques, hypothesis testing, and violation of the common assumptions. Computer usage. *Prereq.:* ECON-220 and MATH-104 or MATH-106 or equivalent.

ECON-319 Current Economic Problems, 3 cr. Analysis of a contemporary domestic or international issue. Consult the Schedule of Classes for specific topics. *Prereq.:* Varies with topic.

ECON-322 International Economics, 3 cr. Introduction of the fundamentals of international trade theory; theoretical, institutional and historical aspects of international economic relations are considered, including foreign exchange and balance of payment problems, tariffs, quotas, and U.S. commercial policies. *Prereq.:* ECON-215 or ECON-217 or consent of instructor.

ECON-323 Economic Development of East Asia, 3 cr. Analysis of factors underlying economic development of nations in East Asia with a focus on China and Japan but

including brief consideration of other areas such as Korea, Taiwan, the Philippines, and selected Southeast Asian Nations.

Prereq.: ECON-215 and ECON-217 or consent of instructor.

ECON-331 American Economic History, 3 cr. Survey of American economic history from the colonial period to the present; controversial issues and interpretations in American history. *Prereq.:* ECON-215 or ECON-217.

ECON-332 Industrial Organization, 3 cr. Analysis of the competitive structure of industries and the major determinants of industrial organization such as economies of scale, mergers, vertical integration, advertising, and their effects on competitive firm behavior. Examination of the economic foundations and effects of government policies to regulate monopoly. *Prereq.:* ECON-217 or consent of instructor.

ECON-333 Urban Economics, 3 cr. Presentations of fundamental economic tools applicable to urban problems; identification of the economic causes of these problems and analysis of policies designed to correct them. *Prereq.:* ECON-215 and ECON-217.

ECON-334 Cost-Benefit Analysis, 3 cr. Alternative economic policies resulting from weighing the merits of spending public expenditures on various public projects. A systematic approach to the evaluation of individual projects in the selection of the best project to accomplish a given purpose, and in the establishment of priority order among the projects competing for limited funds. *Prereq.:* ECON-217.

ECON-335 Economics of Transportation, 3 cr. Demand for and costs of transportation. Urban and interurban markets for transport of people and goods. Regulation, deregulation, and public policy. *Prereq.:* ECON-215, ECON-217, ECON-220.

ECON-340 Managerial Economics, 3 cr. The application of economic theory to the analysis of business decision-making. Topics include the theory of production, costs, pricing, and capital budgeting. Specific tools such as constrained maximization and regression analysis are applied in a case approach to the estimation and forecasting of revenues and costs, and to the preparation of budget forecasts. *Prereq.:* ECON-220, ECON-304 and MATH-104.

ECON-401 Fundamentals of Business Economics, 4 cr. Provides knowledge of microeconomic and macroeconomic theory necessary for advanced business analysis. *Prereq.:* Enrollment in MBA program.

ECON-419 Economic Analysis for Managers, 3 cr. This course is an advanced introduction to the application of economic principles and methodologies within the decision-making process of the firm. It cultivates the ability to develop constrained maximization and minimization analyses and to apply those analyses to managerial problems of resource allocation, budgeting and forecasting. *Prereq.:* Mathematical requirements of the MBA program.

ENGLISH

Gary H. Brodsky, Ph.D., Associate Professor, Chair
 Timothy P. Barnett, Ph.D., Associate Professor
 Thomas J. Bracken, M.A., Assistant Professor
 Debra Bruce-Kinnebrew, M.F.A., Professor
 Vicki Byard, Ph.D., Associate Professor
 Bradley Greenburg, Ph.D., Assistant Professor
 Thomas J. Hoberg, Ph.D., Professor
 Sandra Hunt, Ph.D., Associate Professor
 Julie H. Kim, Ph.D., Associate Professor
 Timothy R. Libretti, Ph.D., Associate Professor
 Kristen L. Over, Ph.D., Assistant Professor
 Timothy H. Scherman, Ph.D., Associate Professor
 Christopher L. Schroeder, Ph.D., Assistant Professor
 Harry S. White, Ph.D., Professor

The study of English is designed to help students prepare themselves for a variety of professions and careers where individual talents are valued. It enables students to improve their writing skills, their articulation and their abilities in analytical reading—all valuable accomplishments. The study of literature refines one's sensibilities, expands one's outlook, and stimulates one's imagination. It is a humanizing activity which helps one discover one's self and one's place in the world.

Required for graduation: Students must complete a minimum of 42 semester hours at the 300 level.

UNDERGRADUATE PROGRAMS

Major in English for the Bachelor of Arts Degree

Prerequisites: ENGL-101 AND ENGL-102 or equivalent. Note: No more than 15 hours may be transferred into the major in English.

Required course: ENGL-345 Practical Criticism

Core Courses: Choose 12 hours from the courses listed below (one major author required):

- ENGL-221 English Literature: Beginnings to c. 1750
- ENGL-222 English Literature: 1750 to Present
- ENGL-218 American Literature: Beginnings to 1865
- ENGL-219 American Literature: 1865 to Present
- ENGL-330 Shakespeare: Comedies and Romances
- ENGL-331 Shakespeare: Tragedies
- ENGL-314 Chaucer and His Age
- ENGL-329 Milton

Note: Students may choose only 1 major author course to fulfill Core Course requirements, but they may apply other major author courses to their Free Electives. Students should also be advised that there is a limit of five 200-level courses which may be applied to the English major, so they might want to take a 300-level major author course to fulfill core course requirements and save a 200-level course for directed or free electives.

Directed Electives: Choose 15 hours from the 4 categories below, with no more than 9 hours from any one category:

ENGLISH LITERATURE

- ENGL-307 Medieval Literature: Arthurian Legend
- ENGL-308 English Literature From Beowulf to Malory
- ENGL-321 Literature of the Romantic Movement
- ENGL-323 Shaw and Modern British Drama
- ENGL-328 17th Century Literature
- ENGL-341 Restoration & 18th Century Literature I
- ENGL-342 Restoration & 18th Century Literature II
- ENGL-348 Prose And Poetry of the Victorian Age
- ENGL-350 Victorian Novel
- ENGL-378 20th Century Fiction I
- ENGL-379 20th Century Fiction II

AMERICAN LITERATURE

- ENGL-312 Literature of Colonial Times
- ENGL-313 American Literary Renaissance: 1830- 1860
- ENGL-318 Readings in American Literature
- ENGL-322 American Short Story
- ENGL-361 Development of the American Novel
- ENGL-368 American Realism
- ENGL-378 20th Century Fiction I
- ENGL-379 20th Century Fiction II
- ENGL-380 Multi-Cultural Literature in America
- ENGL-381 African-American Literature
- ENGL-389 Contemporary Poetry

INTERNATIONAL LITERATURE

- ENGL-300 Russian Literature
- ENGL-302 Love in Western Literature
- ENGL-324 Romantic Novel
- ENGL-333 Mythological Bkgrds. In English & American Lit.
- ENGL-334 Biblical Bkgrds. In English & American Lit.
- ENGL-337 Nobel Laureates
- ENGL-365 West Indian Literature
- ENGL-370 Folklore and the Fairy Tale
- ENGL-371 Studies in Women's Literature
- ENGL-373 Yiddish Literature in Translation

WRITING

- ENGL-200 Writing in Context
- ENGL-235 Introduction to Creative Writing I
- ENGL-236 Introduction to Creative Writing II
- ENGL-335 Written Communication for Business
- ENGL-376 Advanced Composition
- ENGL-377 Argumentative Prose
- ENGL-384/385 Creative Writing: Poetry I and II
- ENGL-386/387 Creative Writing: Fiction I and II

Free Electives: Choose 6 hours from any 200 or 300 literature or writing course offered by the department, with the exception of Gen Ed courses (ENGL 201, 202, or 203),

Total	36 cr.
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Note: While students may not take more than 9 hours under any one category of directed electives, they may take 6 hours of free electives from any category. Thus it is possible for students to create their own concentration of 15 hours in one category, such as 15 hours in Writing or American Literature (9 hours of directed electives + 6 hours of free electives).

Major in English/Secondary Education for the Bachelor of Arts Degree

See Dr. Timothy H. Scherman, Advisor, CLS-2002

Teachers of English in secondary schools are typically required to teach a broad language arts curriculum. This interdisciplinary program combines literature, linguistics, reading, composition, and speech, providing excellent preparation for classroom teaching.

In order to meet the language arts/humanities requirements for certification, students are required to take ENGL-101 Writing I, ENGL-102 Writing II, SPCH-COMM-101 Foundations of Communication.

NOTE: The required professional education courses must be completed in addition to the requirements listed below. Refer to the Secondary Education section of this catalog for additional information.

- No more than 15 hours may be transferred into the major in English.
- No more than 15 hours at the 200 level may count towards fulfilling the major requirements.

Requirements

American Literature 6 credits

ENGL-218 American Literature: Beginnings to 1865
 ENGL-219 American Literature: 1865 to Present

English Literature 6 credits

ENGL-221 English Literature: Beginnings to c. 1750
 ENGL-222 English Literature: c. 1750 to Present

Criticism 3 credits

ENGL-345 Practical Criticism

Shakespeare 3 credits

ENGL-330 Shakespeare: Comedies and Romances **or**
 ENGL-331 Shakespeare: Tragedies

Diverse Literature 9 credits

ENGL-371 Studies in Women's Literature **or**
 ENGL-318N American Women Writers

of the 19th Century **or**
 Approved Equivalent

and

ENGL-380 Multicultural Literature **or**
 ENGL-381 African American Literature **or**
 Approved Equivalent

and

ENGL-390 The Young Adult Novel

Composition 3 credits

ENGL-376 Advanced Composition **or**
 ENGL-377 Argumentative Prose

Three Electives in Literature at the 300-level 9 credits

Linguistics 6 credits

LING-201 Intro to General Linguistics
 LING-340 Teaching English as a Second Language:
 Practices and Procedures

Other Required Courses 6 credits

SPCH-MASS-265 Mass Media and Society
 TED-SCED-315 Teaching Writing in Junior
 and Senior High School

**Total 51 cr.
 (18 cr. hrs.)**

Minor in English:

Required Courses:

Three courses selected from the courses listed below: 9 cr.
 ENGL-218 American Literature: Beginnings to 1865
 ENGL-219 American Literature: 1865 to Present
 ENGL-221 English Literature: Beginnings to c. 1750
 ENGL-222 English Literature: c. 1750 to Present
 Electives (nine credit hours in literature at the 300-level) 9 cr.
Total 18 cr.

NOTE: No more than nine transfer credit hours may be counted toward the minor in English.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements. See Dr. T. Hoberg, Advisor.

GRADUATE PROGRAM

Master of Arts in English

See Dr. Bradley M. Greenburg, Advisor, CLS-2008

The graduate program in English is designed to provide advanced study in English literature and composition. It provides for personal development and for professional advancement, particularly in teaching, editorial work, journalism, publishing, writing and research. The program also prepares students for advanced studies leading to the Ph.D.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Literature Track:

To be admitted to the MA program in English, Literature Track, students must have completed a minimum of 30 credit hours of undergraduate work in composition and literature, including courses in Literary Criticism, Shakespeare, and Chaucer. (History of the English Language may be substituted for Chaucer.)

Composition Track:

To be admitted to the MA program in English, Composition Track, a candidate must have a BA in English, English Education, or a related field subject to the approval of the Graduate Advisor in English.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. **Be sure to consult with your program advisor before registering for any 300-level course.** This policy applies to all students entering graduate degree programs beginning with Fall 1997.

The graduate program requires 33 credit hours of coursework in literature (principally English and American), or 33 hours with a concentration in composition. (The specifics of each program are defined below.) Both programs require a final written examination.

Thesis Option:

A scholarly thesis or an original imaginative work, earning six credit hours, may be written by students enrolled in the literature track. Students on the composition track must write a scholarly thesis. After achieving degree candidacy, the student, in consultation with the graduate coordinator, should select a topic and choose an advisor. The approved thesis or imaginative work must be submitted to the graduate coordinator at least one month before a formal defense.

Examination:

When all course work is completed, degree candidates must pass a written examination, which is offered twice a year. A student who fails any part of the examination may take that part a second time. Permission to take it a third time may be granted by the departmental graduate committee after a review of the student's record. Additional course work may be required before a third and final attempt.

Students completing the thesis option will give an oral defense of their thesis before a departmental committee.

Literature Track:

A student's program should be planned with a view to achieving adequate and substantial preparation in English and American literatures, with some work in world literature. Courses in literary criticism, Shakespeare, Chaucer and the history of the English language must be taken in the master's program if they were not taken in the undergraduate program. While the graduate coordinator may recommend more or less work in English and American literatures, the typical program includes the following course work:

Required Courses:

ENGL-430 Studies in Literary Criticism	3 cr.
Two American literature courses at the 400-level, including at least one seminar	6 cr.
Three English literature courses at the 400-level, including at least one seminar	9 cr.
Electives chosen from 300-level (only those approved for graduate degree credit) and/or 400-level courses	9 cr.
ENGL-453 Thesis Seminar in English or Two additional 400-level courses	6 cr.
Total	33 cr.

Composition Track:

Students must complete the Core Curriculum coursework, plus 12 hours of approved electives; maintain good academic standing in the Graduate College; pass a comprehensive exam in the field of Composition; and, submit a thesis in Composition to be approved by a faculty committee appointed by the English Department.

Required Courses:

Core Curriculum	21 cr.
ENGL-433 Seminar in Composition Theory	
ENGL-434 Seminar in Basic Writing Theory	
ENGL-435 Writing Assessment: Theory and Practice	
ENGL-436 Rhetorics of Composition	
ENGL-438 Research in Composition	
ENGL-453 Thesis Seminar in English	
Electives	12 cr.
to be chosen with the approval of the Graduate Advisor in English and in accordance with the following provisions:	
- no more than 6 hours at the 300-level (only those approved for graduate degree credit)	
- no more than 9 hours in one area of study designated below	

Literature: American, British and/or International

Writing: Craft and Genre

(only those approved for graduate degree credit)
ENGL-376 Advanced Composition: Grammar and Style
ENGL-377 Argumentative Prose

Rhetoric: Theory and History

ENGL-430 Studies in Literary Criticism
ENGL-439 Stylistics
SPCH-COMM-322 Modern Rhetoric
SPCH-COMM-404 Communication Theory

Language: Theory and History

LING-401 Fundamentals of Modern Linguistics
LING-410 Techniques for Teaching English
as a Second Language
LING-414 Theories of Teaching English
as a Second Language
LING-446 Sociolinguistics (Prereq: LING-401)

Note: You may get permission from the Graduate Advisor to take other courses not included on this list to meet the elective requirement.

COURSE OFFERINGS

ENGL-101 Writing I, 3 cr. Specialized instruction and practice in beginning writing. Work in usage, grammar, style, paragraphs, and short essays. *Prereq.:* Placement into ENGL-101, or completion of ELP-120 and/or 099 with a grade of "C" or better.

ENGL-102 Writing II, 3 cr. Continuation of practice in composition with emphasis on a variety of forms of writing and longer essays, culminating in the annotated research paper. *Prereq.:* ENGL-101 with a grade of "C" or better or advanced placement.

ENGL-200 Writing In Context, 3 cr. An intensive writing course with special focus to writing within designated thematic contexts. Students will read extensively about topics and write several short papers and one longer one. Students may take the course twice (6 hrs. total) when content changes. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-201 The World of Poetry, 3 cr. A literature course which has three main objectives: 1) to familiarize students with the literary conventions of poetry; 2) to develop in students a critical stance towards literature; and 3) to develop in students an appreciation of both western and non-western cultures as experienced through literature. *Prereq.:* English Placement Score of 7 or 8, a grade of "C" or better in ENGL-101, or consent of instructor.

ENGL-202 The World of Drama, 3 cr. A literature course which has three main objectives: 1) to familiarize students with the literary conventions of drama; 2) to develop in students a critical stance towards literature; and 3) to develop in students an appreciation of both western and non-western cultures as experienced through literature. *Prereq.:* English Placement Score of 7 or 8, a grade of "C" or better in ENGL-101, or consent of instructor.

ENGL-203 World of Fiction, 3 cr. A literature course which has three main objectives: 1) to familiarize students with the literary conventions of the short story and novel genres; 2) to develop in students a critical stance towards literature; and 3) to develop in students an appreciation of both western and non-western cultures as experienced through literature. *Prereq.:* English Placement Score of 7 or 8, a grade of "C" or better in ENGL-101, or consent of instructor.

ENGL-218 American Literature: Beginnings to 1865, 3 cr. A course covering representative writings of the Colonial, Early National, and Romantic periods in American literature, emphasizing both dominant and emergent themes and literary forms in each period. where students will build the necessary cultural literacy for higher-level courses in American Literature. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-219 American Literature: 1865 to Present, 3 cr. A course covering representative writings of the Realist, Modern and Postmodern periods in American literature, emphasizing both dominant and emergent themes and literary forms in each period. Here students will gain a broad background for higher-level courses in postbellum American Literature. *Prereq.:*

ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-220 Introduction to Shakespeare, 3 cr. Introduction to Shakespeare's dramatic art through a careful reading of selected tragedies, histories, comedies, and romances; designed primarily but not exclusively for the non-English major. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-221 English Literature: Beginnings to c. 1750, 3 cr. Representative works in English literature from Beowulf to the middle of the eighteenth century. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-222 English Literature: c. 1750 to Present, 3 cr. Representative works in English literature from the middle of the eighteenth century to the modern era. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-235 Introduction to Creative Writing I, 3 cr. Preliminary study to enable students to develop positive approaches to the craft of writing and to explore techniques of the craft. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-236 Introduction to Creative Writing II, 3 cr. Techniques aimed at exploring disciplines of various forms of writing. *Prereq.:* ENGL-101 with a grade of "C" or better, or consent of instructor.

ENGL-300 Russian Literature: Gogol-Chekhov, 3 cr. Works (primarily novels, novellas and stories) of the major figures in nineteenth-century Russian literature (Turgenev, Tolstoi, Dostoyevski, etc.), relating them to the social, political, and religious issues they touched on. *Prereq.:* a grade of "C" or better in ENGL-101, plus 6 credit hours of 200-level literature courses (Gen. Ed. and/or British/American Lit. Survey courses).

ENGL-301 Independent Study in English, 1 cr. An independent study on the tutorial model, initiated at the student's suggestion to an instructor; course content designed in consultation with the instructor. *Prereq.:* same as ENGL-300.

ENGL-302 Love in Western Literature, 3 cr. The various attitudes toward love, including sexual and family relationships, as depicted in the literature of different ages and cultures with emphasis on the changing social, ethical, and religious context of these views. *Prereq.:* same as ENGL-300.

ENGL-303 Gay and Lesbian Literature, 3 cr. This course explores the impact of gay, lesbian, bisexual, and transgendered literature on contemporary culture. We will take a multicultural approach that recognizes the importance of sexual identity to late twentieth-century fiction and the ways such fiction affects and is affected by art, politics, entertainment, the law, and other notions of identity, such as race, class, and gender. This course will emphasize close reading of fiction, the ability to write clearly and analytically about literature, and a careful analysis of the role literature plays in our everyday lives. *Prereq.:* same as ENGL-300.

ENGL-307 Medieval Studies: The Development of the Arthurian Legend, 3 cr. The legend of King Arthur from allusions in early chronicles, through Welsh folk tales, through the courtly versions of twelfth-century France to the compilation by Sir Thomas Malory. *Prereq.:* same as ENGL-300.

ENGL-308 English Literature from Beowulf to Malory, 3 cr. A survey of English Medieval literature that, in dealing with major works (e.g. *Beowulf*, *The Canterbury Tales*, *Morte D'Arthur*, etc.), situates them in the relevant political and linguistic contexts, as well as the literary context of competing “minor” works and genres. *Prereq.:* same as ENGL-300.

ENGL-312 Literature of Colonial Times, 3 cr. Prose and poetry of the Puritan and Revolutionary eras. *Prereq.:* same as ENGL-300.

ENGL-313 American Literary Renaissance: 1830-1860, 3 cr. Prose and poetry of Hawthorne, Melville, Emerson, Thoreau, Whitman, Dickinson, and others. *Prereq.:* same as ENGL-300.

ENGL-314 Chaucer and His Age, 3 cr. Close study of selected early poems of Chaucer (ballads, envoys, and narratives), to present an introduction to the language and themes of Chaucer's poetry and his age. The major portion of the course will be devoted to a close reading of *The Canterbury Tales* in the original Middle English. *Prereq.:* same as ENGL-300.

ENGL-315 Literature of the English Renaissance, 3 cr. Prose and poetry (not drama) of the English Renaissance in the sixteenth century. *Prereq.:* same as ENGL-300.

ENGL-316 Forms Of Poetry, 3 cr. This course will examine some of the traditional poetic forms—lyric, narrative, and dramatic—which have been used by poets throughout literary history. Readings and discussion will engage students in an analysis of each form—its technical characteristics, its place in literary history, and its relevance to contemporary writers and readers of poetry. Students will write imitations of several poetic forms as well as critical essays about them. *Prereq.:* same as ENGL-300.

ENGL-317 Modern American Drama, 3 cr. Major lines of development of modern American Drama from O'Neill to contemporaries like Albee and Mamet. *Prereq.:* same as ENGL-300.

ENGL-318 Readings in American Literature, 3 cr. An intensive study of selected literary movements, figures, or themes in American literature. Consult the Schedule of Classes for specific topics. *Prereq.:* same as ENGL-300.

ENGL-321 Literature of the Romantic Movement, 3 cr. Poetry and prose from 1780 to 1830 including Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, Lamb, Hazlitt, and DeQuincey. *Prereq.:* same as ENGL-300.

ENGL-322 The American Short Story, 3 cr. The evolution of the American short story as a self-conscious form of literature from Washington Irving to Joyce Carol Oates. The theories of Romanticism, Realism, Naturalism are illustrated. Each student selects one writer of short stories to explore in some depth through an individual report. *Prereq.:* same as ENGL-300.

ENGL-323 Shaw and Modern British Drama, 3 cr. Shaw's development as a playwright as well as significant movements in British drama since the 1890's, including the Irish Renaissance, recent poetic drama, and the “angry young men.” *Prereq.:* same as ENGL-300.

ENGL-324 The Romantic Novel, 3 cr. The nineteenth century novelists from England and the Continent are studied against the great socio-political movements of the age—the French, Russian, and Industrial Revolutions. *Prereq.:* same as ENGL-300.

ENGL-325 Readings in World Literature, 3 cr. Intensive study of fiction and poetry representative of literary movements, historical periods, or thematic concerns. Consult the Schedule of Classes for specific topics. *Prereq.:* same as ENGL-300.

ENGL-328 Seventeenth Century Literature, 3 cr. Studies in seventeenth century literature exclusive of Milton. *Prereq.:* same as ENGL-300.

ENGL-329 Milton, 3 cr. Milton's work and the intellectual milieu of the period. *Prereq.:* same as ENGL-300.

ENGL-330 Shakespeare: Comedies and Romances, 3 cr. Shakespeare's comic writing, from *The Comedy of Errors*, through the romantic comedies and problem comedies to the late romances. *Prereq.:* same as ENGL-300.

ENGL-331 Shakespeare: Tragedies, 3 cr. Shakespeare's tragic works from early experiments in tragedy, e.g., *Romeo and Juliet*, *Richard III*, to the great achievements in tragedy, e.g. *Hamlet*, *Lear*, *Macbeth*. *Prereq.:* same as ENGL-300.

ENGL-332 Elizabethan and Jacobean Drama, 3 cr. Major dramatists, excluding Shakespeare, in Elizabethan and Jacobean drama, 1550 to 1642, including Kyd, Marlowe, Webster, Jonson, Beaumont and Fletcher from the origin of professional and court drama to the closing of the theatres. *Prereq.:* same as ENGL-300.

ENGL-333 Mythological Backgrounds of English and American Literature, 3 cr. Middle-Eastern, Nordic, and Graeco-Roman mythological systems; readings in archetypal interpretation of literature with representative illustrations from fiction, drama, and poetry. *Prereq.:* same as ENGL-300.

ENGL-334 Biblical Backgrounds of English and American Literature, 3 cr. Influence of the Bible, especially the King James version, on the style and content of famous English and American writers. Selected readings from Old and New Testaments and from the writers influenced by them. *Prereq.:* same as ENGL-300.

ENGL-335 Written Communication for Business, 3 cr. Designed primarily for Business and Management majors covering principles and practices of writing required in professional work.

ENGL-337 Nobel Laureates, 3 cr. Nobel prize winners, 1901 to the present. *Prereq.:* same as ENGL-300.

ENGL-338 The Literature of Japan, 3 cr. An introduction to contemporary Japanese literature. *Prereq.:* same as ENGL-300.

ENGL-340 Independent Study in English 2 cr. An independent study on the tutorial model, initiated at the student's suggestion to an instructor; course content designed in consultation with the instructor. *Prereq.:* same as ENGL-300.

ENGL-341 Restoration and Eighteenth Century Literature I, 3 cr. Politics in England leading to the restoration of Charles II; his court; Restoration playwrights; the bawdy Restoration stage and reaction to it; the new sentimental drama; the newspaper and the essay. *Prereq.:* same as ENGL-300.

ENGL-342 Restoration and Eighteenth Century Literature II, 3 cr. Intensive study of contrasts in the Age of Enlightenment; interrelationship of politics and writers; neoclassic literature; beginnings of the novel; eighteenth century criticism and biography. *Prereq.: same as ENGL-300.*

ENGL-345 Practical Criticism, 3 cr. Introduction to some of the more important critical approaches to literature, emphasis on application as well as theory. *Prereq.: same as ENGL-300.*

ENGL-348 Prose and Poetry of the Victorian Age, 3 cr. Selected Victorian poetry, with consideration of the social background of the period (1837-1910). *Prereq.: same as ENGL-300.*

ENGL-350 The Victorian Novel, 3 cr. A study of the development of the novel in England from Dickens to Hardy, seen against the contemporary social and literary background. Theme and technique of the novel, methods of publication, major and minor writers. *Prereq.: same as ENGL-300.*

ENGL-351 The English Novel of the Eighteenth Century, 3 cr. The development of the English novel as a genre in the eighteenth century, including such precursors of the novel as Bunyan, Defoe, Lyly and Behn. *Prereq.: same as ENGL-300.*

ENGL-358 Readings in British Literature, 3 cr. Intensive study of selected literary movements, figures, or themes in British literature; each section carries an identifying title. Consult the Schedule of Classes for specific topics. *Prereq.: same as ENGL-300.*

ENGL-359 Independent Study in English, 3 cr. An independent study on the tutorial model, initiated at the student's suggestion to an instructor; course content designed in consultation with the instructor. *Prereq.: same as ENGL-300.*

ENGL-360 Detective Fiction, 3 cr. Literary and historical study of the detective story—from Poe and Sherlock Holmes—to Hammett and the present. *Prereq.: same as ENGL-300.*

ENGL-361 Development of the American Novel, 3 cr. The novel as a developing form from Charles Brockden Brown to William Faulkner and beyond. *Prereq.: same as ENGL-300.*

ENGL-365 West Indian Literature, 3 cr. Beginning with European response to the discovery of the Caribbean Islands (as evidenced in Shakespeare's *The Tempest*), the course will trace the area's discovery of its own identity as reflected in the works of such writers as Jean Rhys, V.S. Naipaul, Derek Walcott and others. *Prereq.: same as ENGL-300.*

ENGL-368 American Realism, 3 cr. An examination of the literature that reflects the movement from American romanticism to realism and through realism to literary naturalism, approximately 1865-1910. *Prereq.: same as ENGL-300.*

ENGL-370 Folklore and the Fairy Tale, 3 cr. Readings from both traditional and contemporary folktales, including modern adaptations of traditional stories. Emphasis on the similarities in different tales, and the differences in similar ones, with the aim of learning how the same elements pervade the archetypal stories, and how variations in detail bespeak different ethnic and cultural interests and concerns. *Prereq.: same as ENGL-300.*

ENGL-371 Studies in Women's Literature, 3 cr. Literature by or about women; includes writing by women, portrayals of female characters, attitudes toward women, and women's roles; other thematic concerns. *Prereq.: same as ENGL-300.*

ENGL-373 Yiddish Literature in Translation, 3 cr. Yiddish literature and the Yiddish language from its beginning to the present from Eastern Europe and West Germany to the East Side and West Roosevelt Road. *Prereq.: same as ENGL-300.*

ENGL-375 The Essentials of Tutoring Writing, 3 cr. This class considers the larger theoretical debates important to composition studies today and the practical aspects of writing tutorials. Students will read contemporary writing theory and apply this knowledge in work with small groups of undergraduate writers, helping them to create ideas, draft and revise essays, and edit their work. To succeed in this class, students need to be strong writers and collaborators and to have an interest in the practice and politics of writing.

Prereq.: same as ENGL-300.

ENGL-376 Advanced Composition, 3 cr. Interdependence of rhetoric, grammar, logic, semantics, psychology, and criticism in communication of ideas; practice in various types of writing with focus on students' interest; designed for future teachers of composition. *Prereq.: same as ENGL-300.*

ENGL-377 Argumentative Prose, 3 cr. An advanced course in which students will learn to write argumentative essays on a wide range of subjects, using as models for discussion the argumentative prose of professional writers. The course will cover many aspects of argumentative writing, including the study of inductive and deductive reasoning and logical fallacies and the analysis of organizational and stylistic techniques.

Prereq.: same as ENGL-300

ENGL-378 Twentieth Century Fiction I, 3 cr. Development of the modern novel from Conrad to writers of the 1930s and 1940s against a background of historical and literary movements; emphasis on Conrad, James, Joyce, Lawrence, Faulkner, and Hemingway. *Prereq.: same as ENGL-300.*

ENGL-379 Twentieth Century Fiction II, 3 cr. Development of the novel in English in recent decades against a background of historical and literary movements; includes work of West, Greene, Lowry, Durrell, Bellow, Nabokov, Burgess, Barth, Lessing, Murdoch, Mailer, Updike and Pynchon. *Prereq.: same as ENGL-300.*

ENGL-380 Multi-Cultural Literature in America, 3 cr. Designed for future teachers of English, the multi-genre course provides students with an awareness of representative literature from the various ethnic cultures that are a part of American life. *Prereq.: same as ENGL-300.*

ENGL-381 African-American Literature, 3 cr. A survey of African-American Literature in its social, cultural, and political context, beginning with Phyllis Wheatly, continuing through the slave narratives of the pre-Civil War era to the masterpieces of the Harlem Renaissance and the works of contemporary writers, such as James Baldwin, Toni Morrison, Ishmael Reed, Alice Walker, August Wilson, and Gwendolyn Brooks. *Prereq.: same as ENGL-300.*

ENGL-384 Creative Writing: Poetry I, 3 cr. Students write poetry which is discussed and critiqued in class by instructor and students. *Prereq.: same as ENGL-300, plus ENGL-235 or 236, or consent of instructor.*

ENGL-385 Creative Writing: Poetry II, 3 cr. Students write poetry which is discussed and critiqued in class by instructor and students. *Prereq.: same as ENGL-300, plus ENGL-235 or 236, or consent of instructor.*

ENGL-386 Creative Writing: Fiction I, 3 cr. Students write prose fiction which is discussed and critiqued in class by instructor and students. *Prereq.:* same as ENGL-300, plus ENGL-235 or 236, or consent of instructor.

ENGL-387 Creative Writing: Fiction II, 3 cr. Students write prose fiction which is discussed and critiqued in class by instructor and students. *Prereq.:* same as ENGL-300, plus ENGL-235 or 236, or consent of instructor.

ENGL-388 Modern British and American Poetry, 3 cr. Introduction to modern poetry in English: its origins, dominant themes, and characteristic techniques. *Prereq.:* same as ENGL-300.

ENGL-389 Contemporary Poetry, 3 cr. A survey of poetry in English from 1950 to the present. This course will examine the major themes and techniques of poets writing during this period. *Prereq.:* same as ENGL-300.

ENGL-390 Young Adult Novel, 3 cr. Advanced study in literature for young adults, grades 7-10. Evaluation and selection of recent books in the area as well as the history of the genre. *Criteria for selection:* Book lists, indexes, professional literature in the field. Individual work on problem of special interest. *Prereq.:* same as ENGL-300.

ENGL-391 Children's Literature, 3 cr. Preparation for effective teaching of literature in the elementary school; wide reading of books for young children; story selection and story telling; authors and illustrators of children's books; classroom methods of stimulating creative expression; individual and group reading guidance. *Prereq.:* same as ENGL-300.

The following 300-level English courses are eligible for Graduate credit:

ENGL-300 Russian Literature: Gogol-Chekhov
 ENGL-307 Development of the Arthurian Legend
 ENGL-308 From Beowulf to Malory
 ENGL-314 Chaucer and His Age
 ENGL-316 Forms of Poetry
 ENGL-368 American Realism
 ENGL-376 Advanced Composition
 ENGL-377 Argumentative Prose
 ENGL-381 African-American Literature

ENGL-421 The Metaphysical Poets, 3 cr. The metaphysical tradition in seventeenth century poetry and its impact on modern poetry, including works of Donne, Herbert, Crashaw, Vaughan, and Traherne and critical studies of Johnson, Grierson, Eliot, Leavis, Williamson, and others. *Prereq.:* graduate standing, admission to a degree program in English, or written consent of instructor.

ENGL-430 Studies in Literary Criticism, 3 cr. A study of some of the central problems and issues of contemporary criticism, as exemplified by the writings of major theorists. *Prereq.:* same as ENGL-421.

ENGL-431 Bibliography and Research in English, 3 cr. Materials, methods, and tools of literary research; use of libraries; preparation of scholarly papers. *Prereq.:* same as ENGL-421.

ENGL-433 Seminar in Composition Theory, 3 cr. An extensive examination of current composition methodologies with emphasis upon the eclectic needs of the composition student. *Prereq.:* same as ENGL-421.

ENGL-434 Seminar in Basic Writing Theory, 3 cr. A survey of types of students in basic writing classes, a review of placement tests for identifying levels of writing competency, and a careful examination of various basic writing methodologies. *Prereq.:* same as ENGL-421.

ENGL-435 Writing Assessment: Theory and Practice, 3 cr. Theoretical background on evaluating student writing, as well as practical training in how to diagnose and remediate problems with grammar and content at the secondary and college level. *Prereq.:* same as ENGL-421.

ENGL-436 Rhetorics of Composition, 3 cr. This course will provide students with a background in Classical Rhetoric and then examine how the conventions of Classical Rhetoric have been translated or transformed into rhetorics of composition, such as Expressionistic Rhetoric, Cognitive Rhetoric, Epistemic Rhetoric, and Social Construct Rhetoric. *Prereq.:* same as ENGL-421.

ENGL-437 Contemporary Issues in Composition: Revolving Topics This course will explore contemporary issues in composition, with an emphasis on the intersection between theory and practice in writing instruction. Possible topics will include the relationship between technology and writing, multi-culturalism and writing, and critical theory and writing. Consult the Schedule of Classes for specific topic. *Prereq.:* same as ENGL-421.

ENGL-438 Research in Composition, 3 cr. Materials and methods for library research in composition theory; preparation of scholarly work on composition; research designs and measurement techniques for qualitative and quantitative studies in composition. *Prereq.:* same as ENGL-421.

ENGL-439 Stylistics, 3 cr. Examination of the historical relationship of style to rhetoric; techniques for improving prose style; aspects of style as a part of writing evaluation. *Prereq.:* same as ENGL-421.

ENGL-440 Malory, 3 cr. Examination of Sir Thomas Malory's *Morte D'Arthur* concentrating on structure and interpretation, while considering current controversies over authorship and the state of the text; attention to the position of the work in the development of the Arthurian legend and in the context of the fifteenth century. *Prereq.:* same as ENGL-421.

ENGL-441 Seminar in Sixteenth Century Literature, 3 cr. Advanced study of the work of a single author; individual assignments culminating in a term essay; discussions of the investigations. Consult the Schedule of Classes for specific topics. *Prereq.:* same as ENGL-421.

ENGL-442 Seminar in Seventeenth Century Literature, 3 cr. (See ENGL-441 for description.)

ENGL-443 Seminar in Eighteenth Century Literature, 3 cr. (See ENGL-441 for description.)

ENGL-444 Seminar in Romantic Literature, 3 cr. (See ENGL-441 for description.)

ENGL-446 Seminar in Contemporary English Literature, 3 cr. (See ENGL-441 for description.)

ENGL-447 Seminar in Contemporary American Literature, 3 cr. (See ENGL-441 for description.)

ENGL-448 Seminar in Nineteenth Century American Literature, 3 cr. (See ENGL-441 for description.)

ENGL-449 Studies in American Literature, 3 cr. Advanced study of selected American writers. Consult the Schedule of Classes for specific topics. *Prereq.: same as ENGL-421.*

ENGL-450 Studies in English Literature, 3 cr. Advanced study of selected English writers. Consult the Schedule of Classes for specific topics. *Prereq.: same as ENGL-421.*

ENGL-453 Thesis Seminar In English, 6 cr. Guidance of students conducting research and writing a thesis to fulfill requirements for the M.A. in English. *Prereq.: acceptance to master's degree candidacy in English.*

ENGL-454 Seminar in World Literature, 3 cr. Advanced study of a selected writer(s) in World Literature. Consult the Schedule of Classes for specific topics. *Prereq.: same as ENGL-421.*

ENGL-455 Studies in World Literature, 3 cr. Advanced study of selected writers in World literature. Consult the Schedule of Classes for specific topics. *Prereq.: same as ENGL-421.*

ENGL-456 William Blake, 3 cr. Intensive study of the works of Blake, noting the religious, political and social beliefs, opinions and doctrines his works evaluate and challenge. *Prereq.: same as ENGL-421.*

ENGL-457 The Poetry and Prose of Shelley, 3 cr. An intensive study of the poetry and prose works of Shelley in the light of his social, religious and political milieu and with the aid of pertinent scholarship regarding the poet. *Prereq.: same as ENGL-421.*

ENGL-458 Troilus and Criseyde, 3 cr. Study of the development of the legend of Troilus from a brief mention in *The Iliad* through the dramatic treatment in 12th century chronicles and Boccaccio's great romance to Chaucer's major verse 'novel' and Shakespeare's enigmatic drama. *Prereq.: same as ENGL-421.*

ENGL-459 Dante, 3 cr. Study of the poetry (in translation) of the major Italian poet of the Middle Ages and Renaissance concentrating on the Vita Nuova and the Divine Comedy with consideration of the theological, philosophical and cultural sources of Dante's work. *Prereq.: same as ENGL-421.*

ENGL-461 Dostoevski: The Major Works, 3 cr. Dostoevski's major works (such as *Notes from the Underground*, *Crime and Punishment*, *The Idiot*, *The Brothers Karamazov*) in relation to the social, political, and religious issues which concerned the writer. *Prereq.: same as ENGL-421.*

ENGL-469 Seminar in Southern Literature, 3 cr. Intensive reading of twentieth-century Southern literature exclusive of Faulkner with emphasis on the sociological and psychological aspects of the literature as they mirror life in America's South. *Prereq.: same as ENGL-421.*

ENGL-470 Seminar in Faulkner, 3 cr. Intensive reading of the short fiction and novels of William Faulkner with specific attention on his development as a novelist and his place among twentieth century American authors. *Prereq.: same as ENGL-421.*

ENGL-474 Seminar in Byron, 3 cr. Close examination of the poetic canon of Lord Byron. *Prereq.: same as ENGL-421.*

ENGL-475 Seminar in Keats, 3 cr. Close examination of the poetic canon of John Keats. *Prereq.: same as ENGL-421.*

FOREIGN LANGUAGES AND LITERATURES

Vicki Román-Lagunas, Ph.D.,

Associate Professor of Spanish, Chair
 Lucrecia Artalejo, Ph.D., Associate Professor of Spanish
 Denise Cloonan, Ph.D., Associate Professor of Spanish
 John S. Geary, Ph.D., Associate Professor of Spanish
 Dorette Klein, M.A., Assistant Professor of French
 Lucia Lombardi, Ph.D., Assistant Professor of Spanish
 Mary Ellen McGoey, Ph.D., Associate Professor of French
 Angelina Pedroso, LL.D., Associate Professor of Spanish
 Eusebio Rodriguez, Ph.D., Assistant Professor of Spanish
 Esther M. Santana, Ph.D., Assistant Professor of Spanish

Foreign language study perfects communication skills and affords the best means of understanding and appreciating other cultures. Knowledge of a second language also enhances career opportunities since employers are now seeking graduates who have the skills necessary to function in a global economy.

The Department of Foreign Languages and Literatures offers courses leading to a Bachelor of Arts in French or in Spanish. There are minors in French, Korean and Spanish and courses in Chinese, French, German, Italian, Japanese, Korean, Polish, Russian, and Spanish. The Foreign Languages and Literatures website may be visited at www.neiu.edu/~fldept/main3.htm or E-mail the Department at foreign-languages@neiu.edu. The Foreign Language Lab provides the latest in multimedia instruction via audio, video, cd-rom, satellite, Internet, and computers. You may visit the Foreign Language Lab website at www.neiu.edu/~flanglab.

The Department of Foreign Languages and Literatures offers a variety of options to students in its major and minor programs. Brief descriptions of these options and related coursework are found below. The Department encourages students to request an interview with a departmental advisor during the first year of residence to discuss these options.

Students who demonstrate academic excellence in foreign languages and literatures are eligible for nomination to two national honor societies: Pi Delta Phi (National French Honor Society) and Sigma Delta Pi (National Spanish Honor Society). Achievement in foreign languages and literatures is also recognized through departmental scholarships and awards.

Students majoring or minoring in foreign languages and literatures are encouraged to take advantage of study abroad opportunities. Summer programs in Canada and Mexico are available through the Department. A variety of other study abroad options can be pursued through Northeastern's Office of International Programs. Since study abroad needs to be carefully planned, interested students should see a departmental advisor for complete details early in their residence.

Entering freshmen and transfer students may be awarded up to six hours college credit in French or Spanish. In order to qualify, a student must take a placement test before registering for a foreign language course at Northeastern. Full details are available in the departmental office.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

UNDERGRADUATE PROGRAMS

Students who wish to major in French and/or Spanish should contact the Department and declare the major during their first term of enrollment.

Major in French for the Bachelor of Arts Degree

Required Courses:

FL-FREN-220	French Conversation I	3 cr.
FL-FREN-221	French Grammar and Composition I ...	3 cr.
FL-FREN-222	French Conversation II	3 cr.
FL-FREN-223	French Grammar and Composition II ..	3 cr.
FL-FREN-300	Introduction to French Civilization	3 cr.
FL-FREN-320	Introduction to French Literature	3 cr.
Electives (200-level or above)		15 cr.
Total		33 cr.

Major in Spanish for the Bachelor of Arts Degree

Required Courses: For non-heritage learner of Spanish

FL-SPAN-220	Spanish Conversation I	3 cr.
FL-SPAN-224	Intensive Reading of Spanish	3 cr.
FL-SPAN-230	Spanish Conversation II	3 cr.
FL-SPAN-240	Extensive Reading in Spanish	3 cr.
FL-SPAN-312	Spanish Conversation III	3 cr.
FL-SPAN-317	Intensive Writing in Spanish	3 cr.
FL-SPAN-329	Introduction to Spanish-American and Spanish Literature	3 cr.
FL-SPAN-331	Hispanic World Cultures	3 cr.
Electives (200-level or above)		9 cr.
Total		33 cr.

Required Courses: For heritage learners of Spanish

FL-SPAN-224	Intensive Reading of Spanish	3 cr.
FL-SPAN-228	Composition for the Spanish-Speaking I	3 cr.
FL-SPAN-240	Extensive Reading in Spanish	3 cr.
FL-SPAN-250	Composition for the Spanish-Speaking II	3 cr.
FL-SPAN-317	Intensive Writing in Spanish	3 cr.
FL-SPAN-329	Introduction to Spanish-American and Spanish Literature	3 cr.
FL-SPAN-331	Hispanic World Cultures	3 cr.
Electives (200-level or above)		12 cr.
Total		33 cr.

Spanish Secondary Education Option:

Students must complete FL-SPAN-319, Applied Spanish Linguistics, FL-302, Introduction to Teaching Foreign Languages and FL-300, Foreign Language Clinical Experience in the Secondary School. FL-300 and Methods of Teaching in the Secondary School (TED-303) should be taken concurrently.

Further certification requirements are listed in the Secondary Education section of this catalog.

Computer Literacy/Assessment Portfolio Requirement

All Foreign Languages and Literatures majors must fulfill the Computer Literacy Requirement and submit an assessment portfolio of their best work. Further details are available in the Department Office, CLS 2040.

Minors in French, Korean and Spanish

A minor consists of 21 credit hours to be selected in consultation with a departmental advisor.

Students in Early Childhood and Elementary Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

GRADUATE PROGRAM

Master of Arts in Spanish

General Information:

Under a cooperative agreement between Roosevelt University and Northeastern Illinois University, Northeastern students may continue studies leading to a Master of Arts degree in Spanish awarded by Roosevelt University. A maximum of 12 credit hours from Northeastern chosen in consultation with the departmental advisor will be accepted toward this degree. Students must apply to and be accepted by Roosevelt University, and all remaining credit hours must be completed there.

Admission to the Program:

All applicants must meet the admission requirements of the Graduate Division of Roosevelt University. Northeastern Illinois University students wishing to apply for admission to this program should obtain application forms and other pertinent information from the departmental office at Northeastern.

COURSE OFFERINGS

FL-300 Foreign Language Clinical Experience in the Secondary School, 3 cr. Supervised direct involvement in the instructional process for students taking the academic major methods course; four hours of direct involvement in the instructional process; four hours of clinical experience per week. *Prereq.:* must be taken concurrently with academic major methods course or consent of instructor.

FL-302 Introduction to Teaching Foreign Languages, 3 cr. The nature of language and language-learning processes; demonstration of specific organizational patterns and teaching methods in keeping with these; the changing status of foreign language teaching; and the importance of language teaching in an interdependent world. Implications for foreign language teaching of recent developments in linguistics, psychology, psycholinguistics, curriculum, teaching materials and technology. Emphasis on designing, presenting and evaluating specific classroom procedures in the linguistically oriented teaching of the communicative competence skills. *Prereq.:* Completion of 9 credit hours beyond the basic program in major field or consent of instructor.

Arabic

FL-ARAB-101 Arabic I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.
FL-ARAB-102 Arabic II, 3 cr. Continuation of FL-ARAB-101. *Prereq.:* FL-ARAB-101 or equivalent.

Chinese

FL-CHIN-101 Chinese I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.
FL-CHIN-102 Chinese II, 3 cr. Continuation of FL-CHIN-101. *Prereq.:* FL-CHIN-101 or equivalent.
FL-CHIN-103 Chinese III, 3 cr. Continuation of FL-CHIN-102. *Prereq.:* FL-CHIN-102 or equivalent.

French

FL-FREN-101 French I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.
FL-FREN-102 French II, 3 cr. Continuation of FL-FREN-101. *Prereq.:* FL-FREN-101 or equivalent.
FL-FREN-103 French III, 3 cr. Continuation of FL-FREN-102. *Prereq.:* FL-FREN-102 or equivalent.
FL-FREN-205 French Film, 3 cr. Explores the successive historical, political, social, and aesthetic climates of modern France and francophone countries through the study of film. Conducted in English.
FL-FREN-210 Reading Modern French, 3 cr. Practice in reading modern texts of current interest and moderate difficulty. *Prereq.:* FL-FREN-103 or consent of instructor.
FL-FREN-220 French Conversation I, 3 cr. Development of oral-aural communication skills with emphasis on everyday situations. Conducted in French. *Prereq.:* FL-FREN-103 or consent of instructor.
FL-FREN-221 French Grammar and Composition I, 3 cr. Overview of grammar with emphasis on writing skills. *Prereq.:* FL-FREN-103 or consent of instructor.
FL-FREN-222 French Conversation II, 3 cr. Continuation of FL-FREN-220. *Prereq.:* FL-FREN-220.
FL-FREN-223 French Grammar and Composition II, 3 cr. Continuation of FL-FREN-221. *Prereq.:* FL-FREN-221.
FL-FREN-230 French Phonetics, 3 cr. Presentation, classification, and analysis of the sounds of the French language with special emphasis on techniques and drills leading to habits of correct pronunciation. Conducted in French. *Prereq.:* consent of instructor.

FL-FREN-300 Introduction to French Civilization, 3 cr. French civilization and culture with emphasis on contemporary France. Conducted in French. *Prereq.:* FL-FREN-223.

FL-FREN-313 French Grammar and Stylistics, 3 cr. Identification, analysis, and use of French structure; extensive exercises in grammatical and logical analysis. Conducted in French. *Prereq.:* FL-FREN-223.

FL-FREN-315 Applied French Linguistics, 3 cr. A systematic comparison of French and English. Application of teaching techniques related to modern theories of language learning. Required for secondary school teacher certification. *Prereq.:* twenty-one credit hours in French at the 200 and/or 300-level.

FL-FREN-320 Introduction to French Literature, 3 cr. Outline of French literature; outstanding authors and their works from the Middle Ages to the present. Conducted in French. *Prereq.:* FL-FREN-223.

FL-FREN-321 Seventeenth Century French Literature, 3 cr. Study of the principal philosophical and literary movements of French classicism. Conducted in French. *Prereq.:* FL-FREN-320 or consent of instructor.

FL-FREN-322 Eighteenth Century French Literature, 3 cr. Study of representative works of playwrights, philosophers, and novelists of Age of Enlightenment. Conducted in French. *Prereq.:* FL-FREN-320 or consent of instructor.

FL-FREN-323 Nineteenth Century French Literature, 3 cr. Overview of novels, poetry, and plays of major authors from romanticism through symbolism. Conducted in French. *Prereq.:* FL-FREN-320 or consent of instructor.

FL-FREN-324 Twentieth Century French Literature, 3 cr. Survey of the principal currents in French literature since the turn of the century. Conducted in French. *Prereq.:* FL-FREN-320 or consent of the instructor.

FL-FREN-350 Independent Study in French, 3 cr. Project or research on a special topic relevant to the student's degree program. The course will be designed in consultation with an instructor who will also supervise the student's work.

FL-FREN-354 Le Theatre Classique, 3 cr. Theater workshop. An in-depth study of a major drama of the seventeenth century followed by its production and performance. Conducted in French. *Prereq.:* FL-FREN-320 or consent of instructor.

FL-FREN-360 French Seminar, 3 cr. Study of selected topics including Business French, francophone literature and culture. Consult the Schedule of Classes for specific topics. Conducted in French. *Prereq.:* consent of instructor.

FL-FREN-365 Internship, 3 cr. Placement in a government agency, non-profit organization or business which deals with French or francophone countries for 150 hours a term. Opportunity for practice of language skills at a professional level, career exploration, and experience in an internationally oriented work environment. Six hours of preparatory seminar meetings are held during the first two weeks of the semester, followed by bi-weekly meetings with the instructor. *Prereq.:* FL-FREN-222, FL-FREN-223 and consent of instructor.

German

FL-GER-101 German I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.

FL-GER-102 German II, 3 cr. Continuation of FL-GER-101.

Prereq.: FL-GER-101 or equivalent.

FL-GER-103 German III, 3 cr. Continuation of FL-GER-102.

Prereq.: FL-GER-102 or equivalent.

Italian

FL-ITAL-101 Italian I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.

FL-ITAL-102 Italian II, 3 cr. Continuation of FL-ITAL-101.

Prereq.: FL-ITAL-101 or equivalent.

FL-ITAL-103 Italian III, 3 cr. Continuation of FL-ITAL-102. Completes the study of the basic elements of Italian. *Prereq.:*

FL-ITAL-102 or equivalent.

Japanese

FL-JPN-101 Japanese I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.

FL-JPN-102 Japanese II, 3 cr. Continuation of development of skills in listening, speaking, reading, and writing. Cultural appreciation. *Prereq.:* FL-JPN-101 or equivalent.

FL-JPN-103 Japanese III, 3 cr. Continuation of development of skills in listening, speaking, reading, and writing. Cultural appreciation. *Prereq.:* FL-JPN-102 or equivalent.

FL-JPN-104 Japanese IV, 3 cr. Continuation of development of skills in listening, speaking, reading, and writing. Cultural appreciation. *Prereq.:* FL-JPN-103 or equivalent.

Korean

FL-KOR-101 Korean I, 3 cr. Development of basic skills in speaking, listening, reading, and writing. Cultural appreciation.

FL-KOR-102 Korean II, 3 cr. Continuation of development of skills in listening, speaking, reading, and writing. Cultural appreciation. *Prereq.:* FL-KOR-101 or equivalent.

FL-KOR-103 Korean III, 3 cr. Continuation of development of skills in listening, speaking, reading, and writing. Cultural appreciation. *Prereq.:* FL-KOR-102 or equivalent.

FL-KOR-204 Introduction to Korean Culture, 3 cr. Introduction to Korean culture and history. Conducted in English. *Prereq.:* None.

FL-KOR-205 Business Korean, 3 cr. Study of basic skills needed to conduct low-to-midlevel business transactions in Korean with emphasis on aspects of Korean culture that occur most frequently in a business environment. Conducted in English. *Prereq.:* FL-KOR-103 or equivalent or consent of instructor.

FL-KOR-220 Korean Conversation I, 3 cr. Development of oral-aural communication skills with emphasis on everyday situations. *Prereq.:* FL-KOR-103 or consent of instructor.

FL-KOR-221 Korean Grammar and Composition I, 3 cr. Overview of grammar with emphasis on writing skills. *Prereq.:* FL-KOR-103 or consent of instructor.

FL-KOR-222 Korean Conversation II, 3 cr. Continuation of FL-KOR-220 with emphasis on sophistication in speaking Korean through simulation and role playing. *Prereq.:* FL-KOR-220 or consent of instructor.

FL-KOR-223 Korean Grammar and Composition II, 3 cr. Continuation of FL-KOR-221. *Prereq.:* FL-KOR-221 or consent of instructor.

FL-KOR-313 Introduction to Korean Literature, 3 cr. Overview of literary periods and significant trends in Korean and Korean-American Literature. Survey of major writers and their principal works. *Prereq.:* FL-KOR-222 or consent of instructor.

FL-KOR-319 Applied Korean Linguistics, 3 cr. Introduction to the history of the Korean language. Analysis of linguistic structure of Korean and a systematic comparison of Korean and English. *Prereq.:* FL-KOR-223 or equivalent or consent of instructor.

FL-KOR-360 Korean Seminar, 3 cr. An in-depth study of Korean ideas and values which explain some of the most fundamental traditional Korean assumptions about humanity, society and the world. This course will examine ideas and values, rooted in the Confucian tradition, which have influenced pre-modern Korean culture and in many ways remain in force in modern society. *Prereq.:* FL-KOR-313 or FL-KOR 319 or consent of instructor.

Polish

FL-POL-101 Polish I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.

FL-POL-102 Polish II, 3 cr. Continuation of FL-POL-101. *Prereq.:* FL-POL-101 or equivalent.

FL-POL-103 Polish III, 3 cr. Continuation of FL-POL-102. *Prereq.:* FL-POL-102 or equivalent.

Russian

FL-RUSS-101 Russian I, 3 cr. Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.

FL-RUSS-102 Russian II, 3 cr. Continuation of FL-RUSS-101. *Prereq.:* FL-RUSS-101 or equivalent.

FL-RUSS-103 Russian III, 3 cr. Continuation of FL-RUSS-102. *Prereq.:* FL-RUSS-102 or equivalent.

FL-RUSS-204 Introduction to Russian Civilization, 3 cr. A survey of Russian culture (11th-20th centuries) with reference to art, architecture, theater, music, philosophy, and education. Conducted in English.

Spanish

FL-SPAN-101 Spanish I, 3 cr. (For non-native speakers of Spanish.) Development of basic skills in listening, speaking, reading, and writing. Cultural appreciation.

FL-SPAN-102 Spanish II, 3 cr. Continuation of FL-SPAN-101. *Prereq.:* FL-SPAN-101 or equivalent.

FL-SPAN-103 Spanish III, 3 cr. Continuation of FL-SPAN-102. Completes the study of the basic elements of Spanish. *Prereq.:* FL-SPAN-102 or equivalent.

FL-SPAN-123 Accelerated Spanish I-II-III, 9 cr. Accelerated study of Spanish, covering FL-SPAN-101, FL-SPAN-102, and FL-SPAN-103.

FL-SPAN-202 Intermediate Spanish, 3 cr. Review of grammar. Short readings and practice in writing brief compositions. Exercises in oral communication. *Prereq.:* FL-SPAN-103 or equivalent.

FL-SPAN-220 Spanish Conversation I, 3 cr. Development of basic conversational skills with emphasis on everyday situations. Conducted primarily in Spanish. *Prereq.:* FL-SPAN-103 or consent of instructor.

FL-SPAN-224 Intensive Reading of Spanish, 3 cr. Developing comprehension by increasing vocabulary and enhancing speed in reading Spanish. Conducted in Spanish.

Prereq.: FL-SPAN-103 or equivalent.

FL-SPAN-228 Composition for the Spanish-Speaking I, 3 cr. Basic instruction in the rules of Spanish orthography. Conducted in Spanish. *Prereq.:* consent of instructor.

FL-SPAN-230 Spanish Conversation II, 3 cr. Continuation of FL-SPAN-220 with emphasis on spontaneous conversation. Conducted in Spanish. *Prereq.:* FL-SPAN-220.

FL-SPAN-240 Extensive Reading in Spanish, 3 cr. Reading of a wide variety of longer passages with emphasis on general comprehension. Conducted in Spanish. *Prereq.:* FL-SPAN-224.

FL-SPAN-250 Composition for the Spanish-Speaking II, 3 cr. Continuation of FL-SPAN-228. Instruction in Spanish grammar for the Spanish-speaking student. Conducted in Spanish. *Prereq.:* FL-SPAN-228.

FL-SPAN-312 Spanish Conversation III, 3 cr. Continuation of FL-SPAN-230. Mastery of various speaking skills leading toward communicative competence. Conducted in Spanish.

Prereq.: FL-SPAN-230.

FL-SPAN-317 Intensive Writing in Spanish, 3 cr. Preparation of term papers: library use, bibliography, and research. Conducted in Spanish. *Prereq.:* FL-SPAN-240 and for the Spanish-speaking, FL-SPAN-250.

FL-SPAN-319 Applied Spanish Linguistics, 3 cr. Linguistic principles and their application in the preparation of teaching materials and of microlessons. *Prereq.:* consent of instructor.

FL-SPAN-324 Advanced Composition, 3 cr. Advanced study of Spanish composition using complex grammatical structures with special attention to style. Conducted in Spanish.

Prereq.: FL-SPAN-312 or FL-SPAN-317.

FL-SPAN-325 Spanish Seminar, 3 cr. Study of selected topics including language, literature, and culture. Conducted in Spanish. Consult the Schedule of Classes for specific topics. *Prereq.:* consent of instructor.

FL-SPAN-329 Introduction to Spanish-American and Spanish Literature, 3 cr. Overview of literary periods and significant trends in Spanish-American and Spanish Literature. Survey of major writers and their principal works. Conducted in Spanish. *Prereq.:* FL-SPAN-312 or FL-SPAN-317 or consent of instructor.

FL-SPAN-330 La Cultura Hispanoamericana a traves de la Musica, 3 cr. Study of the various aspects of Latin American music as they relate to Spanish American literature and culture. Conducted in Spanish. *Prereq.:* FL-SPAN-312.

FL-SPAN-331 Hispanic World Cultures, 3 cr. Study of the various aspects of the cultures of the Hispanic World. Conducted in Spanish. *Prereq.:* FL-SPAN-312 or FL-SPAN-317.

FL-SPAN-332 Generacion de 1898, 3 cr. Analysis of the general character of the period called Generation of 1898 in Spanish Literature. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-333 The Contemporary Spanish-American Novel, 3 cr. The Spanish-American novel through several literary movements such as Modernism, Regionalism, and Social Protest. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-352 Puerto Rican Literature, 3 cr. Survey of Puerto Rican literature from 1650 to the present; principal literary movements in novel, short story, poetry and drama. Conducted in Spanish. *Prereq.:* FL-SPAN-312 or FL-SPAN-317 or consent of instructor.

FL-SPAN-354 Spanish-American Literature to 1888, 3 cr. Reading and study of Spanish-American literature from its beginning up to and including the Romantic period. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-356 Realism and Naturalism in Spanish-American Literature, 3 cr. Reading and study of Spanish-American literature emphasizing "criollismo", "indianista", and Gaucho literature. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-357 Prose of the Golden Age, 3 cr. Reading and study of the literary prose of the Spanish Golden Age. Emphasis on Don Quixote and the Picaresque novel. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-358 El Modernismo, 3 cr. Reading and study of the prose and poetry of the Modernist authors of Spanish America. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-359 Spanish Literature of the 19th Century, 3 cr. Study of Romanticism, Realism, and Naturalism in Spain. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-363 The Generation of 1927, 3 cr. Works of the principal figures of the Generation of 1927. Conducted in Spanish. *Prereq.:* FL-SPAN-329 or consent of instructor.

FL-SPAN-364 The Spanish-Americans of Chicago, 3 cr. Contributions of Spanish-Americans to Chicago and their impact on the city. Conducted in Spanish. *Prereq.:* FL-SPAN-312 or FL-SPAN-317 or consent of instructor.

FL-SPAN-365 Spanish-American Seminar, 3 cr. Study of selected topics including language, literature, and culture. Conducted in Spanish. Consult the Schedule of Classes for specific topics. *Prereq.:* consent of instructor.

FL-SPAN-401 Seminar in Colonial Spanish American Literature, 3 cr. Advanced study of selected topics and authors of Colonial Spanish American Literature. Topics and/or authors to be announced in the printed schedule of classes.

Prereq.: graduate standing, admission to the Roosevelt University-Northeastern Illinois University Master of Arts Program or written consent of instructor.

FL-SPAN 405 Seminar in XIX Century Spanish American Literature, 3 cr. Advanced study of selected topics and authors of XIX Century Spanish American Literature. Topics and/or authors to be announced in the printed schedule of classes. *Prereq.:* graduate standing, admission to the Roosevelt University-Northeastern Illinois University Master of Arts Program or written consent of instructor.

FL-SPAN 409 Seminar in XX Century Spanish American Literature, 3 cr. Advanced study of selected topics and authors of XX Century Spanish American Literature. Topics and/or authors to be announced in the printed schedule of classes. *Prereq.:* graduate standing, admission to the Roosevelt University-Northeastern Illinois University Master of Arts Program or written consent of instructor.

GEOGRAPHY and ENVIRONMENTAL STUDIES

Diane Stehman, Ph.D., Associate Professor, Chair
Dennis Grammenos, Ph.D., Assistant Professor
Erick Howenstine, Ph.D., Associate Professor
Debby Mir, Ph.D., Assistant Professor
Musa Qutub, Ph.D., Professor

The Geography and Environmental Studies program offers courses leading to the degrees of Bachelor of Arts and Master of Arts. The programs focus on professional geography and environmental studies, planning, teacher training, research and technical skills, and may complement the study of other disciplines.

The department now has priority access to a 10,000 acre field station in Mc Henry County where instructional and research opportunities are available for both undergrad and grad students. For more information contact your program advisor

NOTE: All Geography and Environmental Studies majors must select their elective courses with the approval of their program advisor.

UNDERGRADUATE PROGRAMS

In addition to the individual degree program requirements the department has two other undergraduate degree requirements: (a.) completion of department's computer literacy requirement, and (b.) submission of a portfolio containing copies of relevant research papers and projects completed in courses related to the major. This latter requirement is to assist the department in conducting its annual program assessment.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

Major in Geography for the Bachelor of Arts Degree

Requirements:

Global Geography 3 cr.
G&ES-104 World Geography

Physical Environment: 6 cr.
G&ES-205 Climate, Soils and Vegetation 3 cr.
G&ES-206 Landforms 3 cr.

Human Environment: (Select two) 6 cr.
G&ES-213 Cultural Geography 3 cr.
G&ES-312 Economic Geography 3 cr.
G&ES-317 Urban Geography 3 cr.

Geographic Techniques: (Select two) 6 cr.
G&ES-322 Aerial Photo Interpretation 3 cr.
G&ES-376 Cartography 1 3 cr.
G&ES-377 Computer Cartography 3 cr.
G&ES-382 Remote Sensing 3 cr.
G&ES-391 Rsch. Geographic Information Systems 3 cr.

Research Techniques: (Select two) 6 cr.
G&ES-351 Statistics for Geographers and Earth Scientists 3 cr.
G&ES-374 Research Methods in Environmental Perception 3 cr.
G&ES-380 Field Methods 3 cr.

Approved electives in specialization 12 cr.
Total 39 cr.

Areas of specialization are offered within this program, such as economic geography, socio-cultural geography, physical geography, urban geography, regional geography, resource development and conservation, geographic education, and geographic techniques.

The latter option includes instruction in field methods, computer mapping techniques, statistics, and interpretation of aerial photos and satellite images.

Major In Environmental Studies for the Bachelor of Arts Degree

Environmental studies is a multi-disciplinary, problem-oriented major designed to give students knowledge of and solutions to environmental problems. Students focus on one of two areas: environmental interpretation/education (option 1) or the broader area of environmental planning/management (option 2). Students in option 1 will qualify for careers as naturalists with parks and other outdoor agencies and environmental educators in camps and social service agencies. Students in option 2 may specialize in an area of environmental planning and management such as natural areas, water resources, solid waste, energy resources, international resource development, or environmental policy and administration.

To earn a Bachelor of Arts in Environmental Studies, students must complete at least 15 credit hours of core requirements and 30 credit hours of approved course work from the natural sciences, social sciences and other relevant fields.

Required Courses:

G&ES-150 Introduction to Environmental Studies	3 cr.
G&ES-318 Conservation of Natural Resources	3 cr.
G&ES-386 Internship	6 cr.
G&ES-374 Research Methods in Environmental Perception	3 cr.
Approved Electives	30 cr.
Total	45 cr.

NOTE: Electives should be selected in consultation with a major advisor in the Geography and Environmental Studies program and a co-advisor from a department related to the student's career interest.

Minor In Geography and Environmental Studies (18 cr. hrs.)

The minor is designed to complement students' career or academic interests. Areas of possible emphasis include environmental studies, general geography, physical geography, regional geography, urban geography, and geographic techniques. All minors must select their courses with the approval of their program advisor.

Students in the Elementary Education and Early Childhood Education programs who have selected a Geography minor must see a program advisor to select courses and must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

GRADUATE PROGRAM**Master of Arts in Geography and Environmental Studies**

The Master of Arts degree program is designed to provide advanced analysis of spatial and environmental interrelationships. Specialization is possible in geographic or environmental studies. The latter is supported by a state-of-the-art laboratory for instruction in computer cartography and use of Geographic Information Systems (GIS).

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Applicants must have the equivalent of an undergraduate minor in geography or environmental studies. Students lacking this level of preparation may be required to remedy any deficiencies noted in their background.

The department specifically requires that the Statement of Goals and Objectives, included with the Admission Applications package, be two typewritten pages. This statement should demonstrate the student's organizational and writing skills and should specify as clearly as possible the student's (a) reasons for selecting the G&ES program of study, (b) academic/professional goals, and (c) plans for achieving them.

Degree Requirements:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with your program advisor or the Graduate College for details.**

All candidates must complete a final written or oral examination covering their chosen area of specialization as well as knowledge of geography, environmental studies, and disciplinary techniques.

Students must write either a thesis or major research paper under the supervision of their program advisor, with registration permitted after a faculty committee approves the student's written proposal. The thesis topic must be chosen in advance in consultation with the Program Advisor. Six hours which count towards the elective requirements are granted for a thesis through the course G&ES-431 Thesis Seminar: Geography and Environmental Studies. An oral defense of the thesis is required.

Students electing not to complete a thesis must instead complete G&ES 430 Research Seminar, preparing a research paper written under the supervision of their Program Advisor. A formal proposal must be approved by the student's committee prior to registration.

This program prepares students for positions in education, industry, government, environmental planning and management, environmental interpretation, and other areas where geographers, planners, and environmental professionals are needed.

Requirements include a total of 33 credit hours in geography and/or environmental studies. Each student must choose an area of specialization in geography or environmental studies. Programs must be planned in consultation with an approved Program Advisor. Additionally, students should consult the G&ES Graduate Coordinator to obtain more detailed program requirements and related literature.

Students who entered the program as of Fall 1997 or after must consult with the Graduate Coordinator or the Graduate College on the status of 300-level courses listed below for graduate degree credit. At the time of publication, the following courses are available for this option. G&ES 322, G&ES 351, G&ES 377, G&ES 380, and G&ES 391. Students are advised to inquire if any additional courses have been approved with this option.

Required Courses:

G&ES-442 Geographic Problems in Quantitative Measurements, or one other approved statistics course	3 cr.
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G&ES-322 Aerial Photographic Interpretation or G&ES-376 Cartography I or G&ES-377 Computer Cartography or G&ES-382 Remote Sensing	3 cr.
G&ES-411 Scope and Philosophy of Geography and Environmental Studies	3 cr.
Approved Geography, Planning, Geographic Techniques, or Environmental Studies Electives	24 cr.
Total	33 cr.

COURSE OFFERINGS

G&ES-104 World Geography, 3 cr. Analysis of global patterns, processes, interrelationships; place geography; map reading, interpretation and reporting.

G&ES-140 Water Resources and Development, 3 cr. Survey of surface and subsurface water resources and their impact on human, industrial, agricultural, and recreational development.

G&ES-150 Introduction to Environmental Studies, 3 cr. Environmental relations, problems and proposed solutions, such as environmental degradation, law and impact; land-use planning; resource development; population-resource pressures; urbanization; and technological development; from local to global issues.

G&ES-205 Physical Geography: Climate, Vegetation, and Soils, 3 cr. Introductory survey of the earth's physical environment emphasizing earth-sun relationships, the processes functioning in the atmosphere and oceans, and the development and interrelationships of climate, soil, and vegetation. Lecture 2 hours, lab 2 hours.

G&ES-206 Physical Geography: Landforms, 3 cr. Introductory survey of the earth's physical environment examining the earth's land surface, its composition, its relief forms and the processes that determine landforms, and the mapping of this global surface. Lecture 2 hours, lab 2 hours.

G&ES-213 Cultural Geography, 3 cr. Social-cultural organizations and their relationships with the physical environment. Human spatial behavior, determinants of rural and urban settlement patterns, and urban settlement types.

G&ES-214 Geography of Wine, 2 cr. Production, distribution and consumption of wine.

G&ES-220 Environmental Pollution Control, 3 cr. Introductory course in environmental pollution with emphasis on air, noise, solid waste, sources of pollution, methods of measurement and analysis, as well as legal and economic factors which dictate possible solutions.

G&ES-302 Regional Geography, 3 cr. Exploration and analysis of the physical, cultural, political, and economic make-up of regions and regional settings. Regions covered may include: Africa, Anglo-America, Central America, South America, Asia, Australia and Islands of the Pacific, Europe, China, Japan, India, the Soviet Union, etc. Consult the Schedule of Classes for specific region.

G&ES-304 Women's Place and Space, 3 cr. Representation and realities related to women's space and women's role in spatial change.

G&ES-305 Geography and Map Skills for Teachers, 3 cr. Focuses on five main themes in geography; methods and materials to teach the themes in K-12 classes. Map skills and instructional strategies will also be presented.

G&ES-307 Environmental Education Seminar, 3 cr. Analysis and development of environmental education instructional materials and teaching strategies. Seminar focus varies depending on the interests of the participants.

G&ES-309 Principles and Methods of Environmental Interpretation, 3 cr. Naturalists and environmental educators learn how to interpret the environment to others in park and camp settings; philosophy, organization, administration, and program skills involved in the use of outdoor interpretive methods, such as field trips, nature trails, campfire programs, overnight camping, and trailside museums, with emphasis on meeting the needs of urban citizens. *Prereq.: consent of instructor.*

G&ES-310 Environmental Interpretation Program Development, 3 cr. This course is designed to apply the general principles of environmental interpretation at a particular field site through the development of an interpretative master plan, environmental education lesson plans, etc. Students will work in cooperation with field professionals individually or as members of a team on an applied project that will be implemented at the interpretive site.

G&ES-312 Economic Geography, 3 cr. The influence of free market economics on spatial patterns of production, transportation, and consumption in the United States and worldwide.

G&ES-314 Political Geography, 3 cr. Differences in territorial control existing in selected places in relation to landforms, population distribution, economic activities; areas of current friction between nations.

G&ES-316 Location Analysis, 3 cr. Theoretical analysis of the distributional patterns of phenomena on the earth's surface, design of optimal spatial arrangements, location theory, emphasis on economic activities. *Prereq.: G&ES-312 or consent of instructor.*

G&ES-317 Urban Geography, 3 cr. Application of geography to the interpretation of urban settlement using both topical and regional approaches; emphasis on major local cities, field trips.

G&ES-318 Conservation of Natural Resources, 3 cr. Historical approach toward understanding concepts, principles and problems in the management of natural resources: air, water, minerals, soil, forest, grasslands, and wildlife.

G&ES-319 Natural Resources: Policy and Planning, 3 cr. Physical, economic, social and political factors involved in policy determination and planning for natural resource development; emphasis upon relations between public and private enterprise and policies for international resource development. *Prereq.: G&ES-318 or consent of instructor.*

G&ES-320 Geography of Urban Land Use, 3 cr. Land use planning processes focusing on urban areas. Emphasis on the determinants of land use and the techniques required to analyze land use. Field experience in land use mapping will be included. *Prereq.: G&ES-317 or consent of instructor.*

G&ES-321 Environmental Impact Assessment, 3 cr. This course is an in-depth analysis of the National Environmental Policy Act of 1969 and the requirements for environmental impact assessment. Topics include NEPA requirements, categories and methods of environmental assessment, agency direction for implementing NEPA, role of impact assessment in planning and decision making, and the role of public participation and conflict management.

G&ES-322 Aerial Photographic Interpretation in Geography, 3 cr. Development and use of aerial photographs with emphasis on proper techniques for interpretation of geological structures, landscapes, cultural and economic activities. Approved for graduate credit. *Prereq.: G&ES-206 or consent of instructor.*

G&ES-326 Recreation Geography, 3 cr. Recreation location, management, and planning in rural and urban areas. Emphasis on the urban area, its recreational needs, and the needs of urban residents in rural areas. *Prereq.: consent of instructor.*

G&ES-327 Forest Resources Management, 3 cr. Overview of forestry, forest uses, forest problems, and forest management policies and practices in the United States and the world.

G&ES-328 Wildlife Resource Management, 3 cr. General wildlife management course for resource planners, interpretative naturalists, and teachers. Basic understanding of wildlife values, wildlife conservation principles and practices, and current wildlife policy issues with emphasis on wildlife and its management, appropriate for a metropolitan area such as northeastern Illinois. This field-oriented course is a useful preparation for students considering an advanced degree in fish and/or wildlife management.

G&ES-329 Alternate Energy: Policy and Practice, 3 cr. Study of renewable energy resources as alternatives to nuclear energy and the traditional fossil fuels; the current state of the art in using sunlight, wind, water, and biomass for energy; policy options and issues in implementing such alternative technologies.

G&ES-330 National Parks and Forests, 3 cr. An overview of the policies that guide the management of the national parks, forests, wildlife refuges and wilderness preserves. Students also consider current management problems and the interdisciplinary concepts for addressing these problems. The final part of the course deals with relations with external communities and interest groups and future policies for managing national and international parks and equivalent reserves.

G&ES-331 The Natural Environment in Spring, 3 cr. Integrative study of seasonal changes of the natural environment in spring; climate, soils, water, plants, animals, and the human relationships associated with seasonal changes. Conducted primarily in the field.

G&ES-332 The Natural Environment in Summer, 3 cr. (See G&ES-331 for course description.)

G&ES-333 The Natural Environment in Autumn, 3 cr. (See G&ES-331 for course description.)

G&ES-334 The Natural Environment in Winter, 3 cr. (See G&ES-331 for course description.)

G&ES-339 Geography of Fossil Energy Resources, 3 cr. Examination of the geographical distribution and locational factors influencing the use of fossil energy resources and the dynamics of their consumption, including an overview of historical patterns, and current and future trends; new technologies and management strategies against the background of finite resource base and projected need for worldwide conservation of fossil fuels. Several sessions to be held in the field.

G&ES-340 Water Resources Planning, 3 cr. Detailed investigation of need for water resources planning and the use of appropriate planning techniques, with emphasis on multipurpose resource management.

G&ES-341 Field Methods in Water Resources, 3 cr. Examination and application of methodologies utilized in water resource exploration and development, with emphasis on seismic and resistivity techniques. Field trips and research project required. *Prereq.: G&ES-340 and ESCI-337 or consent of instructor.*

G&ES-342 Wastewater Treatment, 3 cr. Analysis of waste water treatment systems, including water contaminated by toxic and hazardous substances. Use of treated waste water and sludge. Field trips and projects. *Prereq.: G&ES-340 and CHEM-211 or equivalent.*

G&ES-346 Geography of Metropolitan Chicago, 3 cr. Geographical factors affecting Chicago; detailed study of communities within Chicago and its suburbs in Illinois; field trips.

G&ES-347 Rehabilitation of Historic Urban Areas: Neighborhood Renovation, 3 cr. Basic issues and principles of historic urban neighborhood preservation, revitalization, restoration and gentrification emphasizing public and private market initiatives. Field work in the Chicago metropolitan area provides exposure to preparation and methods of surveying, collecting, recording and processing data for the preservation of historic districts.

G&ES-350 Marketing Geography, 3 cr. Spatial patterns of market activities at the wholesale and retail levels, theories of the location of private and public service facilities and methods of store location; planning and market area analysis. *Prereq.: G&ES-312, or ECON-217, or consent of instructor.*

G&ES-351 Statistics for Geography and Environmental Studies, 3 cr. Introduction to statistical problems, principles, and techniques for the study of geography or earth sciences. *Prereq.: nine credits in geography and environmental studies and MATH-104 or equivalent.*

G&ES-352 Independent Study in Geography and Environmental Studies, 3 cr. Study of a topic of special interest to the student. *Prereq.: consent of instructor.*

G&ES-353 Independent Study in Geography and Environmental Studies, 2 cr. (See G&ES-352 for description.)

G&ES-354 Independent Study in Geography and Environmental Studies, 1 cr. (See G&ES-352 for description.)

G&ES-355 Metropolitan Transportation: Problems and Planning, 3 cr. Problems of transportation in the metropolitan area, focusing on commuting, expressway development, the automobile vs. public transportation, and congestion in the central business district. Emphasis on the attempts to plan more effective transportation systems, looking particularly at the Chicago area. *Prereq.:* G&ES-317 or consent of instructor.

G&ES-356 Coastal Environments, 3 cr. Analysis of the morphology of coastal environments including the factors that influence their development and distribution including human impact on contemporary coastal environments. *Prereq.:* six hours in geography and environmental studies and G&ES-206 or consent of instructor.

G&ES-357 Geography of Natural Hazards, 3 cr. Investigation of varied natural and quasi-natural hazards (river and coastal flooding, problem soils, earthquakes, etc.) with emphasis on human/hazard interactions, the spatial distribution of these geomorphic phenomena, and related impacts on the planning strategies will be explored using case studies. Local field trips. *Prereq.:* G&ES-317 or G&ES-206 or consent of instructor.

G&ES-358 Urban Atmospheric Environment, 3 cr. Interaction between cities and their atmospheres. Emphasis on micro-climatic and meso-climatic effect of urban environments. Causes, types and implications of inadvertent climate modification in cities. Field work in the Chicago area. *Prereq.:* G&ES-205 or consent of instructor.

G&ES-359 Environmental Planning, 3 cr. Principles of land development with emphasis on physical environmental opportunities and limitations; concepts of land ownership, tenure and use; ecological and environmental analysis; techniques of site design. *Prereq.:* G&ES-150 and G&ES-361.

G&ES-360 Environment and Behavior, 3 cr. Concepts from several social science disciplines important for understanding the relationship between human behavior and the environment. Topics include environmental attitudes and perception, attitude and behavior change, environmental conflict and conflict resolution, public participation, and behavioral aspects of global resource management problems.

G&ES-361 City Planning, 3 cr. City planning process; historical development of planning in the United States; basic planning studies including the components of a comprehensive plan; planning theory and practice; implementation procedures; social planning. *Prereq.:* G&ES-317 or consent of instructor.

G&ES-362 Population Problems, 3 cr. Growth and distribution of population; elements of population change such as birth, death, and migration; short and long term problems of local and global nature.

G&ES-363 Field Experience, 3 cr. Investigation of a variety of specific geographic and environmental issues such as water resources; waste; environmental health; environmental law and economics. Classroom and field experiences. Consult the schedule of classes for specific topics. *Prereq.:* twelve hours in geography or environmental studies.

G&ES-364 Field Experience, 4 cr. (See G&ES-363 for course description.)

G&ES-365 Field Experience, 5 cr. (See G&ES-363 for course description.)

G&ES-366 Field Experience, 6 cr. (See G&ES-363 for course description.)

G&ES-368 Changing Global Climates, 3 cr. Using basic meteorological concepts, this course explores the changing patterns and cycles of global climates. Specific attention is given to both natural phenomena, such as El Nino, and human impacts such as deforestation, ozone depletion, and the greenhouse effect.

G&ES-369 Urban Land Use Planning, 3 cr. Major topics in urban land use planning such as zoning and transportation; residential, commercial, manufacturing, or recreational land use. Consult the Schedule of Classes for specific topics.

Prereq.: G&ES-361 or consent of instructor.

G&ES-370 Regional Economic and Social Development, 3 cr. Variations in the economic and social development and social conditions of United States and world regions; consideration of inequities in regional development and of strategies for change.

Prereq.: G&ES-212 or G&ES-312 or consent of instructor.

G&ES-371 Geomorphology, 3 cr. Sequential landform processes emphasizing the integration of diastrophism, weathering, and the erosional agents of gravity, water, wind, ice, and waves. *Prereq.:* G&ES-206.

G&ES-373 Biological Geography, 3 cr. Geographical distribution of living organisms and the principles underlying this distribution. *Prereq.:* six hours of general biology.

G&ES-374 Research Methods in Environmental Perception, 3 cr. Survey and analysis of literature and research related to environmental perception; methods of data collection, interpretation and evaluation for students' original research projects. *Prereq.:* junior standing or consent of instructor.

G&ES-375 Regional Climatology, 4 cr. Controls of climate, the development of regional climatic characteristics and their spatial arrangement, and the development of climatic classifications. Laboratory.

G&ES-376 Cartography I, 3 cr. Principles, elements and philosophy of cartographic presentations, covering historical and modern cartographic techniques, symbolization, projections and the elements of cartography as a science and an art.

G&ES-377 Computer Cartography, 3 cr. Techniques and methods of cartography with primary emphasis on thematic mapping with computer applications. Approved for graduate credit. *Prereq.:* consent of instructor.

G&ES-378 Physical Climatology, 3 cr. Parameters and processes in the atmospheric system. Energy budgets, evapotranspiration, water balance; climatic geomorphology and climatic change. *Prereq.:* G&ES-205 or consent of instructor.

G&ES-379 Seminar in Physical Geography, 3 cr. Selected areas of current research on problem resolution in physical geography. Consult the Schedule of Classes for specific topics. *Prereq.:* six credit hours of physical geography or earth science or consent of instructor.

G&ES-380 Field Methods, 3 cr. Introduction to the instruments, measurements, mapping techniques, and sampling procedures used to acquire primary data from field observations. Development of a field research plan, culminating in research projects tailored to each student's interest. Approved for graduate credit. *Prereq.:* six hours in geography and environmental studies or consent of instructor.

G&ES-381 Field Camp, 6 cr. Intensive study of a region emphasizing its physical and cultural geography as well as assessment of environmental impact. Daily or extended field trips. Research paper required. Pre-camp briefing sessions.

G&ES-382 Remote Sensing in Geography and Environmental Studies, 3 cr. Basic principles of remote sensing and data collection with analysis of landforms, resource development, pollution detection and land use with major emphasis on planning applications.

G&ES-383 Internship in Geography and Environmental Studies, 3 cr. Supervised field experience with an agency related to the student's career interest. Prior course work and other experience are evaluated before approval is granted to enroll in the internship. A handout to guide the internship is available from the faculty advisor. *Prereq.:* consent of instructor and department chairperson.

G&ES-386 Internship in Geography and Environmental Studies, 6 cr. (See G&ES-383 for course description.)

G&ES-390 Environmental Digital Image Processing, 3 cr. Digital image processing as it applies to a variety of environmental issues. Students are required to use the computer to map and analyze satellite generated data.

G&ES-391 Geography Information Systems Research, 3 cr. An introduction to GIS technology for research applications. Students will study the conceptual and technical process of GIS research including project design, data acquisition, data manipulation, analysis, interpretation, and display. Approved for graduate credit. *Prereq.:* G&ES-377 Computer Cartography.

G&ES-401 Seminar in Cultural Geography, 3 cr. Selected theories and methodologies of cultural geography and the current trends within the discipline; students prepare a seminar paper that incorporates the concepts of a specific approach applied to a local phenomenon. *Prereq.:* graduate standing, G&ES-213, or consent of instructor.

G&ES-411 Scope and Philosophy of Geography and Environmental Studies, 3 cr. Historical development of geography as a regional, spatial, and environmental science: its content, subdivisions, and methods of study. *Prereq.:* graduate standing in geography and environmental studies.

G&ES-415 Computer Techniques and Spatial Data Analysis, 3 cr. The application of computer technology in the preparation of thematic maps and graphics, and an overview of spatial analysis with the aid of geographic information systems (GIS). Mapping will emphasize creation and display of statistical surfaces. Principles and applications of GIS, including vector and raster data structures, data input storage, and retrieval, and data manipulation and output of geographic information will be examined. Various applications intended for the analysis of social, economic, political, and

environmental systems will be presented. *Prereq.:* G&ES 376 or Consent of Instructor. Not open to students that have taken G&ES 377 and G&ES 391.

G&ES-416 GIS for Natural Systems Management, 3 cr. Advanced principles and applications of gridcell-based (raster) Geographic Information Systems (GIS). Theory and concepts of raster data storage, retrieval, visualization, modelling, and output for natural resource applications and management are presented. Students will investigate and develop spatial analysis techniques, referred to as cartographic modelling, culminating in independently designed research projects and class presentations. *Prereq.:* G&ES 415 or consent of instructor.

G&ES-417 Urban Information Systems, 3 cr. Advanced analysis of urban environment using vector-based geographic information systems. Students will employ various data sources such as TIGER line files, census and USGS information, as well as digitize paper map sources, to study urban processes such as suburbanization, segregation, economic development, network-based transportation and site location analysis. Student exploration will culminate in a research project of the student's selection. *Prereq.:* G&ES 415 or consent of instructor.

G&ES 420 Classification and Mapping of Natural Land, 3 cr. An integrative study of multifactor ecological land classification and mapping as an instrument for evaluating the restoration potential of natural areas within the Chicago Region. This cartographic approach will address the diversity of the tract and its social context, characterize the physiography, soils, hydrology, and history of the area, attempt to estimate its presettlement vegetation, and evaluate the land zoning and demographics of the surrounding human community—all as a baseline guide for future restoration management. *Prereq.:* G&ES 205 or consent of the instructor.

G&ES 423 Landscape Restoration Management and Planning, 3 cr. An integrated study of restoration management planning for natural areas. This course will synthesize information from a variety of areas: landscape preservation and restoration, education, community involvement, community relations, volunteerism, and budgetary and manpower constraints. Each student will prepare a management plan for a local natural area. *Prereq.:* G&ES 420 or consent of the instructor.

G&ES 430 Research Seminar, 3 cr. Students conduct research and write a research paper on an approved topic to fulfill requirements for the Master of Arts degree. Credit for this course and G&ES 431 Thesis Seminar, will not be permitted.

G&ES-431 Thesis Seminar—Geography and Environmental Studies, 6 cr. Students conduct research and write a thesis to fulfill requirements for the Master of Arts degree. *Prereq.:* acceptance to master's degree candidacy in geography and environmental studies.

G&ES-442 Geographic Problems in Quantitative Measurements, 3 cr. Statistical applications in geography and environmental studies; reliability of quantitative formulas and studies; geometrics; statistical project required as part of the course. *Prereq.:* graduate standing and an introductory course in statistics or consent of instructor.

G&ES-443 Seminar in Urban Land Use Planning, 3 cr.

Urban spatial structure, activity systems and land development processes, examination of survey techniques, analysis procedures and modeling systems of evaluating land use plans. Topics may include housing, zoning, transportation relationships, and environmental issues. Consult the schedule of classes or specific topics. *Prereq.:* graduate standing and six hours of planning courses.

G&ES-444 Seminar in Regional Geography, 3 cr. Physical, cultural and economic make-up of a region; intensive reading and discussion. Consult the schedule of classes for specific topics. Seminar paper required. *Prereq.:* graduate standing.

G&ES-445 Seminar in Resource Management and Decision-Making, 3 cr. Research seminar involving the principles of decision-making as utilized in the field of resource management; application of these principles through research projects conducted in the Chicago metropolitan area. *Prereq.:* graduate standing, G&ES-319, or consent of instructor.

G&ES-446 Seminar in Environmental Studies, 3 cr. Current environmental topics. Students present a research proposal with a detailed resource bibliography. Proposals may serve as the basis for required research papers. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing, nine credits in environmental studies, or consent of instructor.

G&ES-447 Seminar in Open Space Issues, 3 cr. Analysis of current open space issues at local, regional and national levels. Includes problems and factors such as land use conflicts, accessibility, recreational needs, funding, public and private open space agencies and open space acquisition methods. *Prereq.:* graduate standing and nine credits in environmental studies.

G&ES-448 Seminar in Land Use Issues, 3 cr. Research seminar concerning the problems, issues, and solutions associated with the use and development of land. *Prereq.:* graduate standing, nine credits in environmental studies, or consent of instructor.

G&ES-449 Seminar in Land Use Controls, 3 cr. Research seminar concerning the rationale and methods of regulating the use of private land: land subdivision, zoning, growth control. *Prereq.:* graduate standing and six credit hours of planning courses.

G&ES-450 Seminar in Comprehensive Planning, 3 cr. Urban land use planning process emphasizing the analysis and application of policies for urban spatial structure, activity systems, and land development. Review and criticism of official comprehensive plans of cities in the Chicago metropolitan area. *Prereq.:* graduate standing and six credit hours of planning courses.

G&ES-451 Seminar in Recreation Planning, 3 cr. Field work primarily in the Chicago metropolitan area. Examination of problems, hypothesis testing, and data processing on selected topics in urban recreation. *Prereq.:* graduate standing and consent of instructor.

G&ES-452 Field Work in Environmental Studies, 6 cr. Field techniques in environmental science, covering drainage systems, location of sanitary landfills, water pollution sources, distribution of landforms and glacial deposits. *Prereq.:* graduate standing and consent of instructor.

G&ES-461 Independent Study in Geography and Environmental Studies, 3 cr.

Independent research on a topic chosen in consultation with the instructor. *Prereq.:* graduate standing and consent of instructor.

G&ES-471 Seminar in Urban Geography, 3 cr. Intensive discussion, study and research on the most essential topics in urban geography; central place theory, urban renewal programs, population and economic development; field work. *Prereq.:* graduate standing.

Oceanography

G&ES-OC-324 Oceanography I, 3 cr. Ocean boundaries and bottom topography. Origin and evolution of ocean basins. Nature and characteristics of coastal and marine sediments. Gathering of oceanological data and development of the marine sciences. *Prereq.:* G&ES-205 or ESCI-121 or ESCI-211 or consent of instructor.

G&ES-OC-325 Oceanography II, 3 cr. Physical and chemical properties and characteristics of sea water. Hydrodynamics, currents, waves, tides, circulation. Life conditions in the ocean environment, relationship to marine biology. Economic oceanography; the use of statistical methods and marine cartography. *Prereq.:* G&ES-324 or consent of instructor.

G&ES-OC-335 Ocean Resources, 3 cr. Comprehensive study of the current and future exploitation of the ocean resources.

HISTORY

Gregory Holmes Singleton, Ph.D., Professor, Chair
 Andrew Eisenberg, Ph.D., Associate Professor
 Patrick B. Miller, Ph.D., Associate Professor
 Steven A. Riess, Ph.D., Professor
 Susan E. Rosa, Ph.D., Associate Professor
 Zachary S. Schiffman, Ph.D., Professor
 Andrew Shankman, Ph.D., Assistant Professor
 June Sochen, Ph.D., Professor
 Salme Harju Steinberg, Ph.D., Professor
 Charles R. Steinwedel, Ph.D., Assistant Professor
 Michael W. Tuck, Ph.D., Associate Professor

The Department of History is committed to providing all students with an historical perspective in its undergraduate and graduate courses so they can better understand the present and can look to the future with a knowledge of the past. The department offers a comprehensive range of courses that explore human history at all times and places. The tools taught by the historian aid all students in their preparation for careers.

The Department of History offers courses leading to the degrees of Bachelor of Arts and Master of Arts. In addition, the Department offers a minor.

NOTE: Many history courses have been renumbered and others consolidated. Students who took a course under one number will not receive credit for taking the same course under its new number.

UNDERGRADUATE PROGRAMS

Major in History for the Bachelor of Arts Degree

Required Courses:

Two courses in European History:..... 6 cr.
 HIST-111A World History: West to 1500 3 cr.
 HIST-111B World History: West,
 1500 - Present 3 cr.

Two courses from the following in United States
 History: 6 cr.
 HIST-214 United States History, 1607-1877 3 cr.
 HIST-215 United States History, 1877-Present.. 3 cr.

Two courses in non-European and non-United
 States History: 6 cr.

These courses may be chosen from such areas as Latin
 America, Asia, Africa, or thematic courses related to western
 expansion or interaction with other cultures.

Six courses chosen from 300-level electives in
 history with the approval of an advisor 18 cr.
 Total 36 cr.

NOTE: Only one section of each of the following courses
 may apply to the major: HIST-390, HIST-391, HIST-392,
 HIST-393.

Students should also be aware of the University requirements
 for the Bachelor's degree. All students must complete a
 minimum of 42 semester hours at the 300 level.

Students wishing to be certified for teaching history in
 secondary schools should consult the Secondary Education
 section of this catalog. Students seeking certification to teach
 United States history are required to complete 8 semester
 hours in U.S. history.

All history majors are required to establish an Assessment
 Portfolio with the Departmental secretary before graduation.
 The purpose of this portfolio is solely to assess the
 effectiveness of the history curriculum in meeting the goals
 of the major. The portfolio will consist of either one research
 paper of at least 10 pages in length, or three theme papers
 of 3-5 pages in length (book reviews are not acceptable).
 The paper(s) must have been written for course work in
 history at Northeastern. Although student papers will not be
 graded and will only be assessed for statistical purposes,
 students are nonetheless encouraged to submit their best
 work for evaluation. STUDENTS ARE THEREFORE ADVISED
 TO KEEP COPIES OF ALL APPROPRIATE HISTORY
 PAPERS (or they may deposit copies of their papers with the
 departmental secretary at the time such papers are handed
 back by their instructors).

Minor in History (18 cr. hrs.)

Six history courses (18 credit hours) of which a minimum of
 nine credit hours must be earned at the 300-level, chosen in
 consultation with a departmental advisor.

Students in the Elementary Education and Early Childhood
 Education programs who have selected this minor must

complete a minimum of 9 hours at the 300-level to meet
 graduation and certification requirements.

GRADUATE PROGRAM

Master of Arts in History

Requirements for Admission to the Program:

Applicants must fulfill the general requirements for admission
 to the Graduate College. In addition, they must have completed
 a minimum of 24 credit hours in undergraduate history. (Those
 who do not meet this requirement may petition the
 Department's Graduate Advisor in writing for admission.)
 Applicants must also submit to the Graduate Advisor a graded
 paper written for an upper division, undergraduate course,
 preferably in history. (Those who cannot meet this requirement
 may also petition the Graduate Advisor in writing for
 admission.) The Department recommends prospective
 applicants meet with the Graduate Advisor for assistance in
 planning their graduate program.

Requirements for the Degree:

**For students admitted to Master's Programs for the Fall
 1997 semester and thereafter,** all graduate credits must be
 at the 400 level, except for a limited number of 300 level
 courses specifically approved for graduate degree credits in
 a given Master's degree program. Departments may permit
 students to apply up to three of these 300 level courses, to
 a maximum of ten credit hours, to fulfill program requirements.
 This policy applies to all students entering graduate degree
 programs beginning with Fall 1997. **Consult with your
 program advisor or the Graduate College for details.**

Students have the choice between two options.

Thesis Option

Required Courses:

HIST-401 Historiography and Historical Method 3 cr.
 Seven graduate-level history electives
 (2 may be in related fields) chosen
 in consultation with the Graduate Advisor 21 cr.
 Two graduate research seminars 6 cr.
 History 499 - Thesis Seminar 6 cr.
 Total 36 cr.

NOTE: Students must pass (1) a written comprehensive
 examination covering material from their courses and (2) an
 oral thesis defense examination.

Non-Thesis Option

Required Courses:

HIST-401 Historiography and Historical Method. 3 cr.
 Seven graduate-level history electives chosen in
 consultation with the graduate advisor 21 cr.
 Two electives in history or another relevant field
 chosen in consultation with the graduate advisor 6 cr.
 Two graduate research seminars 6 cr.
 Total 36 cr.

NOTE: Students must pass a final comprehensive examination
 covering the course work.

COURSE OFFERINGS

HIST-101 History of Chicago, 3 cr. General survey of Chicago from the early settlement to the present with emphasis on patterns of growth, immigration, commercial and economic development and cultural contributions.

HIST-111A World History: West to 1500 A.D., 3 cr. Survey of the formation of Western Civilization from its ancient Mediterranean origins until the European Renaissance.

HIST-111B World History: West, 1500 - Present, 3 cr. Survey of Western Civilization from Renaissance to the present age of expanded European influence.

HIST-111C World History: East Asia, 3 cr. Survey of the history and culture of East Asia, with emphasis on China and Japan from antiquity to the present.

HIST-111D World History: Latin America, 3 cr. Survey of the history and culture of Latin America, with emphasis on the last 500 years.

HIST-111E World History: Africa, 3 cr. Survey of the history and culture of Africa with emphasis on the relations between Africa and the wider world.

HIST-202 History of Afro-Americans to 1877, 3 cr. Survey of the history of Black Americans from the African background through the Reconstruction period with emphasis on such themes as slavery, the origin of free Blacks, Black social activism prior to the War Between the States, and the development of Black communities during Reconstruction.

HIST-203 History of Afro-Americans Since 1877, 3 cr. Survey of the history of Black Americans from the end of Reconstruction to the present with emphasis on such themes as the role of Blacks in the political and industrial order of the New South, the goals and concerns of Afro-American leadership, the formation of northern urban communities, and the rise of civil rights activism.

HIST-214 United States History, 1607-1877, 3 cr. Social, political, intellectual, diplomatic and economic development of the American colonies and the United States from the beginnings through 1877.

HIST-215 United States History, 1877-Present, 3 cr. Social, political, intellectual, diplomatic, and economic development of the United States from 1877 to present.

HIST-300A Ancient Greece, 3 cr. Social, political, and intellectual history of Greece, from the age of Homer through the Peloponnesian War. Readings include selections from the poetry, drama, history, and philosophy of the period.

Prereq.: Two courses in history or consent of instructor.

HIST-300B Ancient Rome, 3 cr. The history of Rome from prehistoric cultures to the end of the Roman Empire. *Prereq.: Two courses in history or consent of instructor.*

HIST-301 Medieval Europe, 3 cr. Major themes of the Middle Ages in Europe with emphasis on Western Europe.

Prereq.: Two courses in history or consent of instructor.

HIST-302A Age of Renaissance, 3 cr. The political and cultural history of Italy and Northern Europe from 1300-1600.

Prereq.: Two courses in history or consent of instructor.

HIST-302B Age of the Reformation, 3 cr. The religious crisis within Roman Catholicism and the genesis and growth of the Protestant movement. *Prereq.: Two courses in history or consent of instructor.*

HIST-303 Europe During the Ancien Regime — Seventeenth and Eighteenth Centuries, 3 cr. The political, economic, social, and intellectual development of Europe in the seventeenth and eighteenth centuries. *Prereq.: Two courses in history or consent of instructor.*

HIST-304 Europe in the Age of Revolution, 1789-1871, 3 cr. The historical forces in European society from the French Revolution to the completion of the unification processes. *Prereq.: Two courses in history or consent of instructor.*

HIST-305 Europe in the Age of Imperialism, 1871-1919, 3 cr. The historical forces in European society during the period of great territorial expansion and rivalry culminating in the First World War. *Prereq.: Two courses in history or consent of instructor.*

HIST-306 Europe in the Age of Ferment, 1919-Present, 3 cr. European history in the time of recurrent warfare, dislocation, authoritarianism, and reappraisal. *Prereq.: Two courses in history or consent of instructor.*

HIST-307A The Age of the Baroque, 3 cr. An examination of the intellectual and cultural history of seventeenth-century Europe, with special emphasis on scientific, philosophical, political, and religious thought. *Prereq.: Two courses in history or consent of instructor.*

HIST-307B The Age of the Enlightenment, 3 cr. An examination of the intellectual and cultural history of eighteenth-century Europe, with special emphasis on religious, political and philosophical thought. *Prereq.: Two courses in history or consent of instructor.*

HIST-310 History of Spain, 3 cr. Survey of Spanish history from its pre-historic times to the present, with emphasis on social and economic developments; special attention to issues affecting Spain in the last two centuries. *Prereq.: Two courses in history or consent of instructor.*

HIST-311A History of England to 1688, 3 cr. Survey of English history to the revolution of 1688; emphasis on significant themes, such as the evolution of monarchy and parliament, medieval society, the Elizabethan world, and constitutional crisis in Stuart England. *Prereq.: Two courses in history or consent of instructor.*

HIST-311B History of England from 1688 to the Present, 3 cr. The political, economic and cultural forces that shaped Great Britain. Emphasis on the class structure, the transition to an industrial society, Georgian and Victorian culture, contemporary Britain. *Prereq.: Two courses in history or consent of instructor.*

HIST-312 Tudor England, 3 cr. Major political, social, intellectual and economic trends in sixteenth century England.

Prereq.: Two courses in history or consent of instructor.

HIST-313A The History of Prussia-Germany, 1640-1918, 3 cr. Study of the evolution of Prussia in the seventeenth and eighteenth centuries with emphasis upon her role in the political and social institutions of Germany, Europe and the world through 1918. *Prereq.: Two courses in history or consent of instructor.*

HIST-313B Twentieth Century Germany, 3 cr. Study of the problems faced by twentieth century Germany, including the demise of the Weimar Republic and the political and social origins of the Nazi Movement, and the situation of post-war Germany. *Prereq.: Two courses in history or consent of instructor.*

HIST-314A Russian History from the Varangians to 1855, 3 cr. The Russian people, state, and culture from their origins to the death of Nicholas I. *Prereq.:* Two courses in history or consent of instructor.

HIST-314B Russian and Soviet History, 1855 to the Present, 3 cr. The political, diplomatic, intellectual and social development of the peoples of the Russian Empire and the Soviet Union from the accession of Alexander II to the present. *Prereq.:* Two courses in history or consent of instructor.

HIST-315 Women in Medieval Society, 3 cr. Survey of the status of women in medieval Europe beginning with the settlement of the barbarians and ending with the high middle ages. *Prereq.:* Two courses in history or consent of instructor.

HIST-316 English Legal History, 3 cr. History of the civil (non-criminal) law in medieval and modern England ending with the transformation of the courts, procedure and substantive content of portions of the law in Victorian England. *Prereq.:* Two courses in history or consent of instructor.

HIST-317 The French Revolution, 3 cr. Survey of the French Revolution (1789-1795), with special emphasis on the political and social principles of the Old Regime and the tension between established order and political discontent. *Prereq.:* Two courses in history or consent of instructor.

HIST-318 Communism and Socialism, 3 cr. Study of the modern socialist and communist movements from the French Revolution to the present including the early socialist response to industrialization, Marxism, the development of European Socialism, the First and Second Internationals, Revisionism, Leninism, Socialism in World War I, the Russian Revolution, the Third International and interwar Communism, Communism and Resistance in World War II, Titoism, Maoism, Polycenterism, Eurocommunism and Communism today. *Prereq.:* Two courses in history or consent of instructor.

HIST-319 George Orwell and 20th Century Tyranny, 3 cr. Imperialism, fascism and communism as they are presented by the author of *Animal Farm* and *1984*. with emphasis on the linkage of language and politics in Orwell's writings; McCarthyism and Watergate with an eye to their relevance to Orwell's warnings. *Prereq.:* Two courses in history or consent of instructor.

HIST-320 Colonial History of the United States, 1607 to 1775, 3 cr. The nature of colonial government, town life, literature, as well as a comparison of the development of major colonies; key personalities of the period, such as Benjamin Franklin, Cotton Mather, Jonathan Edwards and Thomas Jefferson are studied in detail; designed for American history majors. *Prereq.:* Two courses in history or consent of instructor.

HIST-321 The American Revolution, 1763 to 1789, 3 cr. Intensive study of the events leading to American Independence; social and political changes accompanying independence; America under the Articles of Confederation; the writing and adoption of the Constitution. *Prereq.:* Two courses in history or consent of instructor.

HIST-322 The Early National Period, 1789-1824, 3 cr. Study of the formative years of the American Republic from the promulgation of the Constitution in 1789 to the end of the

so-called "era of good feeling" in 1824. *Prereq.:* Two courses in history or consent of instructor.

HIST-323 Jacksonian Era and Sectional Crisis 1824-1860, 3 cr. Various political, economic, social, and intellectual developments involved in the rise of Jacksonian Democracy; the growth of democracy at the state and national levels, the new conception of the presidency, economic growth; nationalism, sectionalism and the socioeconomic factors leading to the breakdown of constitutional government and the beginning of the Civil War. *Prereq.:* Two courses in history or consent of instructor.

HIST-324 Civil War and Reconstruction 1860-1877, 3 cr. Study of the Civil War and consequent efforts to reconstruct the divided nation; a series of interrelated and consequential socioeconomic, political and intellectual events which profoundly affected the United States and its subsequent history. *Prereq.:* Two courses in history or consent of instructor.

HIST-325 Industrial and Progressive America 1877-1929, 3 cr. Study of the formative years of modern America from the conclusion of reconstruction, through the Progressive Era and the administration of Herbert Hoover with emphasis on those ideas, institutions and factors which help explain the growth of present urban and industrial America. *Prereq.:* Two courses in history or consent of instructor.

HIST-326 The Era of Franklin D. Roosevelt, 1929-1945, 3 cr. In-depth study of the causes and consequences of the Great Depression, the New Deal response to the crisis, and the road to and involvement in World War II, with special emphasis on the leadership of Franklin D. Roosevelt. *Prereq.:* Two courses in history or consent of instructor.

HIST-327 The United States in the Age of Crisis, 1945 to the Present, 3 cr. General survey of the political, diplomatic, economic and social forces which have developed in the U.S. since 1945 with particular emphasis on the crisis in domestic America. *Prereq.:* Two courses in history or consent of instructor.

HIST-329A African American History to 1865, 3 cr. Thematic survey of the history of Black Americans from the era of slavery to the conclusion of the Civil War with emphasis on racial ideologies, the experiences of both slaves and free people of color, and the abolitionist crusade. *Prereq.:* Two courses in history or consent of instructor.

HIST-329B African American History Since 1865, 3 cr. Thematic survey of the history of Black Americans from the end of the Civil War to the present day with an emphasis on such topics as Reconstruction, African American thought and experience during the era of segregation, the great Migration and Cultural Renaissance of the 20's, and the modern Civil Rights Movement. *Prereq.:* Two courses in history or consent of instructor.

HIST-330A United States Social History, 1607-1865, 3 cr. Introduction to the problems of social history, especially social structure, cohesion, conflict and attitudes applied to the development of American sectional societies from the founding of the colonies to the end of the Civil War with special attention to the variety of forms of social organization and the growth of diversity in American culture. *Prereq.:* Two courses in history or consent of instructor.

HIST-330B United States Social History, 1865-Present, 3 cr. The social dimensions of nationalization and industrialization, with special emphasis on the decline of geographically defined communities, the rise of communities of interest, rationalization of social structures, and the process of alienation. *Prereq.:* Two courses in history or consent of instructor.

HIST-331A Cultural and Intellectual History of the United States, 1607-1865, 3 cr. Introduction to the major ideological systems in the colonial and national periods: political and religious philosophy, as well as key individual thinkers. *Prereq.:* Two courses in history or consent of instructor.

HIST-331B Cultural and Intellectual History of the United States, 1865 to Present, 3 cr. The modern period in intellectual history including social Darwinism, pragmatism, and liberalism. *Prereq.:* Two courses in history or consent of instructor.

HIST-332B United States Foreign Relations, 1914- Present, 3 cr. The United States as a world power, the aftermath of World War I, new relationships with Latin America, Asia and Europe; the United States and the Long Armistice; American involvement in World War II, and the Cold War. *Prereq.:* Two courses in history or consent of instructor.

HIST-333 American Ethnic History, 3 cr. The role of ethnicity in the development of American history, with special emphasis on the era of industrialization and urbanization including all major ethnic and racial groups, Blacks, American Indians, Hispanics, and western and eastern Europeans with attention to the social and cultural experience of slavery, immigration, alienation, social mobility, acculturation and assimilation, politics, and discrimination. *Prereq.:* Two courses in history or consent of instructor.

HIST-334 History of American Sports, 3 cr. The rise of organized sports from its simple pre-modern origins to its present complex state; the evolution of major amateur and professional sports in relation to prevailing historical developments, emphasizing the impact of industrial capitalism and urbanization with attention to the role of ethnic and racial groups, social classes, gambling, gender, politics, international relations, and social mobility. *Prereq.:* Two courses in history or consent of instructor.

HIST-335 History of Crime and Violence in America, 3 cr. Survey of the historic patterns of crime and violence, and the evolution of the criminal justice system in the United States from the colonial era to the present day. *Prereq.:* Two courses in history or consent of instructor.

HIST-337 The History of the South, 1877 to Present, 3 cr. Intensive study of the politics of the South after Reconstruction; the emergence of the industrial South; the Black's place in this new situation, and the rise of segregation at the turn of the century with particular attention to the problem of the Black American and the value system of the South in light of civil rights considerations. *Prereq.:* Two courses in history or consent of instructor.

HIST-338 Women in American History, 3 cr. Survey, from colonial times to the present, of the role of woman in America including women's reform movements. *Prereq.:* Two courses in history or consent of instructor.

HIST-339 A History of the United States Jews, 3 cr. Survey of the experience of Jewish immigrants in the United States from colonial times to the present with emphasis on late 19th and 20th century. *Prereq.:* Two courses in history or consent of instructor.

HIST-340 History of U.S. Economic Institutions, 3 cr. Historical changes from regional markets to national and multinational markets and responses in business institutions, land policies and agriculture; organizations for trade and commerce and for workers; impact of pacesetting industries. *Prereq.:* Two courses in history or consent of instructor.

HIST-341 Issues in Twentieth Century Business History, 3 cr. Topics in the history of organizational changes in the workplace and the corporation; the relationship between government and business; the non-profit sector and philanthropy; the business of mass media. *Prereq.:* Two courses in history or consent of instructor.

HIST-342 The City In American History, 3 cr. General survey of urban America with emphasis on various topics such as the changing function and character of cities, immigration, reform, and urban planning. *Prereq.:* Two courses in history or consent of instructor.

HIST-347B Cinema and Society: American Film 1945-1960, 3 cr. Commercial motion pictures as a reflection of American society after World War II, and before the social tumult of the 1960's; a period of readjustment, of Cold War and political uncertainty, of social expansion, and of emerging new social forces. *Prereq.:* Two courses in history or consent of instructor.

HIST-349 Women In Popular Culture, 3 cr. Movies, television, popular novels, and popular music and their treatment of women's roles, images, and performances. Women writers, singers and actresses, will be studied along with male writers and performers' interpretations of women's roles. *Prereq.:* Two courses in history or consent of instructor.

HIST-350 History of Brazil, 3 cr. Survey of the history of Brazil; pre-Columbian roots in the Western Hemisphere, Western Europe's influence, and the present with emphasis on political and economic developments in the last two centuries. *Prereq.:* Two courses in history or consent of instructor.

HIST-351 Central America and the Caribbean, 3 cr. History of Central America and of the major islands of the Caribbean, emphasizing the period since independence and the relations with the United States. *Prereq.:* Two courses in history or consent of instructor.

HIST-352 History of Puerto Rico, 3 cr. Survey of Puerto Rican history from its pre-Columbian roots to the present, with emphasis on twentieth century developments and attention to contemporary social and economic developments. *Prereq.:* Two courses in history or consent of instructor.

HIST-353 History of Mexico, 3 cr. Early Indian civilization; colonial and national periods with emphasis on race relations, the class structure, the church, latifundia, intellectual life, the revolution, and the impact of industrialization in the twentieth century. *Prereq.:* Two courses in history or consent of instructor.

HIST-354 Contemporary Latin America, 3 cr. A survey of twentieth century political events and socio-economic factors that have shaped Latin America, beginning with the U.S. intervention in the Spanish-American War to the Age of Privatization. *Prereq.:* Two courses in history or consent of instructor.

HIST-360 History of Pre-Modern China, 3 cr. Introduction to the civilizations of China; philosophy, political history, religion, literature, art, and material culture with emphasis on both the specific data and broad interpretations of Chinese history. *Prereq.:* Two courses in history or consent of instructor.

HIST-361 Modern Chinese History, 3 cr. Modern Chinese history; institutional and intellectual changes and developments brought about in China by modernization, rebellion, revolution, and war. *Prereq.:* Two courses in history or consent of instructor.

HIST-362 History of Japan to 1850, 3 cr. The development of Japan from its prehistory until the mid-nineteenth century emphasizing the data of Japanese history and the major paradigmatic approaches to its study. *Prereq.:* Two courses in history or consent of instructor.

HIST-363 History of Japan Since 1850, 3 cr. History of Japan from the mid-nineteenth century, including Japan's opening to the West; the Meiji Restoration, industrialization, constitutional government, imperialism, World War II, the American Occupation, and postwar economic, political, and cultural developments. *Prereq.:* Two courses in history or consent of instructor.

HIST-370 Precolonial Sub-Saharan Africa, 3 cr. Historical survey of Sub-Saharan Africa until the early nineteenth century with emphasis on such topics as state formation and traditional African politics, the historical significance of African culture, the influence of Christianity and Islam, the slave trade, and other consequences of contact with Europe. *Prereq.:* Two courses in history or consent of instructor.

HIST-371 Nineteenth and Twentieth Century Africa, 3 cr. Critical issues in the history of sub-Saharan Africa during the nineteenth and twentieth centuries such as the historical significance of African culture, the structure and function of traditional political institutions, European imperialism, the administration of colonial rule and consequent socioeconomic change, the impact of the world wars, the growth of African nationalist movements and the achievement of independence. *Prereq.:* Two courses in history or consent of instructor.

HIST-372 History of Southern Africa, 3 cr. This course covers the major themes in the history of Southern Africa in the last 200 years. The primary focus is on the lives of Africans and how people shaped their world, especially under the strains of colonialism and apartheid, and in their struggle for independence. Although the country of South Africa will occupy a significant place in the course, important processes like industrialization affected the entire region, and surrounding colonies and countries also will be studied. *Prereq.:* Two courses in history or consent of instructor.

HIST-373 Women and Gender in African History, 3 cr. This course examines the related issues of women and gender in Africa, primarily in the last 200 years. Among the major topics it covers are women's experience in agricultural societies and in urban areas, and their roles as traders, laborers, and political leaders. It will also explore differences among women in Africa, for example in social standing, religion, and ethnicity. *Prereq.:* Two courses in history or consent of instructor.

HIST-380 History of Christianity, 3 cr. Analytical survey of the institutional, social and cultural origins of Christianity and the development of that religion from the ancient world to the present with attention to the dynamics of the relationships between Christianity and the various cultures in which it has been housed. *Prereq.:* Two courses in history or consent of instructor.

HIST-381 History of the Second World War, 3 cr. Intensive study of the Second World War in its global aspects and implications, including post-war developments and the cold war. *Prereq.:* Two courses in history or consent of instructor.

HIST-382 The World In the Twentieth Century, 3 cr. Contemporary world developments, including the causes and consequences of the two world wars, their impact on the non-European world, the rise of World Communism, the breakup of the colonial empires, etc. *Prereq.:* Two courses in history or consent of instructor.

HIST-383A Historical Biography: Early America, 3 cr. Important biographies treating major or representative figures in early American history; the personal, psychological and period forces affecting the behavior of key historical figures. *Prereq.:* Two courses in history or consent of instructor.

HIST-383B Historical Biography: Modern America, 3 cr. Important biographies treating major or representative figures in modern American history; the personal, psychological and period forces affecting the behavior of key historical figures. *Prereq.:* Two courses in history or consent of instructor.

HIST-390 Historical Perspectives, 3 cr. Changing cultural patterns and social structure under the impact of changing technology; concepts and data from anthropology and sociology are used in a historical setting. Consult the Schedule of Classes for specific topics. *Prereq.:* Two courses in history or consent of instructor.

HIST-390A The German-American Experience 1683-1983, 3 cr. Survey of the waves of German immigration to the United States from the first settlers at Germantown, Pennsylvania to the present era with attention to the European events shaping each particular wave of emigrants and the German communities already established in the New World. *Prereq.:* Two courses in history or consent of instructor.

HIST-391 Contemporary Historical Problems, 3 cr. Exploration and analysis of important current political, economic, social, and cultural issues. Consult the Schedule of Classes for specific topics. *Prereq.:* Two courses in history or consent of instructor.

HIST-392 Problems In History, 3 cr. Exploration and analysis of topics in history; relevant sources and scholarly research. Consult the Schedule of Classes for specific topics. *Prereq.:* Two courses in history or consent of instructor.

HIST-393 Pro-Seminar In History, 3 cr. Intensive reading and discussion. Students will be assigned weekly readings, prepare papers, and discuss some major aspect of history. *Prereq.:* Two courses in history or consent of instructor.

HIST-394 Historical Tour, 6 cr. Study of the history of a given region or country in conjunction with an on-the-spot investigation of historical and cultural sites and landmarks. *Prereq.:* Two courses in history or consent of instructor.

HIST-395A Independent Study In History, 3 cr. Intensive study in selected subject and periods of history. *Prereq.:* Two courses in history or consent of instructor.

HIST-395B Independent Study In History, 2 cr. (See HIST-395A for description.) *Prereq.:* Two courses in history or consent of instructor.

HIST-395C Independent Study In History, 1 cr. (See HIST-395A for description.) *Prereq.:* Two courses in history or consent of instructor.

HIST-395D Independent Study In U.S. History, 1 cr. Intensive study in selected subjects and periods in American history. *Prereq.:* consent of instructor.

HIST-396 Internship I, 3 cr. Situates student interns in workplace positions— museums, research organizations, publishers, advertising agencies, government offices, business corporations, etc.—where historical background, analysis, and methodology may be put to practical use. Helps students to improve research skills as well as explore career possibilities. Class consists of at least 8 hours per week at the workplace, in addition to periodic meetings with faculty and other students. *Prereq.:* two courses in history and consent of instructor.

HIST-401 Historiography and Historical Method, 3 cr. Historical understanding; philosophies of history and methods of historical research. *Prereq.:* graduate standing, 18 hours of undergraduate history classes or consent of instructor.

HIST-410 Readings in Medieval History, 3 cr. Intensive reading and discussion on a selected topic in Medieval history, such as the Medieval family, church and state, economic organization, the growth of universities, peasant society or feudal society. Consult the Schedule of Classes for the specific topic. *Prereq:* same as HIST-401.

HIST-411 Readings In Early Modern Europe, 3 cr. Intensive readings and discussions of aspects of European history during the early modern period. *Prereq.:* same as HIST-401.

HIST-412 Readings In English History to 1688, 3 cr. Topics in British history until the Glorious Revolution. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-413 Readings In Tudor History, 3 cr. Topics in British history in the Tudor Period. *Prereq.:* same as HIST-401.

HIST-414 Readings In Modern English History, 3 cr. Intensive readings and discussion on aspects of the history of Modern England. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-415 Readings In 19th Century Europe, 3 cr. Intensive readings and discussion on aspects of nineteenth century European history. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-416 Readings In 20th Century Europe, 3 cr. Intensive readings and discussion on aspects of twentieth century European history. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-417 Readings In History of Weimar and Nazi Germany, 3 cr. Intensive readings and discussion on aspects of Weimar and Nazi Germany. *Prereq.:* same as HIST-401.

HIST-420 Seminar In Early Modern Europe, 3 cr. Research on various topics in the history of early Modern Europe. A

paper based on primary sources is required. *Prereq.:* graduate standing, HIST-401 and one appropriate 400 level reading course.

HIST-421 Seminar In English History, 3 cr. Research on various topics in English history. A paper based on primary sources is required. *Prereq.:* same as HIST-420.

HIST-422 Seminar In 19th Century Europe, 3 cr. Research on various topics in nineteenth century European history. A paper based on primary sources is required. *Prereq.:* same as HIST-420.

HIST-423 Seminar In Modern European Society, 3 cr. Research on various topics in the modern history of Europe. A paper based on primary sources is required. *Prereq.:* same as HIST-420.

HIST-424 Seminar In Impact of War/Revolution In Europe, 3 cr. Research on various topics related to war, revolution and their consequences for European history. A paper based on primary sources is required. *Prereq.:* same as HIST-420.

HIST-430 Readings In Colonial America, 3 cr. Intensive readings and discussion on aspects of Colonial American history. *Prereq.:* same as HIST-401.

HIST-431 Readings In American Revolution, 3 cr. Intensive readings and discussion on aspects of the American Revolution. *Prereq.:* same as HIST-401.

HIST-432 Readings In Early National America, 3 cr. Intensive readings and discussion on aspects of the Early National Period. *Prereq.:* same as HIST-401.

HIST-433 Readings In 19th Century America, 3 cr. Intensive readings and discussion on aspects of nineteenth century American history. *Prereq.:* same as HIST-401.

HIST-434 Readings In 20th Century America, 3 cr. Intensive readings and discussion on aspects of twentieth century America. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-435 Readings In Cultural and Intellectual U.S. History, 3 cr. Intensive readings and discussion on aspects of American cultural and intellectual history. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-436 Readings In Women's History of the United States, 3 cr. Intensive readings and discussions on American Women's history. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-437 Readings In Afro-American History, 3 cr. Intensive readings and discussion on aspects of Afro-American history. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-439 Readings in American Social History, 3 cr. Intensive readings and discussion on aspects of American social history. Consult the Schedule of Classes for specific topics. *Prereq.:* same as HIST-401.

HIST-440 Seminar In Colonial America, 3 cr. Research on various topics in Colonial American history. A paper based on primary sources is required. *Prereq.:* same as HIST-420.

HIST-441 Seminar In American Revolution, 3 cr. Research on various topics in the American Revolution. A paper based on primary sources is required. *Prereq.:* same as HIST-420.

HIST-442 Seminar In Early National America, 3 cr. Research on various topics in the Early National Period. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-443 Seminar In 19th Century America, 3 cr. Research on various topics in nineteenth century America. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-444 Seminar In 20th Century America, 3 cr. Research on various topics in twentieth century America. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-445 Seminar In Cultural and Intellectual U.S. History, 3 cr. Research on various topics in American cultural and intellectual history. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-446 Seminar In Women's History of the United States, 3 cr. Research on various topics in the history of American women. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-447 Seminar In Afro-American History, 3 cr. Research on various topics in Afro-American history. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-449 Seminar In American Social History, 3 cr. Research on various topics in American social history. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-450 Readings In Colonial Latin American History, 3 cr. Intensive readings and discussion on aspects of colonial Latin America to 1825. *Prereq.: same as HIST-401.*

HIST-451 Readings In Modern Latin American History, 3 cr. Intensive readings and discussion on aspects of Modern Latin America, since 1825. *Prereq.: same as HIST-401.*

HIST-452 Seminar In Latin American History, 3 cr. Research on various topics in the history of Latin America. A paper based on primary sources is required. *Prereq.: same as HIST-420*

HIST-453 Seminar In History of Mexico, 3 cr. Research on various topics in the history of Mexico. A paper based on primary sources is required. *Prereq.: same as HIST-420.*

HIST-460 Readings In Modern Japanese History, 3 cr. Intensive readings and discussion on the development of the modern Japanese state and society since the nineteenth century. *Prereq.: same as HIST-401.*

HIST-461 Readings In Classical Chinese History, 3 cr. Intensive readings and discussion on Chinese history from the Archaic Shang period (c. 1200 B.C.) through the seventeenth century. *Prereq.: same as HIST-401.*

HIST-463 Readings In Modern Chinese History, 3 cr. Intensive readings and discussion on various aspects of modern Chinese history from the nineteenth century to the present. *Prereq.: same as HIST 401.*

HIST-470 Readings in African History, 3 cr. This course is designed to provide the graduate students in history an introduction to the field of African history. Students will explore issues of sources and approaches which make African history distinct from other fields. Students will trace the development of African history in the last few decades, examine some of the major subjects, and study the most recent works to see where the field is headed. *Prereq.: same as HIST-401.*

HIST-490 Independent Graduate Study In History, 3 cr. Intensive and guided study in selected subjects and periods of history. *Prereq.: graduate standing and, consent of instructor.*

HIST-496 Internship, 3 cr. Situates student interns in workplace positions—museums, research organizations, publishers, advertising agencies, government offices, business corporations, etc.—where historical background, analysis, and methodology may be put to practical use. Helps students to improve research skills as well as explore career possibilities. Class consists of at least 15 hours per week at the workplace, in addition to periodic meetings with faculty and other students. *Prereq.: graduate standing and consent of instructor.*

HIST-499 Thesis Seminar - History, 6 cr. Guidance of students conducting research and writing a thesis to fulfill requirements for the Master of Arts degree in History. *Prereq.: acceptance to master's degree candidacy in history.*

JUSTICE STUDIES

Mikal Rasheed, Ph.D., Associate Professor, Chair
 Shelley Bannister, J.D., Ph.D., Professor
 Randolph Bowcott, M.A., Assistant Professor
 Loretta Capeheart, Ph.D., Assistant Professor
 Renny Golden, D.Min., Professor
 Nancy Matthews, Ph.D., Associate Professor
 Dragan Milovanovic, Ph.D., Professor
 Theophilus Okosun, Ph.D., Assistant Professor

In Justice Studies we seek to discover the social and historical roots of justice and injustice and examine how popular understandings of these shape public policies, including those of the criminal justice system. We study systematic explanations for the failure (or triumph) of justice in society and explore the potential for transformative justice. Through critical inquiry, social science investigation, and experiential learning, students develop an understanding of social and economic justice issues and critical criminology. We study the structural roots of crime and take up the legal and social concerns of socially disenfranchised communities whose members are often clients of the criminal justice system, including the poor, people of color, women, prisoners, and refugees.

The program makes a special effort to involve and serve community groups. Field experience, focusing on advocacy for community justice and the ethics that inform those practices, complements the academic program.

The Justice Studies major prepares students for human and social service work, research or advocacy positions, law school or graduate school. Criminal justice practitioners who wish to develop a comprehensive understanding of social justice and social policy will find the program well-suited to their needs.

UNDERGRADUATE PROGRAMS

Major in Justice Studies for the Bachelor of Arts Degree

All Justice Studies majors take six required courses plus eighteen credit hours of electives. Please consult your advisor about the sequence of courses.

Required Courses:

JUST-101 Introduction to Social Justice	3 cr.
JUST-202 Justice and Inequality	3 cr.
JUST-241 Skills for Inquiry I	3 cr.
JUST-301 Theories of Justice and Social Change	3 cr.
Electives (six additional courses in Justice Studies)	18 cr.
JUST-345 Practicum	3 cr.
JUST-350 Field Work Seminar	6 cr.
Total	39 cr.

The electives in Justice Studies must be selected in consultation with a faculty advisor and should be chosen in an area of concentration related to the student's academic and career interests.

All students must complete at least 42 credits at the upper division (300) level to graduate. The Justice Studies major includes 30 credits toward this minimum, so students must be sure that their academic plans include at least 12 additional upper division credits from their minor or electives.

Minor in Justice Studies (21 cr. hrs.)

Required Courses:

JUST-201 Introduction to the Criminal Justice System	3 cr.
JUST-241 Skills for Inquiry in the Criminal Justice System I	3 cr.
JUST-312 Theories of Criminal Behavior	3 cr.
JUST-331 Law and Racism in America	3 cr.
Three (3) electives in Justice Studies	9 cr.
Total	21 cr.

Note: The program will accept a maximum of nine (9) transfer credit hours in Justice Studies, Criminal Justice or Criminology from other colleges and/or universities toward the major and three (3) credit hours toward the minor, subject to approval of Chair/Coordinator.

COURSE OFFERINGS

JUST-101 Introduction to Social Justice, 3 cr. Examines the theme of justice as a foundational goal of all social institutions in a democracy. Introduces students to critically examining social injustices, especially in institutions and social structures. In order to arrive at a vision and practice of justice we will study those "acceptable" injustices through the lens of justice and equality for all.

JUST-201 Introduction to the Criminal Justice System, 3 cr. Overview of police, court, and prison practice with attention to class, race, and sex discrimination in the criminal justice system. Emphasis on the relationship between crime and key political and economic structures.

JUST-202 Justice and Inequality, 3 cr. Analysis of gender, race, class, and related inequalities in the context of political economy in the United States. Also focuses on consequent biases in criminal justice and the intersectional nature of discrimination in the delivery of justice. Includes identifying strategies for reducing these injustices. *Prereq.: JUST 101 or consent of instructor.*

JUST-241 Skills for Inquiry I, 3 cr. Development of analytic and writing skills. Introduction to the methodology of the social sciences. Students develop research designs and initiate studies on justice studies topics. Should be taken immediately after JUST-101 or JUST-201. *Prereq.: JUST-101.*

JUST-301 Theories of Justice and Social Change, 3 cr. Explores general theories of social change, such as social evolutionism and historical materialism, and the relationship between social change and the pursuit of justice. The starting point is unjust social structures and processes, leading into analysis of how social change occurs, especially through social movements. *Prereq.: JUST 101 and 202, or consent of instructor.*

JUST-309 Portrayal of Crime in the Media, 3 cr. Analysis of the media's presentation of crime in the 20th century with attention to the historical development of the portrayal of crime and its effect on public attitudes regarding "crime" and the "criminal". Various forms of the media are individually considered, most notably television, film and newspaper.

JUST-311 Women, Crime, and the Criminal Justice System, 3 cr. The position of women in society; theories of female criminality; crimes committed by and against women such as prostitution, rape, woman abuse, and forced sterilization. Treatment of women by various social and criminal justice agencies.

JUST-312 Theories of Criminal Behavior, 3 cr. Historic overview of theories of crime from classical school to currently popular viewpoints including Marxist and radical theories with emphasis on the relationship between theory and criminal justice policy formulation. *Prereq.: JUST-201.*

JUST-313 Prisons and Jails, 3 cr. Study of the historic development of prisons focusing on current practice and emphasizing consequences of expanding the prison population and community based alternatives to incarceration. Field trips.

JUST-314 Police in the Minority Community, 3 cr. Overview of the social, political and economic consequences resulting from historical and contemporary treatment of U.S. minorities by law enforcement personnel with emphasis on the development of policy focusing on police methodology in controlling and creating levels of crime within urban areas. Theoretical and practical issues involving bias, discretion and excessive force.

JUST-315 Proseminar in Criminal Justice, 3 cr. Intensive exploration of topics of interest to justice studies. Consult the Schedule of Classes for specific topics.

JUST-316 Crime, Violence, and Culture, 3 cr. Exploration of interpersonal and structural violence and aspects of culture that promote it. The course considers: the criminalization of some and tolerance of other violence; competing theories of violence; and strategies for reducing and preventing violence.

JUST-320 Independent Study in Criminal Justice, 3 cr. Individual investigation into a topic of the student's choice.

Prereq.: consent of instructor.

JUST-321 Violence Against Women, 3 cr. Overview of the legal, sociological, psychological, and medical aspects of rape, battering and related forms of gendered violence. Explores social and cultural context of violence against women, changing definitions of violence, and the criminalization of sexual assault and family violence, and responses to violence, including the anti-rape and battered women's movements.

JUST-322 Women, Justice, & the Law, 3 cr. A discussion of justice and its intersection with gender. The course focuses on federal statutes and their interpretation, on sexual harassment and employment, and state statutes focusing on family law and criminal law.

JUST-324 Women as Political Prisoners, 3 cr. This course examines the three areas in which women can be defined as political prisoners: 1) women imprisoned for political acts; 2) women imprisoned for self-defense measures; 3) women imprisoned for petty 'economic' crimes such as prostitution.

JUST-325 Women and Revolution: Theories of Justice, 3 cr. Theories of justice informing revolutionary practice with attention to the role played by women in revolution, especially in liberation struggles in Central America. *Prereq.:* A women's studies course.

JUST-326 Juvenile Justice System, 3 cr. Socio-economic analysis of the history of the juvenile justice system in an effort to understand how the system functions and whom it serves.

JUST-327 Immigration Policy and Human Rights Violation in Central America, 3 cr. Immigration & Naturalization Service policy toward Latin American, Haitian, and other third world refugees and the relationship between that policy U.S. support of repressive regimes.

JUST-329 Politics of Punishment, 3 cr. Exploration, from a global perspective of the history, development, and philosophies of punishment and of the debate within the United States and the countries of Western Europe over the purpose of correctional institutions.

JUST-330 Legal Research and Bibliography in Criminal Law, 3 cr. Study of basic reference and source materials. Visits to law libraries are required. Presentation of a written and oral argument.

JUST-331 Law and Racism in America, 3 cr. The nature of racism, its essential features and their relationship to the legal, social, and economic practices in the United States.

Prereq.: JUST-201.

JUST-333 Community Law, 3 cr. General introduction to the impact of law on the public: consumer law, family law, and individual rights.

JUST-334 Criminal Law and Procedure, 3 cr. The basic principles of American criminal law, current issues and controversies surrounding the criminal justice process, and the constitutional rights of the accused. *Prereq.:* JUST-201.

JUST-335 Legal Process, 3 cr. Analysis of common law and the role of precedent with emphasis on appellate courts,

particularly the U.S. Supreme Court.

JUST-337 Workers' Rights and Human Rights, 3 cr. Basic labor law: workman's compensation, unemployment compensation, National Labor Relations Act, etc., discussions on worker influence on factories.

JUST-339 Tenants Rights Clinic, 3 cr. Under the supervision of a licensed attorney, students study issues relating to landlord/tenant disputes and conflicts. Students are trained to define and negotiate such problems.

JUST-342 Skills for Inquiry in the Criminal Justice System II, 3 cr. Continuation of JUST-241. *Prereq.:* JUST-241.

JUST-345 Practicum in Criminal Justice, 3 cr. Specific skills necessary for entry level agency/community work. *Prereq.:* Consent of chairperson. Taken in junior year.)

JUST-350 Field Work Seminar, 6 cr. Application of the specific skills learned in the practicum, as well as other classroom theories and concepts, in an agency/community setting. Two-hundred volunteer hours at work in the field and a 1½ hour weekly seminar. *Prereq.:* completion of all major requirements and consent of chairperson.

LINGUISTICS

Audrey Reynolds, Ph.D., Professor, Chair
 Shahrazad Mahootian, Ph.D., Professor
 Lawrence N. Berlin, Ph.D., Assistant Professor
 Theodora H. Bofman, Ph.D., Professor
 Rory Donnelly, Ph.D., Professor
 Richard Hallett, Ph.D., Assistant Professor
 Judith Kaplan-Weinger, Ph.D., Professor
 William Stone, Ph.D., Assistant Professor
 Marit Vamarasi, Ph.D., Professor

The Department of Linguistics offers courses leading to a Master of Arts degree and a Master of Arts with a concentration in Teaching English as a Second Language. The department also offers courses leading to an undergraduate minor in Linguistics and an undergraduate minor in Linguistics with a concentration in Teaching English as a Second Language.

UNDERGRADUATE PROGRAMS

The Department of Linguistics offers courses leading to a minor in linguistics for liberal arts majors and for prospective elementary school language arts teachers. The department also offers a minor in Linguistics: TESL Concentration for Education majors who wish to apply for State Approval to Teach English as a Second Language. In addition, the department offers courses that are required for students majoring in English education on the Secondary level, and Bilingual-Bicultural Education.

Minor in Linguistics (18 credit hours)

Required Courses: (6 credit hours)

LING-201 Introduction to General Linguistics 3 cr.
 LING-303 Grammars of English 3 cr.

Electives: (12 credit hours)

At least 6 credit hours of electives must be at the 300-level.
Electives must be chosen in consultation with
the departmental advisor 12 cr.
Total 18 cr.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Minor in Linguistics: TESL Concentration (18 credit hours)

Required Courses: (18 credit hours)
LING-201 Introduction to General Linguistics 3 cr.
LING-303 Grammars of English 3 cr.
LING-322 Introduction to Sociolinguistics 3 cr.
LING-340 TESL: Practices and Procedures 3 cr.
LING-321 First and Second Language Acquisition **or**
LING-341 TESL: Principles of Language Teaching .. 3 cr.
LING-343 TESL: Assessment **or**
BLBC-342 Assessment in the Bilingual Classroom .. 3 cr.
Total 18 cr.

Students who select this minor will have taken the courses they need in order to apply for State Approval to Teach English as a Second Language.

Major in English (Secondary Education) for the Bachelor of Arts Degree (45 credit hours)

(27 credit hours of English; 3 credit hours of Speech; 6 credit hours of Reading; 9 credit hours of Linguistics):

Required Courses: (6 credit hours)

LING-201 Introduction to General Linguistics 3 cr.
LING-303 Grammars of English 3 cr.

Electives: (3 credit hours)

(selected from the following): 3 cr.
LING-301 History of the English Language
LING-321 First & Second Language Acquisition
LING-322 Introduction to Sociolinguistics
LING-340 TESL: Practices and Procedures
Total 9 cr.

For a complete description of the degree program in English (Secondary Education), see the English section of this catalog.

GRADUATE PROGRAM**Master of Arts in Linguistics**

The graduate program offers work leading to a master of arts degree in Linguistics. This degree may be taken with a Concentration in Teaching English as a Second Language.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Program Prerequisites:

For students whose native language is English: 9 hours of undergraduate work in one foreign language or equivalent (as interpreted by the graduate advisors.)

For students whose native language is not English: English proficiency demonstrated by a score of 600 on the TOEFL. For those selecting the concentration in TESL, a score of 50 on the Test of Spoken English (TSE) is also required.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level.

Non-thesis option: 36 hours of 400-level course work in linguistics plus a comprehensive examination, based on a reading list, study questions, etc., taken after at least 27 hours of course work have been completed, including all required courses.

Thesis option: 30 hours of 400-level course work in linguistics plus a master's thesis for an additional 6 hours credit plus the departmental comprehensive exam. The thesis option may only be exercised with department approval.

Any special program design, tutorial or independent study must be approved in advance by the graduate advisor.

Course Requirements:

A sequence of required courses for the degree, a sequence of required courses for those wishing the TESL concentration, and the balance of the program in 400-level linguistics electives selected with the approval of the graduate advisor. No more than four courses taken with any one professor may be counted towards the degree.

Required for the degree (12 credit hours)

LING-401 Fundamentals of Modern Linguistics 3 cr.
(may be waived for students with a strong undergraduate background in linguistics and replaced with an additional 400-level elective)
LING-420 Structure of Modern English 3 cr.
LING-426 Advanced Linguistic Analysis 3 cr.
One 400-level Seminar in Linguistics 3 cr.

Electives (24 credit hours)

Selected from the list of 400-level courses approved by the Department advisor. 24 cr.
Total 36 cr.

TESL Concentration:**Required courses (24 credit hours)**

LING-401 Fundamentals of Modern Linguistics 3 cr.
LING-410 Techniques of Teaching ESL 3 cr.
LING-414 Theories of Teaching ESL 3 cr.
LING-420 Structure of Modern English 3 cr.
LING-426 Advanced Linguistic Analysis 3 cr.
LING-446 Sociolinguistics 3 cr.

LING-460 Second Language Acquisition	3 cr.
LING-490 Seminar in Teaching ESL	3 cr.

Electives (12 credit hours)

Selected from the 400-level courses approved by the Department advisor.	12 cr.
Total	36 cr.

Note: It is recommended that students in the TESL Concentration also take LING-468 Assessment of LEP students especially if they wish to apply for State Approval at the elementary or secondary level.

COURSE OFFERINGS

LING-110 Lexicology: The Study of Words, 3 cr. Introduction to the study of words, with particular attention to English from an historical, structural, and sociolinguistic perspective.

LING-120 Language and Human Behavior, 3 cr. Introduction to basic principles of psycholinguistics and sociolinguistics. Subjects covered may include dialect variation, language and the brain, child language acquisition, language and gender, conversational analysis, non-verbal behavioral, pidgins and creoles, and sign language. The course is designed for students having no background in linguistics.

LING-201 Introduction to General Linguistics, 3 cr. Nature and structure of languages and American English in particular. An overview of the description of language systems in terms of phonology (sound systems), morphology (word formation) and syntax (sentence organization). May also include an introduction to the areas of semantics (word meaning), pragmatics (the rules of the use of language in social contexts and conversation), and dialectology (cultural and geographical varieties of language use), and a look at the history of English and its relationship to other languages.

LING-301 History of the English Language, 3 cr. Historical descriptive linguistic survey of English from its origins to modern English. *Prereq: LING-201.*

LING-303 Grammars of English, 3 cr. A descriptive and historical analysis of English grammar. *Prereq: LING-201.*

LING-304 Introduction to Phonology, 3 cr. Introduction to theories of sound patterning in language. Includes articulatory phonetics, phonemics, morpheme structure, phonological feature systems, and topics from generative phonology. *Prereq: LING-201*

LING-320 Language and Culture: Varies, 3 cr. Anthropological, psychological and linguistic study of various aspects of the interconnections of language and culture. Topics may include Japan, Southeast Asia, Thailand, Maya, Latin America, Native American, Afro-American, the hearing impaired. *Prereq: LING-201.*

LING-321 First and Second Language Acquisition, 3 cr. Survey of recent theories and research on children's acquisition of phonological, morphological, syntactic, semantic, and pragmatic systems of their first language. Survey of recent theories and research on second language acquisition. *Prereq: LING-201.*

LING-322 Introduction to Sociolinguistics, 3 cr. A look at language variation based on social contexts. Includes ethnic, regional and social dialects, language and gender, and pidgin and creole language systems. *Prereq: LING-201.*

LING-340 Teaching English as a Second Language: Practices and Procedures, 3 cr. Practices and techniques related to the teaching of English as a second language, in ESL or bilingual education programs; meant for those students who are not yet teaching in the field. *Prereq: LING-201.*

LING-341 Teaching English as a Second Language: Principles of Language Teaching, 3 cr. Theories and principles underlying the teaching of English as a second language to limited-English speaking children and adults. Survey of various methodologies in second language teaching and bilingual education. Reviews relationships between language and culture and discusses the major problems in language education. *Prereq: LING-201.*

LING 343 - TESL Assessment . 3 cr. Testing and Assessment as they relate to limited English proficient students; information on instruments and procedures for testing language and cognitive development; proficiency, placement and achievement testing. Students look at well known standardized testing devices such as the bilingual syntax measure and the TOEFL test, at cultural and instrumental bias in testing, and at procedures for writing and evaluating classroom tests and various test item types. *Prereq.: LING 340 or LING 341.*

LING-345 Linguistics and Reading, 3 cr. Relationship between language structure and the reading process with emphasis on the practical problems such as the variety of dialectally different sound-symbol-correspondences in English, the perception of speech sounds, the reader's interpretation of syntactic and semantic structures, various alphabetic systems for teaching beginning reading, and an analysis of linguistics texts for teaching reading. Designed to be useful to the in-service classroom teacher as well as to undergraduates. *This course is crosslisted as Reading 345 and may be taken for graduate credit with the consent of the graduate advisor.*

LING-360 Seminar in Linguistics: Varies, 3 cr. Advanced study of selected topics in theoretical linguistics. Each student will do a research project and present the result of work done for evaluation. Topics may include the Development of American English, Linguistics and Literature, Semantic Analysis, Advanced Psycholinguistics. *Prereq: consent of advisor.*

LING-401 Fundamentals of Modern Linguistics, 3 cr. Descriptive linguistic study of language; phonemics and phonemic transcriptions; morphemics; word classes; syntactic structures and sentence patterns, dialects, intonations. *Prereq.: graduate standing or consent of the instructor.*

LING-410 Techniques of Teaching English As a Second Language, 3 cr. Survey of techniques specifically relevant to the teaching of English as a second language. Questions relating to the design and sequencing of ESL courses, to procedures for evaluation of ESL students, and to criteria for choosing, adapting and creating teaching materials. *Prereq.: graduate standing, LING-401 and LING-414.*

LING-414 Theories of Teaching English As a Second Language, 3 cr. Survey of theories of the teaching and learning of English as a second or foreign language. A look at the historical growth and development of second language methodologies from grammar-translation and the direct method, through the audio-lingual method and its offspring, and up to the current natural and eclectic period. *Prereq.:* graduate standing.

LING-420 Structure of Modern English, 3 cr. Description and analysis of the major grammatical structures of spoken and written English in light of traditional, descriptivist, and transformational theories. *Prereq.:* graduate standing and LING-401.

LING-422 Phonetics and Phonology, 3 cr. Intensive analysis of the sounds of speech, giving special attention to the organs involved in the articulation of speech sounds, auditory discrimination, phonetic and phonemic transcription, different transcription systems and the development of grammatical theory regarding descriptive phonology. *Prereq.:* graduate standing and LING-401.

LING-426 Advanced Linguistic Analysis, 3 cr. Advanced analysis of the structure of language, including phonology, morphology, syntax and semantics. Each topic will be explored through detailed analysis and comparison of data from a variety of languages in addition to English. *Prereq.:* Graduate Standing and LING-401.

LING-430 Structure of Language, 3 cr. Phonological and grammatical structure of a selected language and its genetic relations to others of its family. Topics may include Farsi, Arabic, Rotuman, and Thai. Consult the Schedule of Classes for specific languages. *Prereq.:* graduate standing, LING-401 and LING-426.

LING-433 Lexicography, 3 cr. Review of the problems and trends of word study in the past, especially the notions surrounding the concepts of authority and usage of language: scrutiny of the various types and sources of English vocabulary; recent linguistic insights considered in the light of their value for various kinds of handbooks. *Prereq.:* graduate standing.

LING-435 Semantic Theory, 3 cr. Survey of the types of meaning in natural languages with special reference to English and of the means that have been employed to study them, especially in English; with special attention on the interrelationship between structural and semantic meaning, and implicit and repressed meaning; obligatory semantic notions in grammatical categories. *Prereq.:* graduate standing and LING-401.

LING-438 Syntactic Theory, 3 cr. The course will examine the history and practice of transformational-generative syntactic theory. *Prereq.:* graduate standing and LING-401.

LING-440 Linguistics and Literacy, 3 cr. Differences between spoken and written languages; the functions of writing in a literate society; writing systems with particular reference to English orthography; current psycholinguistic research on the acquisition of written language skills; pedagogical implications of linguistic views on literacy. *Prereq.:* graduate standing and LING-401.

LING-446 Sociolinguistics, 3 cr. Measurement and establishment of the correlates between linguistic behavior

and social level with special attention to the study of social dialects within an urban setting including social factors affecting language acquisition, and linguistic behavior of groups of different cultural backgrounds. Topics may include language planning and language policy, language attitudes, language and gender, conversational analysis, regional and social dialectology. *Prereq.:* graduate standing and LING-401.

LING-450 First Language Acquisition, 3 cr. Examination of the stages through which a child passes as he/she masters the phonological, morphological, syntactic, and semantic systems of his/her native language, consideration of the various theories which attempt to account for the child's ability to acquire language. *Prereq.:* graduate standing and LING-401.

LING-452 Psycholinguistics, 3 cr. Theoretical studies in the area of linguistics and psychology; possible implications of the form of grammar for the language learning process; survey of relevant research. *Prereq.:* graduate standing and LING-401.

LING-460 Second Language Acquisition, 3 cr. Survey of recent theories and research on second language acquisition and bilingualism especially in relation to the process of second language learning; rationales of various language teaching methodologies and techniques as well as the concepts of transfer and interference, contrastive analysis, and error analysis. *Prereq.:* graduate standing, LING-401, LING-410, LING-414, LING-420 and LING-426.

LING-465 Experiential Preparation for Teaching English as a Second Language, 3 cr. Emphasis on the preparation of materials and the development of teaching strategies for specific ESL classroom uses. Students examine and evaluate commercially prepared and teacher made materials and lesson plans and devise a limited set of materials of their own. Students will either demonstrate these materials or observe their use in an actual classroom or tutoring situation. *Prereq.:* graduate standing, LING-401, LING-410, LING-414, and a B average.

LING-468 Assessment of the Limited English Proficient Student, 3 cr. Testing and assessment as they relate to limited English proficient students; information on instruments and procedures for testing language and cognitive development; proficiency, placement and achievement testing. Students look at well-known standardized testing devices such as the Bilingual Syntax Measure and the TOEFL test; at cultural and instrumental bias in testing; and at procedures for writing and evaluating classroom tests and various test item types. *Prereq.:* graduate standing, LING-410 and LING-414.

LING-472 American English—History and Growth, 3 cr. Phonology, morphology, syntax, lexicon of English in the United States as well as its cultural history with reference to the mother country and the New World, both in colonial and post-revolutionary times. *Prereq.:* graduate standing and LING-401.

LING-473 The English Language—History and Development, 3 cr. Survey of English phonology, morphology, syntax, lexicon and cultural history through Old English, Middle English, early Modern English and recent Modern English, using literary documents for the older periods, and literary as well as spoken records for the most recent times. *Prereq.:* graduate standing and LING-401.

LING-475 Comparative Indo-European Linguistics, 3 cr. Survey of the methods of comparative reconstruction as exemplified in the Indo-European family of languages. *Prereq.:* graduate standing and LING-401.

LING-490 Seminar in Teaching English as a Second Language, 3 cr. Survey of current research in English as a second language with particular emphasis on methodology and evaluation. After extensive readings in the current literature, students will be expected to carry out a project of their own. Topics may include materials preparation, current trends, SLA research, language and culture, bilingual education, vocabulary, and special education. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and completion of LING-401, LING-410, LING-414, LING-420, LING-426, LING-446, LING-460 and a B average.

LING-491 Seminar in Applied Linguistics, 3 cr. Advanced work and individual projects in a selected area of applied linguistics. Topics may include language policy and language planning, linguistic analysis and language learning, linguistics and writing, reading, research design, translation, cross-cultural communication, and discourse analysis. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing, seven courses in linguistics including LING-401, LING-420, LING-426 and a B average.

LING-492 Seminar in Linguistics and Related Fields, 3 cr. Advanced work and individual projects in a selected area of linguistic specialization, such as psycholinguistics, sociolinguistics, bilingualism and creole languages. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing, seven courses in linguistics including LING-401, LING-420, LING-426, and a B average.

LING-493 Seminar in Linguistic Theory, 3 cr. Advanced work and individual projects in a selected area of linguistic theory. Topics may include Readings in Linguistics, Semantics and Syntax. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing, seven courses in linguistics including LING-401, LING-420, LING-426 and a B average.

LING-494 Seminar in Historical Linguistics, 3 cr. Advanced work and individual projects in a selected area of historical linguistics. Topics may include etymology and cultural contexts. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing, seven courses in linguistics including LING-401, LING-420, LING-426 and a B average.

LING-499 Thesis Seminar: Linguistics, 6 cr. Guidance of students conducting research and writing a thesis to fulfill the requirements for the Master of Arts degree in Linguistics. *Prereq.:* candidacy for the Master of Arts in Linguistics, seven courses in linguistics including LING-401, LING-420, LING-426 and a B average.

MATHEMATICS

Joo Koo, Ph.D., Professor, Chair
 Tomasz Bielecki, Ph.D., Associate Professor
 Barry Dayton, Ph.D., Professor
 Lidia Z. Filus, Advanced Degree, Professor
 Marian Gidea, Ph.D., Assistant Professor
 P. Wagala Gwanyama, Ph.D., Associate Professor
 Geraldine Hemmer, Ph.D., Associate Professor
 Anna-Lise Jensen, Ph.D., Associate Professor
 Anna Mitina, Ph.D., Associate Professor
 Paul P. O'Hara, Ph.D., Professor
 Marina Polyashuk, Ph.D., Assistant Professor
 Rakesh K. Rustagi, Ph.D., Associate Professor
 David H. Rutschman, Ph.D., Professor
 Zhonggang Zeng, Ph.D., Associate Professor

The Department of Mathematics offers courses leading to the degrees of Bachelor of Arts, Master of Arts for Elementary Teachers, and Master of Science.

An undergraduate major in mathematics provides preparation for mathematics-related careers and for graduate study. Students may also combine a study of mathematics with teacher education.

UNDERGRADUATE PROGRAMS

The Department of Mathematics offers specializations in the areas of applied mathematics and secondary teaching. For complete details contact the Department of Mathematics (S-214C) for a copy of the Handbook for Majors.

Major in Mathematics for the Bachelor of Arts Degree

Required Courses:

MATH-107 Calculus I	4 cr.
MATH-202 Calculus II	4 cr.
MATH-203 Calculus III	4 cr.
MATH-243 Linear Algebra I	3 cr.
MATH-251 Discrete Mathematics	3 cr.
MATH-340 Computing for Mathematicians	4 cr.

Additional courses in mathematics chosen in consultation with the appropriate departmental advisor	21 cr.
Total	43 cr.

Students wishing to be certified to teach mathematics in secondary schools should consult the Secondary Education section of this catalog.

Elementary Education and Humanities Mathematics Minor

Required Courses:

MATH-107 Calculus I	4 cr.
MATH-202 Calculus II	4 cr.
MATH-243 Linear Algebra I	3 cr.

MATH-251 Discrete Mathematics	3 cr.
MATH-305 Probability and Statistics	3 cr.
Select two of the following:	6 cr.
MATH-312 Foundations of Geometry	
MATH-321 History of Mathematics	
MATH-322 Number Theory	
MATH-331 Foundations of Algebra	
MATH-337 Theory of Equations	
Total	23 cr.

For a complete description of the degree program in Elementary Education, see the Elementary Education section of this catalog.

Minor in Mathematics (21 cr. hrs.)

Required Courses:

MATH-107 Calculus I	4 cr.
MATH-202 Calculus II	4 cr.
MATH-203 Calculus III	4 cr.
MATH-243 Linear Algebra I	3 cr.
Electives: 6 hours of approved 300-level mathematics courses	6 cr.
Total	21 cr.

At least 3 classes in the minor must be taken at Northeastern.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements. Handbooks on both minor programs are available from the Department of Mathematics (S-214C).

GRADUATE PROGRAMS

Master of Science in Mathematics

The M.S. in Mathematics is designed for students with a strong undergraduate background in mathematics wishing to better prepare themselves for careers in applied mathematics or in the teaching of mathematics. Students can concentrate on an area of applied mathematics or on secondary education mathematics. For the latter concentration students may earn up to 12 hours of course work in education, and apply them towards secondary teaching certification. Courses are scheduled to accommodate the evening student.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Students must have 6 undergraduate courses in mathematics after calculus. A student with 4 or 5 courses after calculus may be admitted conditionally at the discretion of the advisor. Students who are less well prepared must complete additional course work before applying to the program.

Requirements for the Degree:

All graduate credits must be at the 400 level, except for a maximum of three 300 level courses specifically approved for graduate degree credits in a given Master's degree

program. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with your program advisor or the Graduate College for details.**

The program consists of ten courses (30 credit hours). Required courses are listed in the department's brochure "Master of Science in Mathematics", which can be obtained at the Department of Mathematics office (S-214C). Students select electives appropriate to their area of concentration in consultation with their advisor.

The department offers concentrations in applied mathematics and secondary mathematics teaching. The applied mathematics concentration can provide sound preparation for careers in applied mathematics, actuarial mathematics, and for two-year college teaching.

As a part of the degree, students will prepare a thesis or a written project for credit. A formal presentation of the paper is required. Students in the applied mathematics concentration must also pass a comprehensive examination covering selected areas.

The student's complete program must be approved by the academic advisor.

Further details are available from the Department of Mathematics.

Master of Arts in Mathematics for Elementary Teachers

The Department of Mathematics offers a Master of Arts (MA) degree in Mathematics for Elementary School Teachers. This program is designed for teachers who wish to improve their level of competence in mathematics or wish to serve as Elementary School Mathematics Specialists, Coordinators of Elementary School Mathematics Programs, or Teachers of Junior High or Middle School Mathematics.

The MA program is mathematics-content oriented. Through the study of advanced Mathematics, students gain an understanding of underlying concepts that will help improve their teaching of Mathematics. To complete the degree students must complete 30 credit hours of course work. The degree requirements also include a comprehensive final exam. Students may complete the program in two years by enrolling in two courses during each of the fall and spring semesters and one course during each summer. Candidates may consult the Department of Mathematics for further information about the program.

Requirements for Admission to the Program:

The requirements for admission into the MA program are:

1. Students must fulfill the requirements for admission to the Graduate College.
2. Students must have a current Illinois Teaching Certificate for K-9 or equivalent .
3. Students must have successfully completed 6 - 15 credit hours of college mathematics content courses.

Requirements for the Degree:

All graduate credits must be at the 400 level, except for a maximum of three 300 level courses specifically approved for graduate degree credits in a given Master's degree program. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with your program advisor or the Graduate College for details.**

All courses must be chosen in consultation with the MA advisor.

Core Courses: 15 cr

MATH-408 Mathematics Structures for Elementary School Teachers I	3 cr.
MATH-409 Mathematical Functions for Elementary School Teachers	3 cr.
MATH-435 Mathematics Structure II	3 cr.
MATH-438 Elementary Probability and Statistics for Teachers	3 cr.
MATH-439 Computers in Education	3 cr.

Electives: 15 cr

Select 5 courses from the following
(At least one course in Education is required and no more than 3 courses in Education will be allowed):

MATH-401 Number Theory for the Elementary School Teacher	3 cr.
MATH-402 Modern Algebra for the Elementary School Teacher	3 cr.
MATH-403 Modern Geometry for the Elementary School Teacher	3 cr.
MATH-410 Modern Analysis for the Elementary School Teacher	3 cr.
MATH-457 Recent Trends in Mathematics	3 cr.
MATH-495 Project in Mathematics	3 cr.
TED-ELED-403 Problems in Elementary Mathematics Instruction	3 cr.
TED-ELED-414 Principles of Curriculum Development	3 cr.
TED-ELED-418 Classroom Problems in Teaching-Learning Process	3 cr.
TED-SCED-401M New Directions in Teaching Math. in Jr. and Sr. High	3 cr.
TED-SCED-408 The Nature of Mathematical Abilities in School Children	3 cr.
TED-SCED-409 Teaching Mathematical Problem Solving in the Secondary School	3 cr.
TED-SCED-421M Research in Classroom Teaching of Math	3 cr.
EDFN-421 Found. of School Administration and Organization	3 cr.
Total	30 cr.

Examination:

A student in the MA program must take a Final Comprehensive Examination. The Comprehensive Examination is offered twice per year, and may only be taken after satisfactory completion of the core courses.

COURSE OFFERINGS

SPECIAL NOTES:

All Students: A grade of C or better is required in all mathematics courses used as prerequisites for other mathematics courses.

MATH-102 Intermediate Algebra, 4 cr. Topics include word problems, linear equations and inequalities, formulas, systems of linear equations, polynomials, factoring, algebraic fractions, radicals, quadratic equations, and an introduction to logarithms. This course is equivalent to the second year of high school algebra. *Prereq.: MATH-DEV-091 or placement test.*

MATH-103 Mathematics for Elementary Teachers I, 3 cr. Study of mathematical concepts appropriate for grades K through 6. Sets, numbers, geometry. Only for students majoring in early childhood education or elementary education. *Prereq.: MATH-102 or placement test.*

MATH-104 College Algebra, 3 cr. (For students who have completed geometry and at least three semesters of algebra in high school.) Basic algebra review; linear and quadratic equations, sequences and series, complex numbers, theory of equations, matrices, non-linear equations, conic sections. This course is not preparatory for calculus. *Prereq.: MATH-102 or placement test.*

MATH-105 Trigonometry, 3 cr. The trigonometric functions; solutions of triangles; identities and equations; complex numbers and DeMoivre's theorem; conic sections; polar coordinates; solid analytic geometry. *Prereq.: MATH-102 or placement test.*

MATH-106 Precalculus Mathematics, 4 cr. A functional approach to College Algebra and Trigonometry, for students who intend to continue with Calculus I. *Prereq.: MATH-102 or placement test.*

MATH-107 Calculus I, 4 cr. Introduction to analytic geometry, limits and derivatives, applications, integration, fundamental theorem of calculus. *Prereq.: MATH-106 or equivalent.*

MATH-108, College Mathematics I, 3 cr. The purpose of this course is to introduce the students to several of the mathematical tools that are used in all areas of mathematics including subjects that are strongly mathematics driven; these tools facilitate (1) problem-solving in mathematics and (2) mathematical communication and connection with other branches and other discipline. Graphing calculator will be required and used to facilitate better understanding of some mathematical models, algorithms and applications. Other topics include expressions, mathematical functions, equations, inequalities and complex numbers. *Prereq: MATH-102 or consent of instructor*

MATH-109 College Mathematics I, 3 cr. The purpose of this course is to introduce the new teachers to the structure of Mathematics which include: mathematical reasoning; mathematical communication and connection with other branches and other discipline; and problem-solving. Topics: number theory, combinatorics, geometry, probability and statistics, mathematics of finance. *Prereq: MATH-108*

MATH-110 Finite Mathematics for Business and the Social Sciences, 4 cr. Introduction to matrices, linear programming and probability with emphasis on mathematical

models in the social, managerial and behavioral sciences and mathematics of finance. *Prereq.: MATH-102 or placement test.*

MATH-111 Business Calculus I, 4 cr. Elements of analytic geometry, differential and integral calculus with application to business, economics and finance. *Prereq.: MATH-110*

MATH-112 Statistics in Daily Life, 3 cr. Process of classifying and drawing conclusions from data obtained from observations, experiment, or sampling. Decision making under uncertainty with emphasis on the behavioral fields. Study of frequency distributions and their use in the decision making process. Usage of computer and prepared software plus a graphic calculator (TI-83 or equivalent) is required. *Prereq.: MATH 102*

MATH-160 Precalculus Seminar, 1 cr. Enrichment seminar accompanying MATH-106. Students do problem solving in collaborative learning groups on material derived from and supplementing Precalculus to gain a deeper understanding of concepts and applications. *Prereq.: Restricted to students taking MATH-106 concurrently.*

MATH-161 Calculus I Seminar, 1 cr. Enrichment Seminar accompanying MATH 107. Students do problem solving in collaborative learning groups on material derived from and supplementing Calculus I to gain a deeper understanding of concepts and applications. *Prereq.: Restricted to students taking MATH-107 concurrently.*

MATH-202 Calculus II, 4 cr. Integration techniques, applications, differential equations and series. *Prereq.: MATH-107.*

MATH-203 Calculus III, 4 cr. 3-D analytic geometry, partial derivatives, multiple integrals, and vector fields. *Prereq.: MATH-202.*

MATH-243 Linear Algebra I, 3 cr. Matrices and systems of linear equations, analytic geometry in n-space, introduction to vector spaces, linear transformations, determinants and eigenvectors. *Prereq.: MATH-107.*

MATH-251 Discrete Mathematics, 3 cr. Introduction to basic concepts of mathematics and mathematical reasoning. Logic, sets, counting techniques, number theory, mathematical induction, relations, and functions. *Prereq. or Coreq.: MATH-107.*

MATH-262 Calculus II Seminar, 1 cr. Enrichment Seminar accompanying MATH-202. Students do problem solving in collaborative learning groups on material derived from and supplementing Calculus II to gain a deeper understanding of concepts and applications. *Prereq.: Restricted to students taking MATH-202 concurrently.*

MATH-275 Statistics, 3 cr. Process of classifying and drawing conclusions from data obtained from observation, experiment, or sampling. Decision-making under uncertainty with emphasis on the behavioral fields. Study of frequency distributions and their use in the decision-making process. Usage of computer software is required. *Prereq.: MATH-102.*

MATH-301 Ordinary Differential Equations I, 3 cr. An introduction to Ordinary Differential Equations and applications. General first order and second order linear differential equations, linear systems of differential equations and numerical methods. *Prereq.: MATH-203.*

MATH-302 Ordinary Differential Equations II, 3 cr. Linear and nonlinear systems, matrix methods and applications to problems in the sciences. Existence and stability theory.

Boundary value problems and Fourier series. *Prereq.: MATH-301.*

MATH-303 Partial Differential Equations, 3 cr. Introduction to partial differential equations and methods of finding solutions. *Prereq.: MATH-301.*

MATH-304 Introduction to Numerical Analysis, 3 cr. Solutions of equations of one variable, interpolation and polynomial approximation, numerical integration and methods of solutions of linear systems. *Prereq.: MATH-203, MATH-340 and MATH-243.*

MATH-305 Probability and Statistics, 3 cr. Fundamentals and axioms; probability spaces; combinatorial probability; conditional probability; random variables; binomial, Poisson, uniform, normal, chi-square, Student's t-distribution; central limit theorem; Statistical Data Analysis: descriptive statistics, point and interval estimation, elements of hypothesis testing, small vs. large samples. *Prereq.: MATH-202.*

MATH-306 Linear Programming and Extensions, 3 cr. Linear programming models; geometric and algebraic foundations of the simplex algorithm; duality theory; the revised and dual algorithms; sensitivity analysis; integer programming. *Prereq.: MATH-203 and MATH-243.*

MATH-307 Probability Models for Operations Research, 3 cr. Basic mathematical aspects of probability models with emphasis on problem solving. Topics include Markov processes, Markov Chains and Queuing Theory. *Prereq: Math-305.*

MATH-309 Numerical Analysis II, 3 cr. Iterative methods for linear and non-linear systems of equations, approximation of eigenvalues, initial value problems, ordinary and partial boundary value problems and approximation theory. *Prereq.: MATH-304.*

MATH-312 Foundations of Geometry, 3 cr. Axiomatic systems and models of geometries. Projective and transformational geometry. *Prereq: MATH 243 and MATH 251.*

MATH-321 History of Mathematics, 3 cr. Chronological survey of the growth of mathematical ideas, and of famous mathematicians and their contribution to the development of modern mathematics. *Prereq.: MATH-243 and MATH-251.*

MATH-322 Number Theory, 3 cr. Properties of rational integers, congruences, quadratic residues, and Diophantine equations. *Prereq.: MATH-243 and MATH-251.*

MATH-324 Independent Study in Mathematics, 3 cr. Individual investigation into a topic of interest of the student's choice. *Prereq.: consent of instructor.*

MATH-326 Real Analysis, 3 cr. An introduction to the methods of classical analysis as applied to the formulation of the theory of Riemann integrable functions and to the theoretical examination of the behavior of sequences and series of functions of a real variable. *Prereq.: MATH-338.*

MATH-328 Complex Variables, 3 cr. Introduction to the functions of a complex variable: Cauchy-Riemann equations, Cauchy integral theorems, and series expansions. *Prereq.: MATH-338 or MATH-339.*

MATH-331 Foundations of Algebra I, 3 cr. Introduction to abstract algebraic systems: groups, rings, fields, permutations, and polynomials. *Prereq.: MATH-243 and MATH-251.*

MATH-332 Foundations of Algebra II, 3 cr. Continuation of topics addressed in MATH-331; Galois theory. *Prereq.: MATH-331.*

MATH-334 Mathematical Statistics I, 3 cr. Fundamentals of probability, expectations, moment generating functions, distributions: binomial, hypergeometric, geometric, negative binomial, poisson, uniform, gamma, exponential, chisquare, normal, beta, student-t, F, central limit theorem, convergence in distribution. *Prereq: MATH-203 and MATH-305*

MATH-336 Mathematical Statistics II, 3 cr. Study of estimation procedures including point and interval estimation, tests of hypotheses, general procedures for developing tests.

Prereq.: MATH-334.

MATH-337 Theory of Equations, 3 cr. Study of algebraic equations, existence and properties of solutions; algebraic methods of solution; numerical and algorithmic methods of solution. *Prereq.: MATH-202 and MATH-251.*

MATH-338 Advanced Calculus: Single Variable, 3 cr. Advanced treatment of topics from single variable calculus, differentiation, integration, power series, improper integrals, gamma functions and Laplace transforms with emphasis on both theory and applications. *Prereq.: MATH-203 and MATH-251.*

MATH-339 Advanced Calculus: Multi-variable, 3 cr. Advanced treatment of topics from the calculus of several variables using topology and linear algebra as tools. Partial differentiation, multiple integration, Green's theorem are treated both theoretically and with a view towards applications.

Prereq.: MATH-203 and MATH-243.

MATH-340 Computing for Mathematicians, 4 cr. Fundamentals of computer programming, experimentation, and simulation in mathematics with Maple and Fortran programming language. Introduction to documentation, electronic communication and problem solving in mathematical sciences. No prior computer skills required. *Coreq.: Math-202*

MATH-343 Linear Algebra II, 3 cr. A continuation of MATH-243 with emphasis on computational methods and applications, LU, QR and SVD Factorizations. *Prereq.: MATH-203 and MATH-243.*

MATH-365 Statistical Computer Packages, 3 cr. Study of topics from current statistical packages such as SAS, SPSS, BMDP, and MINITAB. *Prereq.: MATH-334 and MATH-340.*

MATH-401 Number Theory for the Elementary School Teacher, 3 cr. Divisibility, factorization and congruences together with associated theorems. Linear diophantine equations; linear congruences and systems of linear congruences; Fermat's Little theorem; Wilson's theorem; Quadratic congruences and other selected topics of interest. *Prereq.: graduate standing and MATH-435.*

MATH-402 Modern Algebra for the Elementary School Teacher, 3 cr. Sets, relations, binary operations, algebraic systems, modular arithmetic, groups, semigroups, and fields.

Prereq.: graduate standing and MATH-435.

MATH-403 Modern Geometry for the Elementary School Teacher, 3 cr. The relations: congruence, parallelism, similarity as defined on varied sets of geometric models; convexity; measurements; constructions; geometric inequalities; and

applications. *Prereq.: graduate standing and MATH-435.*

MATH-406 Linear Programming: Theory and Practice, 3 cr. Optimization models; theoretical foundations of simplex algorithms and duality; revised and dual algorithms; sensitivity and analysis; additional topics from extended LP integer programming, networks, recent trends. *Prereq.: graduate standing.*

MATH-408 Mathematics Structures for Elementary School Teachers I, 3 cr. Mathematics topics and techniques that are relevant to advanced mathematics learning and the teaching of mathematics in the schools: Elementary logic, elementary sets, binary operations, introduction to algebraic structures, number systems, geometry and elements of graph theory. *Prereq.: Admission to the MA program in Mathematics*

MATH-409 Mathematical Functions for Elementary School Teachers, 3 cr. For elementary school teachers. The function concept; polynomial functions; solution of linear and quadratic equations; simultaneous equations; the binomial theorem; circular functions; solution of triangles; trigonometric identities and equations; exponential and logarithmic functions; rectangular and polar coordinate systems; the conic sections. Graphics calculator required. *Prereq.: MATH 408*

MATH-410 Modern Analysis for the Elementary School Teacher, 3 cr. Limits and continuity, derivatives, applications, integral calculus, applications. *Prereq.: graduate standing and MATH-435.*

MATH-421 Modern Geometry, 3 cr. Classification of geometrical systems; introduction to Euclidean and non-Euclidean geometries, projective geometry; finite geometries. *Prereq.: graduate standing, MATH-312, or consent of instructor.*

MATH-430 Discrete Mathematical Structures, 3 cr. Provides a working knowledge of mathematical logic, sets, relations, functions, graphs, and counting techniques. *Prereq.: admission to the MS Mathematics program.*

MATH-435 Mathematics Structure II, 3 cr. The real number system, mathematical systems, inductive and deductive methods, permutations and combinations. *Prereq.: graduate standing and MATH-408.*

MATH-438 Elementary Probability and Statistics for Teachers, 3 cr. Frequency distributions, measure of central tendency, mean, variance and standard deviation, probability, random variables, Binomial distribution, Normal distribution, Central Limit Theorem, confidence intervals for mean and proportion, hypothesis testing for mean and proportion, analysis of variance, and applications. *Prereq.: graduate standing, MATH-409 and MATH-435.*

MATH-439 Computers in Education, 3 cr. Investigation into the use of computers for CAI, statistical packages and solutions of mathematical problems. Students learn to write programs in Basic. *Prereq.: graduate standing and MATH-438.*

MATH-441 Multivariate Statistical Analysis, 3 cr. The essential methods of the multivariate statistical analysis; Hotelling's T, discriminant function, principal components, factor analysis, canonical correlations and cluster analysis with emphasis on applications and real data analysis. *Prereq.: graduate standing and MATH-336.*

MATH-442 Applied Regression Analysis, 3 cr. Methodology of regression analysis with attention to model building, evaluating fit, and examining reliability of the model; regression and general least squares theory, estimation of regression coefficients, polynomial regression, step-wise regression, residual analysis, choice of transformation for variables and forecasting; with applications and real data analysis. *Prereq.:* graduate standing and MATH-336.

MATH-443 Experimental Design, 3 cr. One-way and two-way analysis of variance, fixed and random effects models, multiple comparisons, completely randomized and randomized block designs. *Prereq.:* graduate standing and MATH-336.

MATH-457 Recent Trends in Mathematics, 3 cr. Extended applications of mathematical thinking, operations research, mathematical models, information theory, theory of games, and linear programming. *Prereq.:* graduate standing and MATH-435.

MATH-464 Advanced Topics in Real Analysis, 3 cr. Possible topics include measure and integration, functional analysis, Banach algebras, topological groups, calculus of variations, constructive real analysis, non-standard real analysis. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and MATH-326.

MATH-465 Advanced Topics in Numerical Analysis, 3 cr. Possible topics include numerical linear algebra, iteration methods and convex programming, numerical methods for ordinary and partial differential equations, functional approximation and data analysis, digital spectral analysis, design and analysis of mathematical software, and mathematical methods in computer graphics. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and MATH-304.

MATH-467 Advanced Topics in Algebra, 3 cr. Possible topics include group theory, ring theory, field theory, linear algebra, categorical algebra and lattice theory. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and MATH-436.

MATH-469 Advanced Topics in Mathematical Statistics, 3 cr. Possible topics include simultaneous stochastic equations models, multivariate analysis, analysis of variance and covariance, non-parametric statistics, Bayesian inference, and sampling theory. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and MATH-336.

MATH-471 Introduction to Stochastic Models, 3 cr. Markov Chains: the Poisson process; continuous time Markov processes; Renewal Theory; Queueing Theory. *Prereq.:* graduate standing and MATH-305.

MATH-472 Simulation Modeling and Analysis, 3 cr. Design and analysis of computer simulations of complex systems. Network, discrete event and continuous models are treated in a unifying setting. Computer models of a variety of systems are implemented and analyzed using a general purpose simulation language. *Prereq.:* graduate standing, MATH-305.

MATH-473 Advanced Topics in Operations Research, 3 cr. Possible topics include: applied graph theory; non-linear programming; the mathematics of time series analysis; advanced topics in series analysis; advanced topics in

simulation and modeling. *Prereq.:* varies with topic.

MATH-474 Mathematical Modeling, 3 cr. Formulation, analysis and interpretation of mathematical models describing phenomena from the natural and social sciences. Topics may include: model construction, explicative versus predictive models, model fitting, optimization, empirical models, simulation models, dynamical models, dimensional analysis and other related topics. A term project (team or individual) will be required. *Prereq.:* Acceptance into the Master of Science in Mathematics program.

MATH-491 Independent Study in Mathematics, 1 cr. Individual investigation into a topic of interest of the student's choice. *Prereq.:* graduate standing and consent of instructor.

MATH-492 Independent Study in Mathematics, 2 cr. (See MATH-491 for description.)

MATH-493 Independent Study in Mathematics, 3 cr. (See MATH-491 for description.)

MATH-494 Thesis Seminar—Mathematics, 6 cr. Students conduct research and write a thesis to fulfill requirements for the Master of Science degree. *Prereq.:* acceptance to degree candidacy for the Master of Science in Mathematics and approval of the department.

MATH-495 Project in Mathematics, 3 cr. Students prepare a project involving both the theory and computational tools learned in their concentration. Students present both written and oral reports to the department. *Prereq.:* acceptance to degree candidacy for the Masters in Mathematics, and approval of the department.

MEXICAN/CARIBBEAN STUDIES

Minor in Mexican/Caribbean Studies (18 cr. hrs.)

The Mexican/Caribbean Studies Minor is an interdisciplinary program designed to help students:

1. understand the role played by the Mexican/Caribbean peoples in the modern world;
2. appreciate the similarities and differences among various Mexican/Caribbean peoples;
3. understand the socio-political and economic conditions under which Mexican/Caribbean peoples live;
4. develop knowledge of and appreciation for the language and literature of the Mexican/Caribbean peoples; and
5. become familiar with careers that could potentially serve the needs and interests of Mexican/Caribbean peoples.

Required Courses:

ELAD-ICSE-201 History and Culture of
Ethnic Groups in America 3 cr.
Electives 15 cr.

Electives are chosen from a list of selected courses listed below. Of the fifteen required credit hours, nine must demonstrate thematic consistency. A minimum of nine credit hours must be at the 300-level. Courses must be distributed among three or more different disciplines or departments. Electives must be chosen with the consent of the program advisor.

Anthropology

- ANTH-216 Latin American Archeology
 ANTH-308 Peoples of Mexico, Central America
 and the Caribbean
 ANTH-341 Culture and Poverty

Justice Studies

- JUST-313 Prisons and Jails
 JUST-314 Police in the Minority Community
 JUST-315 Pro Seminar in Criminal Justice
 JUST-327 Immigration, Policy and Human Rights
 Violation in Central America

Teacher Education

- TED-BLBC-338 Bilingualism and Education
 TED-BLBC-342 Methods of Teaching Language
 Diverse Students
 TED-ELED-315 Teaching in the Inner City Elementary School
 TED-ELED-338 Bilingualism and Education
 TED-SCED-FL-303 Teaching Modern Foreign Language
 in the Secondary School

Leadership and Development

- ELAD-LEAD-205 Social Foundations of Education
 ELAD-LEAD-314 Social Issues in Educational Settings

English

- ENGL-365 West Indian Literature
 (Discovery of the Caribbean Islands)

Foreign Language (Spanish)

- FL-SPAN-224 Intensive Reading of Spanish
 FL-SPAN-240 Extensive Reading in Spanish
 FL-SPAN-325 Spanish Seminar
 FL-SPAN-329 Introduction to Spanish American
 & Spanish Literature
 FL-SPAN-330 La Cultura Hispanoamericana
 a Traves de la Musica
 FL-SPAN-331 Hispanic World Culture
 FL-SPAN-332 Generation de 1898
 FL-SPAN-333 Contemporary Spanish/American Novel
 FL-SPAN-352 Puerto Rican Literature
 FL-SPAN-354 Spanish American Literature
 FL-SPAN-356 Realism and Naturalism
 in Spanish American Literature
 FL-SPAN-358 El Modernismo
 FL-SPAN-364 The Hispanic American of Chicago
 FL-SPAN-365 Spanish American Seminar
 FL-SPAN-409 Seminar in 20th Century
 Spanish/American Literature

Geography & Environmental Studies

- G&ES-302 Regional Geography

Health, Physical Education Recreation & Athletics

- HPER-PESV-127 Latin American Dance

History

- HIST-204 Latin America to 1825
 HIST-206 Introduction to Chicano History
 HIST-332B U.S. Foreign Relations
 HIST-333 American Ethnic History

- HIST-336 Chicanos in American History
 HIST-345 American Culture in the 1960s
 HIST-354 Contemporary Latin America

Inner City Studies

- ELAD-ICSE-201 History and Culture of Ethnic Groups
 ELAD-ICSE-329 Pro-Seminar in Inner City Americans
 ELAD-ICSE-329I History and Culture of the Caribbean
 ELAD-ICSE-339J The Caribbean City
 ELAD-ICSE-329X Political Progress of
 Mexican American Communities
 ELAD-ICSE-331 Literatures of Ethnic Groups

Linguistics

- LING-320 Language and Culture: Varies

Music

- MUS-DANC-131 Introduction to Spanish Dance
 MUS-DANC-161 Spanish Dance I
 MUS-DANC-203W Field Experiences: Hispanic Dance
 MUS-DANC-261 Spanish Dance II

Philosophy

- PHIL-291 Philosophical Foundation of Oppression

Political Science

- PSCI-365 Politics and Governments in Mexico,
 Central America and the Caribbean
 PSCI-366 Politics and Governments in South America

Social Work

- SWK-202 Community Analysis
 SWK-203 Analysis of a Cross Cultural
 Interaction Community

Sociology

- SOC-216 Contemporary American Institutions
 SOC-270 Sociology of the Latina
 SOC-310 Revolution and Conflict
 SOC-357 Pro-Seminar in Sociology

MUSIC

R. Shayne Cofer, Ph.D., Associate Professor, Chair
 Peter Chang, Ph.D., Associate Professor
 Ronald Combs, D.M.A., Professor
 Phyllis Hurt, D.M.A., Professor
 Libby Komaiko, B.A., Professor (Dance)
 James A. Lucas, D.M.A., Professor
 Elyse J. Mach, Ph.D., Professor
 Nelson Mandrell, D.M.A., Associate Professor
 Vincent Oddo, Ph.D., Professor
 Constance J. Speake, D.M.A., Professor
 Venetia Stifler, Ph.D., Associate Professor (Dance)
 Mikhail Yanovitsky, D.M.A., Assistant Professor

The department of Music is comprised of two divisions: music and dance. We are a creative and performing arts unit made up of performers, composers, conductors, choreographers, theorists, musicologists and music education specialists who are dedicated to teaching in a student centered community of artist learners where all aspects of musical creativity and

expression are encouraged in tandem with development of skills sensitivities and technical knowledge required of the professional musician and dancer.

The Department of Music offers courses leading to the degrees of Bachelor of Arts and Master of Arts.

Undergraduate programs are available in:

- Performance
- Theory
- Piano Pedagogy
- Music History and Literature
- K-12 Music Education: Vocal; Instrumental

Graduate programs are available in:

- Music Education
- Applied Music Pedagogy

Minors available are:

- Individualized Music Minor
- Music Education for Elementary Ed. majors
- Individualized Dance Minor

Undergraduate Admission

The music major curriculum is designed to begin the first term of the freshman year. Students intending to major in music should contact the department to arrange an interview/audition for admission to the program. Majors should declare in the first term of enrollment at the University.

Students applying to the major are assumed to have a background which includes music reading ability and performance experience. Those without such a background will need to complete additional preparation which may extend the time to graduation.

Transfer students

Transfer students should request a departmental evaluation of transferred credits for acceptance toward major or minor requirements during their first term of enrollment.

Program Advisors

Each music major and minor is assigned a faculty advisor who guides the student in selecting courses and in fulfilling academic and departmental requirements for graduation. Majors must obtain their advisor's approval for each registration.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

Departmental Requirements

In addition to completing course requirements, music majors and minors must fulfill departmental requirements for graduation.

Ensemble Requirement: Except while student teaching, music majors are required to enroll in a large ensemble every semester they are enrolled in the university. Graduate students must complete three semesters of an ensemble.

Concert Attendance: Recorded attendance at Department of Music sponsored events is required of all majors and minors. Music majors must attend a total of 25 concerts, and music minors must attend a total of 15 concerts. It is the student's responsibility to submit attendance validation records. Concerts in which the student participates are not counted towards the attendance total.

Convocation: Music majors are required to attend the monthly Department of Music Convocation, which is scheduled during activity hour (Tuesday / Thursday 1:40 - 3:00 p.m.).

Students in Applied Music are not permitted to study simultaneously with two teachers in the same field. Students taking Applied Lessons must be music majors, minors or registered in an ensemble. Students may audition for 300-level applied music upon achieving junior standing (60-89 hrs.). Students must earn a grade of "C" or higher in all courses counted toward major or minor requirements.

Computer Literacy/Technology: Music majors are required to satisfy the department Computer Literacy/Technology requirement prior to graduation. Consult the department office.

UNDERGRADUATE PROGRAMS

Major in Music for the Bachelor of Arts Degree

Emphasis I: Vocal and Instrumental Performance

Required Courses:

MUS-121 Music Theory I*	3 cr.
MUS-122 Music theory II*	3 cr.
MUS-201 Music Theory III*	3 cr.
MUS-202 Music Theory IV* or	
MUS-301 Counterpoint I	3 cr.
MUS-124 Sight Singing and Ear Training I*	2 cr.
MUS-125 Sight Singing and Ear Training II*	2 cr.
MUS-203 Music Before 1600	3 cr.
MUS-204 Music From 1600 through Beethoven	3 cr.
MUS-205 Music after Beethoven	3 cr.
MUS-223 Instrumental Conducting or	
MUS-224 Choral Conducting	2 cr.
Applied Music in the major	
performance area	20 cr.
Private study in voice or instrument.	
At least twelve credit hours are selected from:	
MUS-351 Applied Music	1 cr.
MUS-352 Applied Music	2 cr.
MUS-353 Applied Music	3 cr.
MUS-354 Applied Music	4 cr.
Piano**	6 cr.
MUS-112 Class Piano I*	2 cr.
MUS-113 Class Piano II*	2 cr.
MUS-114 Class Piano III or	
MUS-152W Applied Music: Piano	2 cr.
Applied Music in a secondary	
area of performance	6 cr.
Study of one or more areas of performance in addition to the major performance area.	
Elective	3 cr.
It is strongly suggested that students take	
a music history and literature course relating to	
their major performance area	
Total	62 cr.

* Music Majors take the following courses concurrently: Theory I and II (MUS-121 and 122) are taken concurrently with Class Piano I and II (MUS-112 and 113). Students with piano skill may audition for advanced placement. Theory III and IV (MUS-201 and 202) are taken concurrently with Sight Singing and Ear Training I and II (MUS-124 and 125).

**Piano Majors must replace MUS-112, MUS-113 and MUS-114 with:

MUS-127 Harmony and Ear Training at the Keyboard I	2 cr.
MUS-128 Harmony and Ear Training at the Keyboard II	2 cr.
Elective	2 cr.

NOTE: Performance majors must present a senior recital or extended jury.

Emphasis II: Music Theory

Required Courses:

MUS-121 Music Theory I*	3 cr.
MUS-122 Music Theory II*	3 cr.
MUS-201 Music Theory III*	3 cr.
MUS-202 Music Theory IV*	3 cr.
MUS-301 Counterpoint I	3 cr.
MUS-302 Counterpoint II	3 cr.
MUS-305 Form and Analysis I	3 cr.
MUS-306 Form and Analysis II	3 cr.
MUS-124 Sight Singing and Ear Training I*	2 cr.
MUS-125 Sight Singing and Ear Training II*	2 cr.
MUS-127 Harmony and Ear Training at the Keyboard I	2 cr.
MUS-128 Harmony and Ear Training at the Keyboard II	2 cr.
MUS-203 Music Before 1600	3 cr.
MUS-204 Music From 1600 through Beethoven	3 cr.
MUS-205 Music After Beethoven	3 cr.
Select three courses:	9 cr.
MUS-312 Beethoven	3 cr.
MUS-315 Bach and Handel	3 cr.
MUS-316 Haydn and Mozart	3 cr.
MUS-317 Music of the Romantic Era	3 cr.
MUS-318 Music of the Twentieth Century	3 cr.
MUS-319 Music of America	3 cr.
MUS-323 Music of the Renaissance Era	3 cr.
Select two courses:	6 cr.
MUS-309 Studies in Instrumental Music	3 cr.
MUS-310 Studies in Vocal Music	3 cr.
MUS-311 Studies in Keyboard Music	3 cr.
MUS-321 Seminar in Music History	3 cr.
Piano	6 cr.
MUS-112 Class Piano I*	2 cr.
MUS-113 Class Piano II*	2 cr.
MUS-114 Class Piano III or MUS-152W Applied Music: Piano	2 cr.
Total	62 cr.

* Music Majors take the following courses concurrently: Theory I and II (MUS-121 and 122) are taken concurrently with Class Piano I and II (MUS-112 and 113). Students with piano skill may audition for advanced placement. Theory III and IV (MUS-201 and 202) are taken concurrently with Sight Singing and Ear Training I and II (MUS-124 and 125).

Emphasis III: Piano Pedagogy

Required Courses:

MUS-121 Music Theory I	3 cr.
MUS-122 Music Theory II	3 cr.
MUS-201 Music Theory III*	3 cr.
MUS-202 Music Theory IV or MUS-301 Counterpoint I	3 cr.
MUS-124 Sight Singing and Ear Training I*	2 cr.
MUS-127 Harmony and Ear Training at the Keyboard I	2 cr.
MUS-305 Form and Analysis I	3 cr.
MUS-203 Music Before 1600	3 cr.
MUS-204 Music From 1600 through Beethoven	3 cr.
MUS-205 Music After Beethoven	3 cr.
MUS-311 Studies in Keyboard Music	3 cr.
Applied Music	18 cr.
Private study in piano	
At least ten credit hours are selected from:	
MUS-351 Applied Music	1 cr.
MUS-352 Applied Music	2 cr.
MUS-353 Applied Music	3 cr.
MUS-354 Applied Music	4 cr.
MUS-331 Applied Music Pedagogy I: Piano	3 cr.
MUS-332 Applied Music Pedagogy II: Piano	2 cr.
MUS-223 Instrumental Conducting or MUS-224 Choral Conducting	2 cr.
Electives: (two courses selected in consultation with advisor from Psychology, Music Theory, or Music History and Literature)	6 cr.
Total	62 cr.

*Piano Pedagogy Majors take the following courses concurrently: Theory III (MUS-201) is taken concurrently with Sight Singing and Ear Training I (MUS-124).

Emphasis IV: Music History and Literature

Required Courses:

MUS-121 Music Theory I*	3 cr.
MUS-122 Music Theory II*	3 cr.
MUS-201 Music Theory III*	3 cr.
MUS-202 Music Theory IV*	3 cr.
MUS-301 Counterpoint I	3 cr.
MUS-305 Form and Analysis I	3 cr.
MUS-124 Sight Singing and Ear Training I*	2 cr.
MUS-125 Sight Singing and Ear Training II*	2 cr.
MUS-203 Music Before 1600	3 cr.
MUS-204 Music From 1600 through Beethoven	3 cr.
MUS-205 Music After Beethoven	3 cr.

Select two courses:	6 cr.
MUS-309 Studies in Instrumental Music	3 cr.
MUS-310 Studies in Vocal Music	3 cr.
MUS-311 Studies in Keyboard Music	3 cr.
Select four courses:	12 cr.
MUS-312 Beethoven	3 cr.
MUS-315 Bach and Handel	3 cr.
MUS-316 Haydn and Mozart	3 cr.
MUS-317 Music of the Romantic Era	3 cr.
MUS-318 Music of the Twentieth Century	3 cr.
MUS-319 Music of America	3 cr.
MUS-323 Music of the Renaissance Era	3 cr.
Piano	6 cr.
MUS-112 Class Piano I	2 cr.
MUS-113 Class Piano II	2 cr.
MUS-114 Class Piano III or MUS-152W Applied Music: Piano	2 cr.
After successfully completing a piano skill placement audition, the student may fulfill these required hours with other music electives.	
Electives: (two courses selected from Music History and Literature or Music Theory)	6 cr.
Total	61 cr.

* Music Majors take the following courses concurrently: Theory I and II (MUS-121 and 122) are taken concurrently with Class Piano I and II (MUS-112 and 113). Students with piano skill may audition for advanced placement. Theory III and IV (MUS-20 1 and 202) are taken concurrently with Sight Singing and Ear Training I and II (MUS-124 and 125).

Emphasis V a: K-12 Music Education: Vocal

Required Courses:

MUS-121 Music Theory I*	3 cr.
MUS-122 Music Theory II*	3 cr.
MUS-201 Music Theory III*	3 cr.
MUS-202 Music Theory IV* or MUS 301 Counterpoint I	3 cr.
MUS-124 Sight Singing and Ear Training I*	2 cr.
MUS-125 Sight Singing and Ear Training II*	2 cr.
MUS-203 Music Before 1600	3 cr.
MUS-204 Music From 1600 through Beethoven	3 cr.
MUS-205 Music After Beethoven	3 cr.
Applied Music	12 cr.
Private study in voice. At least six credit hours are selected from:	
MUS-351 Applied Music	1 cr.
MUS-352 Applied Music	2 cr.
MUS-353 Applied Music	3 cr.
MUS-354 Applied Music	4 cr.
Piano	6 cr.
MUS-112, Class Piano I*; MUS-113 Class Piano II*; MUS-114 Class Piano III; or MUS-152 Applied Music-Piano.	

After successfully completing a piano skill placement audition, students may fulfill up to 6 of these required hours with other music electives.

MUS-224 Choral Conducting	2 cr.
MUS-331 Vocal Pedagogy or MUS-310 Studies in Vocal Music	3 cr.
MUS-391 Contemporary Music Education, Grades K-6	3 cr.
Electives: (one course selected from Music History and Literature or Music Theory)	3 cr.
Total	54 cr.

* Music Majors take the following courses concurrently: Theory I and II (MUS-121 and 122) are taken concurrently with Class Piano I and II (MUS-112 and 113). Students with piano skill may audition for advanced placement. Theory III and IV (MUS-20 1 and 202) are taken concurrently with Sight Singing and Ear Training I and II (MUS-124 and 125).

TED-SCED-303I Methods and Techniques of Teaching Music in the Secondary Schools: Instrumental (taken concurrently with MUS-393L)	2 cr.
TED-SCED-303V Methods and Techniques of Teaching Music in the Secondary Schools: Vocal (taken concurrently with MUS-393L)	2 cr.
MUS-393L Seminar in Music Education, Clinical Field Experience (taken concurrently with C&I-SCED-303I or C&I-SCED-303V)	2 cr.
(Included in professional education requirements) (See piano proficiency requirement below.)	
SCED-305N K-12 Student Teaching and Seminar in Music	9 cr.
Students should also consult the K-12 Education section of this catalog.	

NOTE: K-12 Music Education: Majors must obtain departmental approval for admission to student teaching.

Music Education Majors are required to take the Piano Proficiency Exam prior to enrolling in MUS-393L. Students must pass the Proficiency Exam prior to Student Teaching. The Proficiency Exam is given once each semester. See advisor for schedule.

Music Education Majors are required to take MUS-342 Ethnic Music of Third World Cultures as their Third World Culture course for certification.

Upon attaining Junior status Music Education majors must apply for a Music Education Junior Interview. This interview serves as a general review of skill and knowledge applicable to the field of Music Education. The student's progress will be assessed and suggestions for improvement will be made. Contact the Music Education faculty for specific requirements and scheduling.

Emphasis V b: K-12 Music Education: Instrumental

Required Courses:

MUS-121	Music Theory I*	3 cr.
MUS-122	Music Theory II*	3 cr.
MUS-201	Music Theory III*	3 cr.
MUS-202	Music Theory IV* or MUS-301 Counterpoint I	3 cr.
MUS-124	Sight Singing and Ear Training I*	2 cr.
MUS-125	Sight Singing and Ear Training II*	2 cr.
MUS-203	Music Before 1600	3 cr.
MUS-204	Music From 1600 through Beethoven	3 cr.
MUS-205	Music After Beethoven	3 cr.
Applied Music		11 cr.

Private study in instrumental

At least six credit hours are selected from:

MUS-351	Applied Music	1 cr.
MUS-352	Applied Music	2 cr.
MUS-353	Applied Music	3 cr.
MUS-354	Applied Music	4 cr.
Piano		4 cr.
MUS-112	Class Piano I*; MUS-113 Class Piano II*; MUS-114 Class Piano III; or MUS-152 Applied Music-Piano (see note)	

After successfully completing a piano skill placement audition, students may fulfill up to 6 of these required hours with other music electives.

MUS-223	Instrumental Conducting	2 cr.
MUS-308	Orchestration	3 cr.
Select three courses:		6 cr.
MUS-115	Instrumental Music Studies-Brass Instruments	2 cr.
MUS-116	Instrumental Music Studies-Percussion Instruments	2 cr.
MUS-117	Instrumental Music Studies-String Instruments	2 cr.
MUS-118	Instrumental Music Studies-Woodwind Instruments	2 cr.
MUS-391	Contemporary Music Education, Grades K-6	3 cr.
Total		54 cr.

TED-SCED-303I	Methods and Techniques of Teaching Music in the Secondary Schools: Instrumental (taken concurrently with MUS-393L)	2 cr.
TED-SCED-303V	Methods and Techniques of Teaching Music in the Secondary Schools: Vocal (taken concurrently with MUS-393L)	2 cr.
MUS-393L	Seminar in Music Education, Clinical Field Experience (taken concurrently with C&I-SCED-303I or C&I-SCED-303V) (Included in professional education requirements) (See piano proficiency requirement below.)	2 cr.
SCED-305N	K-12 Student Teaching and Seminar in Music	9 cr.

Students should also consult the K-12 Education section of this catalog.

NOTE: K-12 Music Education: Majors must obtain departmental approval for admission to student teaching.

Music Education Majors are required to take the Piano Proficiency Exam prior to enrolling in Mus 393L. Students must pass the Proficiency Exam prior to Student Teaching. The Proficiency Exam is given once each semester. See advisor for schedule.

Guitar, Piano, Computer/Electronic Music Media students may be required to take additional courses in order to complete their program. Student program must be approved by the department.

Music Education Majors are required to take MUS-342 Ethnic Music of Third World Cultures as their Third World Culture course for certification.

Upon attaining Junior status Music Education majors must apply for a Music Education Junior Interview. This interview serves as a general review of skill and knowledge applicable to the field of Music Education. The student's progress will be assessed and suggestions for improvement will be made. Contact the Music Education faculty for specific requirements and scheduling.

Minor in Music (23 cr. hrs.)

In consultation with the Department of Music advisor, the student designs an individualized and appropriately balanced program to meet personal interests and needs. Courses are selected from the departmental curriculum and may not include MUS-101. Students must obtain the advisor's approval for the total program plan.

All music minors must attend a total of 15 concerts.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a departmental course of study and a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Minor in Dance (30 cr. hrs.)

In consultation with the departmental dance advisor, the student designs an individualized and appropriately balanced program to meet personal interests and needs. Students entering the program must demonstrate technical ability. Students must obtain the advisor's approval for the total program plan.

Students in the Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Some dance classes may be taken more than once. Consult with the Coordinator of Dance for more information.

Concert Series

Approximately 80 afternoon and evening concerts are offered on-campus each year including student recitals, the Chamber Music Series, the Ruth Page Dance Series, American Spanish Dance Festival, Faculty Artist Series, and the Guest Artist Series. Complete information is published in the Department of Music Concert Calendar.

Performing Groups

A variety of instrumental and vocal ensembles perform in concerts both on and off-campus and rehearse on a regular basis throughout the year. The ensembles are open to university and community members with appropriate choral/instrumental/vocal experience and commitment to artistic performance. Students may enroll for credit in a maximum of three ensembles per term. Ensembles in Music include:

Brass Ensemble	Jazz Combo
Chamber Ensemble	Multi Media Ensemble
Chamber Orchestra	New Music Ensemble
Chamber Singers	Opera Workshop
Concert Choir	Percussion Ensemble
Concert Band	String Ensemble
Guitar Ensemble	University Chorus
Jazz Band	Wind Ensemble
	Woodwind Ensemble

Ensembles in Dance include:

- Contemporary Dance Ensemble
- Spanish Dance Ensemble

Computer/Electronic Music and Technology

Qualified students may enroll in courses utilizing the Computer/Electronic Music Studio, a facility equipped with professional quality MIDI and Digital Audio Workstations. The Department sponsors computer/electronic music conferences throughout the year. See the department chair for special offerings in electronic music.

Music Technology courses should be taken in the following sequence:

- MUS-130 Fundamentals of MIDI
- MUS-230 Advanced MIDI
- MUS-398B Practicum: Computer Music (may be repeated)

Music Learning Resources Center

The Music Learning Resources Center is a music study facility with computer assisted study materials, fully equipped listening stations, and approximately 4000 recordings and scores. The Music Learning Resource Center is located on the third floor of the Ronald Williams Library.

Professional Society

Open to all students, the NEIU Student Chapter of the Music Educators National Conference provides opportunities for professional orientation and development, and opportunities to attend music education festivals, conventions and meetings.

Resources in Dance

The department sponsors The Ruth Page Dance Series, a professional dance series which showcases diverse styles of dance. Students also have the opportunity to apprentice with

professional dance companies. Ensemble Espanol, the professional company in residence, offers qualified dance students opportunities to participate in intensive workshops throughout the year, and performs on campus regularly. The Department offers the American Spanish Dance Festival each summer with Ensemble Espanol and international guest artists. Qualified dance students may enroll for credit.

Awards

The Harold Berlinger Scholarship and the Joan Sachs Scholarship are awarded annually to outstanding students in Music. Undergraduate Talent Scholarships (tuition waivers) in Music and in Dance, and graduate tuition awards are available to qualified students. Complete information is available in the Department.

GRADUATE PROGRAM

Master of Arts in Music

The graduate program in music offers two areas of emphasis: Music Education and Applied Music Pedagogy. It serves (1) students preparing for college level teaching, (2) students preparing for advanced graduate studies, and (3) in-service elementary and secondary school teachers.

The program is designed especially for the convenience of the part-time student, and courses are offered in the late afternoon and evening.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College and apply to the Department of Music for admission to the degree program. To qualify for acceptance in the program, applicants must:

1. Demonstrate, through department Graduate Placement examination, knowledge and skills in the following areas:
 - a. Harmony — written, aural, and keyboard
 - b. Sight-singing, and melodic, harmonic, and rhythmic dictation
 - c. History and Literature of Music
 Graduate Placement Examinations must be taken in the first semester of graduate study.
2. Demonstrate sufficient pianistic ability to meet program requirements.
3. In the Applied Pedagogy program, students must audition in their performance area before the appropriate committee or submit a fifteen-minute tape to the committee to demonstrate ability.
4. In Music Education, the student must have an undergraduate degree in Music Education.

Requirements for the Degree:

For students admitted to Master's programs prior to the Fall 1997 semester, the majority of courses applied to the Master's degree must be 400-level; a limited number of appropriate 300-level courses are applicable.

Both sequences require a total of 36 credit hours all of which must be earned in 400-level courses. Participation in large and small ensembles for a minimum of three terms, and a written and/or oral final examination are also required. Course requirements are:

Emphasis I: Music Education

MUS-424 Music Bibliography and Research	3 cr.
MUS-493 Dynamics of a Music Curriculum	3 cr.
MUS-491 Seminar in Research in Music Education	3 cr.
MUS-492 Seminar in Administration and Supervision of School Music	3 cr.
Applied Music	6 cr.
MUS-481 Thesis Seminar (Project or Thesis)	3 cr.
Electives (selected in consultation with the Graduate Advisor)	15 cr.
Total	36 cr.

Emphasis II: Applied Music Pedagogy

MUS-424 Music Bibliography and Research	3 cr.
MUS-431 Advanced Applied Music Pedagogy I	3 cr.
MUS-432 Advanced Applied Music Pedagogy II	2 cr.
MUS-428 Music Repertoire Seminar	6 cr.
Applied Music (400-level)	12 cr.
MUS-481 Thesis Seminar (may be a recital)	3 cr.
Electives (selected in consultation with the Graduate Advisor)	7 cr.
Total	36 cr.

COURSE OFFERINGS

MUS-101 The Musical Experience, 3 cr. A non-technical course designed to increase the listener's understanding and enjoyment of music. Not applicable towards music major or minor requirements.

MUS-104 Music Concepts: An Introduction, 3 cr. Elements of music, forms and styles; lectures, discussions, readings, recordings, and attendance at musical performances. Open to all students; recommended for prospective majors and required for Elementary Education majors.

MUS-105 Basic Materials in Music Theory, 2 cr. Introduction to notation and perception of pitch and rhythm, including: intervals, triads, scales, meter, and key signatures, divisions of the beat, and basic concepts of sightsinging and ear training. Recommended for prospective majors.

MUS-107 Class Instrumental Instruction: Strings, Brass, Woodwinds, Percussion, 2 cr. Skills in playing either strings, brass, woodwinds, or percussion; includes principles of tone production, basic technique, scales, and arpeggios. Solo and ensemble works. *Prereq.:* MUS-105 or consent of instructor.

MUS-110 Class Voice I, 2 cr. For beginning students in voice; fundamentals of vocal technique.

MUS-111 Class Voice II, 2 cr. Continuation of MUS-110. *Prereq.:* MUS-110 or consent of instructor.

MUS-112 Class Piano I, 2 cr. For beginning piano students. Fundamentals of reading and writing music. Basic keyboard skills in major and minor keys. Outside practice required.

MUS-113 Class Piano II, 2 cr. Continuation of MUS-112. Expanded theoretical concepts and keyboard technique. Outside practice required. *Prereq.:* MUS-112 or consent of instructor.

MUS-114 Class Piano III, 2 cr. Keyboard skills in all major and minor keys. Piano literature of diverse styles. Outside practice required. *Prereq.:* MUS-113 or consent of instructor.

MUS-115 Instrumental Music Studies — Brass Instruments, 2 cr. Introduction to the techniques and skills of playing brass instruments. Care and maintenance. Study and evaluation of the music literature available for the various brass instruments. *Prereq.:* MUS-121 or consent of instructor.

MUS-116 Instrumental Music Studies — Percussion Instruments, 2 cr. Introduction to the techniques and skills of playing percussion instruments. The use of percussion instruments in various types of instrumental ensembles. *Prereq.:* MUS-121 or consent of instructor.

MUS-117 Instrumental Music Studies — String Instruments, 2 cr. Introduction to the techniques and skills of playing string instruments. Care and maintenance. Study and evaluation of the music literature available for the various string instruments. *Prereq.:* MUS-121 or consent of instructor.

MUS-118 Instrumental Music Studies — Woodwind Instruments, 2 cr. Introduction to the techniques and skills of playing woodwind instruments. Care and maintenance. Study and evaluation of the music literature available for the various woodwind instruments. *Prereq.:* MUS-121 or consent of instructor.

MUS-120 Class Guitar I, 2 cr. Basic skills in guitar; basic chords and chord progressions, strumming techniques, playing a simple melodic line, and reading guitar tablature as well as standard musical notation.

MUS-121 Music Theory I, 3 cr. Study of harmonic materials in tonal music and standard notational practice. Includes written and aural skills development. Structure, doubling, spacing, voice-leading, triads and inversions.

MUS-122 Music Theory II, 3 cr. Continuation of MUS-121. Advancing written and aural skills. Phrase structure, cadences, harmonic progression, harmonization techniques, nonharmonic tones. *Prereq.:* MUS-121.

MUS-123 Class Guitar II, 2 cr. Continuation of MUS-120. More complex and varied chord formations and strumming techniques; note reading of more difficult melodic lines; basics of classical guitar technique. *Prereq.:* MUS-120 or consent of instructor.

MUS-124 Sight-Singing and Ear Training I, 2 cr. Practice and application of sight-singing techniques, ear training procedures, and related aural/oral skills. *Prereq.:* MUS-121 or consent of instructor.

MUS-125 Sight-Singing and Ear Training II, 2 cr. Continuation of MUS-124. *Prereq.:* MUS-124 or consent of instructor.

MUS-127 Harmony and Ear Training at the Keyboard I, 2 cr. Skills in applying harmonic and melodic concepts and techniques at a keyboard instrument. *Prereq.:* MUS-121 and MUS-112 or consent of instructor.

MUS-128 Harmony and Ear Training at the Keyboard II, 2 cr. Continuation of MUS-127. *Prereq.:* MUS-127 or consent of instructor.

MUS-130 Fundamentals of MIDI, 3 cr. Introduction to digital technology and its musical applications. Fundamental skills and applications for using synthesizers, computers, drum machines and other instruments which utilize Musical Instrument Digital Interface. Lectures, demonstrations and hands-on experience in electronic music lab. *Prereq.: consent of instructor.*

MUS-131 Computer Literacy for Musicians, 3 cr. This is a preparatory course for music students who wish to pursue further study in the use of computers for composition, performance, music printing, and assisted instruction. *Prereq.: consent of instructor.*

MUS-135 Desktop Music Publishing, 3 cr. Desktop publishing approach to creating professional quality music publications from handwritten manuscripts. Orchestral scores, choral scores, lead sheets, songbooks and other publications. Utilizes computers, music notation software, synthesizers and printers. Includes demonstrations and hands-on experience in Computer/Electronic Music Lab. *Prereq.: consent of instructor.*

MUS-151 Applied Music, 1 cr. Individual study in voice or any instrument for development of performing skills and musical understanding; knowledge of the repertoire for the voice or specific instrument at an appropriate level of performing ability. Students taking Applied Lessons must be music majors, minors or registered in an ensemble. *Prereq.: consent of instructor or department chairperson.*

MUS-152 Applied Music, 2 cr. (See MUS-151 for description.)

MUS-153 Applied Music, 3 cr. (See MUS-151 for description.)

MUS-154 Applied Music, 4 cr. (See MUS-151 for description.)

MUS-201 Music Theory III, 3 cr. Study of seventh chords, secondary dominants, altered nonharmonic tones, modulation, borrowed chords, augmented sixth chords. Advancing analytical and written skills. *Prereq.: MUS-122 or consent of instructor.*

MUS-202 Music Theory IV, 3 cr. Writing and analysis. Study of Neapolitan sixth; diminished sevenths; altered dominants; chromatic mediants; modulation to foreign keys; ninth, eleventh and thirteenth chords. *Prereq.: MUS-201 or consent of instructor.*

MUS-203 Music Before 1600, 3 cr. Survey of musical styles, types, and forms from Gregorian Chant through the Renaissance. *Prereq.: MUS-121 or consent of instructor.*

MUS-204 Music From 1600 Through Beethoven, 3 cr. Survey of musical styles, types, and forms in representative composers of the Baroque and Classical Periods. *Prereq.: MUS-121 or consent of instructor.*

MUS-205 Music After Beethoven, 3 cr. Survey of musical styles, types, and forms, in representative composers of the Romantic Period and the Twentieth Century. *Prereq.: MUS-121 or consent of instructor.*

MUS-221 Chorus, 1.5 cr. This activity is open to all students. Opportunities for school and public performance. *Prereq.: consent of instructor.*

MUS-222 Vocal Ensemble, 1.5 cr. Opera Workshop, Chamber Singers, and Madrigal Singers. Open to all enrolled students. Opportunities for school and public performance. *Prereq.: consent of instructor.*

MUS-223 Instrumental Conducting, 2 cr. Techniques of conducting and score reading; rehearsal techniques and interpretation. *Prereq.: MUS-122 or consent of instructor.*

MUS-224 Choral Conducting, 2 cr. Choral conducting techniques; ability to read and analyze choral scores; choral repertoire. *Prereq.: MUS-122 or consent of instructor.*

MUS-230 Advanced MIDI, 3 cr. Continuation of MUS-130. Advanced applications of digital technology as it applies to music, using computers, synthesizers, samplers and recording equipment. Lectures, demonstrations and hands-on experience in electronic music lab. *Prereq.: MUS-130 or consent of instructor.*

MUS-231 Band, 1.5 cr. Open to enrolled students with instrumental experience. Opportunities for school and public performance. *Prereq.: consent of instructor.*

MUS-231A Wind Band, 1 cr. Wind Ensemble; advanced literature. Opportunities for school and public performance. *Prereq.: consent of instructor.*

MUS-234 Instrumental Ensemble, 1 cr. Open to enrolled students with instrumental experience. Opportunities for school and public performance. *Prereq.: consent of instructor.*

MUS-235 Instrumental Ensemble, 1.5 cr. Ensemble; advanced literature. Opportunities for school and public performance. *Prereq.: consent of instructor.*

MUS-301 Counterpoint I, 3 cr. Writing in two parts in various styles and modes, study of species and modal procedures. *Prereq.: MUS-201 or consent of instructor.*

MUS-302 Counterpoint II, 3 cr. Writing in four parts; double counterpoint, canon and fugue contrapuntal analysis. *Prereq.: MUS-301.*

MUS-305 Form and Analysis I, 3 cr. Structural and stylistic features in their musical context; motif, phrase and period; binary and ternary form, theme and variations, rondo, sonata form and unique forms. *Prereq.: MUS-201 or consent of instructor.*

MUS-306 Form and Analysis II, 3 cr. Structural and stylistic features in their musical context, early to contemporary polyphonic forms, multi-movement forms, electronic music, aleatoric music. Consideration of several approaches to structural analysis. *Prereq.: MUS-305 or consent of instructor.*

MUS-307 Class Composition, 3 cr. Composition and performance of students' original works. *Prereq.: consent of instructor.*

MUS-308 Orchestration, 3 cr. Instrumental timbres and the capabilities of instruments; scoring for instruments in a variety of combinations, including the orchestra and instrumental-vocal combinations. *Prereq.: MUS-122 or consent of instructor.*

MUS-309 Studies in Instrumental Music, 3 cr. Selected topics in instrumental literature. Consult the Schedule of Classes for specific topics. *Prereq.: MUS-122, MUS-203, MUS-204, MUS-205 or consent of instructor.*

MUS-310 Studies in Vocal Music, 3 cr. Selected topics in vocal literature. Consult the Schedule of Classes for specific topics. *Prereq.: MUS-122, MUS-203, MUS-204, MUS-205 or consent of instructor.*

MUS-311 Studies in Keyboard Music, 3 cr. Selected topics in keyboard literature, including dance types, character pieces, variations, prelude, fugue, toccata, suite, and sonata. Consult the Schedule of Classes for specific topics. *Prereq.:* MUS-122, MUS-203, MUS-204, MUS-205 or consent of instructor.

MUS-312 Beethoven, 3 cr. Representative compositions of Beethoven, with emphasis on the evolution of early, middle, and late period style characteristics. *Prereq.:* MUS-122, MUS-203, and MUS-204 or MUS-205, or consent of instructor.

MUS-314 Selected Studies in Music, 3 cr. Special topics in music history and/or theory. Consult the Schedule of Classes for specific topics. *Prereq.:* junior standing.

MUS-315 Bach and Handel, 3 cr. Analysis of representative vocal and instrumental compositions. Survey of biographical and bibliographical sources. *Prereq.:* MUS-122, MUS-203, MUS-204, or MUS-205, or consent of instructor.

MUS-316 Haydn and Mozart, 3 cr. Analysis of representative vocal and instrumental compositions. Survey of biographical and bibliographical sources. *Prereq.:* MUS-122, MUS-203, MUS-204, or MUS-205, or consent of instructor.

MUS-317 Music of the Romantic Era, 3 cr. Consideration from a historical point of view of structural, stylistic and formal aspects of the musical art of the Romantic era. *Prereq.:* MUS-122, MUS-203, MUS-204 or MUS-205, or consent of instructor.

MUS-318 Music of the Twentieth Century, 3 cr. Consideration from a historical point of view of structural, stylistic and formal aspects of the musical art of the twentieth century. *Prereq.:* MUS-122, MUS-203, MUS-204, or MUS-205, or consent of instructor.

MUS-319 Music of America, 3 cr. Study of the development of music in America from the pre-revolutionary period to the contemporary period. *Prereq.:* MUS-122, MUS-203, MUS-204, or MUS-205, or consent of instructor.

MUS-320 Independent Study in Music, 1 cr. Individual investigation into a topic of the student's choice. *Prereq.:* consent of instructor.

MUS-321 Seminar in Music History, 3 cr. Intensive study of specialized topics. Consult the Schedule of Classes for specific topics. *Prereq.:* consent of instructor.

MUS-322 Independent Study in Music, 3 cr. (See MUS-320 for description.)

MUS-323 Music of the Renaissance Era, 3 cr. Consideration from a historical point of view of structural, stylistic, and formal aspects of the musical art of the Renaissance Era. *Prereq.:* MUS-122, MUS-203, MUS-204, or MUS-205, or consent of instructor.

MUS-324 Independent Study in Music, 2 cr. (See MUS-320 for description.)

MUS-325 Performance Seminar, 2 cr. Performance and critical analysis of others' performances based upon stylistic, structural, and technical factors. Consult the Schedule of Classes for specific topics. *Prereq.:* consent of instructor.

MUS-326 Songwriting, 3 cr. Techniques of songwriting; consideration and analysis of classical and folk song models; emphasis on writing lyrics, melody and accompaniment. *Prereq.:* ability to read and write music and consent of instructor.

MUS-328 Repertoire Seminar, 2 cr. Survey of the standard repertoire for different performance areas. Content varies according to performance area studied. Consult the Schedule of Classes for specific topics. *Prereq.:* ten credit hours in major performance area or consent of instructor.

MUS-329 Advanced Conducting, 2 cr. Rehearsal techniques involved in the performance of advanced orchestral and band literature; refinements of baton technique; careful attention to interpretation of selected repertoire. *Prereq.:* MUS-223.

MUS-330 Music Technology Seminar: Current Topics, 3 cr. A survey of latest developments in music technology designed to keep today's musician up-to-date with current trends and applications, new gear and instruments, software upgrades and other current topics. Includes demonstrations and hands-on experience in Computer/Electronic Music Lab. *Prereq.:* MUS-230 or consent of instructor.

MUS-331 Applied Music Pedagogy I, 3 cr. Methods for Applied Music teaching for prospective and experienced teachers. *Prereq.:* twelve credit hours of Applied Music or consent of instructor.

MUS-332 Applied Music Pedagogy II, 2 cr. Primarily a practicum for prospective and experienced teachers; class discussion, practice teaching. *Prereq.:* MUS-331 or consent of instructor.

MUS-333 Internship in Music, 3 cr. Field experience in schools, community organizations, or industry. Detailed information is available in the departmental office. *Prereq.:* consent of departmental Music Internship Committee.

MUS-342-Ethnic Music of Third World Cultures, 3 cr. A study of third world cultures and their values, as reflected in their arts, especially music; experiencing their music through performance on ethnic instruments, listening to recordings of authentic music, as well as map study, and attendance at live performances.

MUS-351 Applied Music, 1 cr. Individual study in voice or any instrument for continued development of performing skills and musical artistry; knowledge of the repertoire for the specific voice or instrument at an appropriate level of performing ability. *Prereq.:* consent of instructor or department chairperson.

MUS-352 Applied Music, 2 cr. (See MUS-351 for description.)

MUS-353 Applied Music, 3 cr. (See MUS-351 for description.)

MUS-354 Applied Music, 4 cr. (See MUS-351 for description.)

MUS-391 Contemporary Music Education K-6, 3 cr. A study of philosophy, methods, materials, and assessment techniques suitable for developing music potential in elementary school-aged children. Special areas of focus include long and short term lesson planning, sequencing concepts and skills, ethnic music, music in Special Education, and assessment correlated with State and national Standards for Arts Education. *Prereq.:* consent of instructor.

MUS-393 Seminar in Music Education, 2 cr. Concentrated study of specific aspects of a music education curriculum including approaches, skills, materials, and media, with

emphasis on current trends. Consult the Schedule of Classes for specific topics. *Prereq.:* *in-service teacher, or consent of instructor.*

MUS-394 Seminar in Music Education, 3 cr. (See MUS-393 for description.)

MUS-396 Practicum in Music, 1 cr. Concentrated study of specific aspects of music performance, music theory, or music history and literature. Consult the Schedule of Classes for specific topics. *Prereq.:* *in-service teacher, or consent of instructor.*

MUS-397 Practicum in Music, 2 cr. (See MUS-396 for description.)

MUS-398 Practicum in Music, 3 cr. (See MUS-396 for description.)

MUS-420 Independent Study in Music, 1 cr. Individual investigation into a topic of the student's choice. *Prereq.:* *graduate standing and consent of instructor and approval of department.*

MUS-421 Independent Study in Music, 2 cr. (See MUS-420 for description.)

MUS-422 Independent Study in Music, 3 cr. (See MUS-420 for description.)

MUS-424 Music Bibliography and Research, 3 cr. Study of basic reference and research materials in music and introduction to methods of research appropriate to music. *Prereq.:* *graduate standing.*

MUS-425 Performance Seminar: (Piano, Voice, Brass, Strings, Percussion or Woodwind), 2 cr. This seminar is an extension and complement to the student's Applied (Piano, Voice, Brass, Strings, Percussion or Woodwind) study (i.e., his/her advanced-level (Piano, Voice, Brass, Strings, Percussion or Woodwind) lesson). It focuses on the art of performance.

MUS-428 Repertoire Seminar: (Piano, Voice, Brass, Strings, Percussion, or Woodwind), 2 cr. Graduate students are required to take this course three times in order to accumulate a total of six credits for graduation. Over the course of three semesters the seminar will consist of an in-depth study of principal styles and forms of repertoire, with styles ranging from early to modern music.

MUS-431 Advanced Applied Music Pedagogy I: (Piano, Voice, Brass, Strings, Percussion or Woodwind), 3 cr. At an advanced level this course explores various aspects of the field of (Piano, Voice, Brass, Strings, Percussion or Woodwind) teaching, including learning the techniques of teaching students at various ages and levels of advancement. Also, it will study various approaches to (Piano, Voice, Brass, Strings, Percussion or Woodwind) technique, placing them in historical context, and learning how to apply them to students at different levels of advancement.

MUS-432 Advanced Applied Music Pedagogy II: (Piano, Voice, Brass, Strings, Percussion or Woodwind), 2 cr. This course builds upon the knowledge gained in Pedagogy I and continues its exploration of advanced topics in (Piano, Voice, Brass, Strings, Percussion or Woodwind) pedagogy, including learning theories and their application to the teaching of (Piano, Voice, Brass, Strings, Percussion or Woodwind), analysis from a pedagogical point of view of teaching repertoire, and a further exploration of (Piano, Voice, Brass, Strings,

Percussion or Woodwind) technique in relation to teaching students of differing levels of advancement. Special emphasis will be placed on the difficult problem of matching repertoire with students, i.e., of choosing teaching material which appropriately challenges the student in terms of his/her musical, technical and psychological development.

MUS-451 Applied Music, 1 cr. Individual study in voice or any instrument for continued development of performing skills and musical artistry; knowledge of the repertoire for the specific voice or instrument at an appropriate level of performing ability. *Prereq.:* *consent of instructor or department chairperson, and graduate standing.*

MUS-452 Applied Music, 2 cr. (See MUS-451 for description.)

MUS-453 Applied Music, 3 cr. (See MUS-451 for description.)

MUS-454 Applied Music, 4 cr. (See MUS-451 for description.)

MUS-471 Seminar in Music History: Baroque, 3 cr. In-depth study of selected topics in the music history and literature of the Baroque. Individual research topics. *Prereq.:* *graduate standing and consent of instructor.*

MUS-472 Seminar in Music History: Classic Era, 3 cr. In-depth study of selected topics in the music history and literature of the Classic era. Individual research topics. *Prereq.:* *graduate standing and consent of instructor.*

MUS-476 Theory Seminar; Analytical Procedures and Compositional Techniques, 3 cr. Directed research, analysis and presentation of reports treating aspects of music theory in selected historical periods. Consult the Schedule of Classes for specific topics. *Prereq.:* *graduate standing and consent of instructor.*

MUS-480 Graduate Internship in Music, 3 cr. Advanced field experience; a practicum in either traditional or non-traditional areas of music. Main responsibility for researching, developing and completing the project lies with the student.

Prereq.: *admission to M.A. Music program, or graduate standing and consent of program advisor.*

MUS-481 Thesis Seminar — Music, 3 cr. Guidance of students preparing a thesis, project or recital to fulfill requirements for the Master of Arts in Music. *Prereq.:* *master's degree candidacy in music.*

MUS-491 Seminar in Research in Music Education, 3 cr. Study of basic reference and research materials in music education and introduction to methods of research appropriate to music education. *Prereq.:* *graduate standing.*

MUS-492 Seminar in Administration and Supervision of School Music, 3 cr. Responsibilities of the music supervisor or the music department chairperson in secondary schools, including curriculum development, public relations, program finance, and scheduling. *Prereq.:* *MUS-203 and graduate standing.*

MUS-493 Dynamics of a Music Curriculum, 3 cr. Problems and procedures related to the planning, development, and implementation of a music curriculum for kindergarten through grade twelve, including current trends in music curricula.

Prereq.: *graduate standing.*

Dance

MUS-DANC-101 The Dance Experience, 3 cr. A non-technical introduction to the art of dance designed to enhance appreciation of styles, tradition, history, choreography, aesthetics and personalities. Lectures, films, discussion and participatory classes.

MUS-DANC-131 Introduction to Spanish Dance, 3 cr. Introduction to the three types of Spanish dance: Classical, Regional and Flamenco with emphasis on basic technique, and on Spain's varied music; Classical, Flamenco and Regional from the 13th through the 20th centuries.

MUS-DANC-161 Spanish Dance I, 2 cr. Continuation of MUS-DANC-131 with emphasis on the mastery of two important repertory styles and their dances: Regional and Flamenco. *Prereq.:* MUS-DANC-131 or consent of instructor.

MUS-DANC-203U Field Experiences: Dance in Chicago I, 3 cr. Field experience in studios or schools. Detailed information is available in the departmental office. *Prereq.:* consent of the Dance committee.

MUS-DANC-203V Field Experiences: Dance in Chicago II, 3 cr. Advanced field experience in studios or schools. Detailed information is available in the departmental office. *Prereq.:* consent of the Dance Committee.

MUS-DANC-203W Field Experiences: Hispanic Dance I, 3 cr. Hispanic dance field experience in studios or schools. Detailed information is available in the departmental office. *Prereq.:* consent of the Dance Committee.

MUS-DANC-204 Repertory Ensemble, 1.5 cr. Open to enrolled students with at least intermediate skills in dance technique (ballet, modern, jazz, or combination). *Prereq.:* consent of instructor.

MUS-DANC-251 Modern Dance I, 2 cr. Practice of movement as an art form suggesting ideas and conveying feelings, including axial and locomotor movements, spontaneous and planned interpretive response, and choreography.

MUS-DANC-254 Modern Dance: II, 2 cr. Continuation of MUS-DANC-251. Strength, flexibility, coordination, and balance; locomotor combinations and creative exploration of rhythm and dynamic elements of dance. *Prereq.:* MUS-DANC-251 or consent of instructor.

MUS-DANC-255 Jazz Dance I, 2 cr. Fundamental techniques of jazz dance for the beginning student; blues, musical comedy, hard-rock, street dancing, and dramatic styles.

MUS-DANC-256 Ballet I, 2 cr. Fundamentals of ballet techniques for the beginning student; attendance at performances; analysis of filmed performances.

MUS-DANC-261 Spanish Dance II, 2 cr. Continuation of MUS-DANC-161 further exploring the Classical, Regional and Flamenco styles with emphasis on mastery of technique, styles, music and theatrical history. *Prereq.:* MUS-DANC-161 or consent of instructor.

MUS-DANC-351 Modern Dance III, 3 cr. Continuation of MUS-DANC-254. Techniques of Graham, Limon, and Cunningham; attendance at professional dance presentations and rehearsals; research. *Prereq.:* MUS-DANC-254 or consent of instructor.

MUS-DANC-355 Jazz Dance II, 2 cr. Continuation of MUS-DANC-255; more polished techniques and expression; blues, musical comedy, hard-rock, street dancing, and dramatic styles. *Prereq.:* MUS-DANC-255 or consent of instructor.

MUS-DANC-356 Ballet II, 2 cr. Continuation of MUS-DANC-256. Skill in performance of "school" steps and combinations. *Prereq.:* MUS-DANC-256 or consent of instructor.

MUS-DANC-357 Ballet III, 2 cr. Continuation of MUS-DANC-356. Development of greater strength, flexibility, balance, stamina; adagio, allegro, and center work. Expressive and creative elements. *Prereq.:* MUS-DANC-256 and MUS-DANC-356.

MUS-DANC-360 Dance Composition, 3 cr. Practical aspects of dance design and theoretical aspects of dance as an art. Creation of dance compositions is required. *Prereq.:* consent of instructor.

MUS-DANC-365 Dance Production, 3 cr. Costuming, make-up, marketing, and lighting for dance.

MUS-DANC-370 Musical Resources for Dance, 3 cr. Music sources of particular interest to the dancer and choreographer from primitivism to trends in new music. Students develop research techniques and resource files in major areas: jazz, ballet, modern and world music forms, new music, etc. *Prereq.:* consent of instructor.

MUS-DANC-371 Theory and Philosophy of Dance and the Related Arts, 3 cr. The nature of dance and its historical interrelatedness with other art forms: poetry, drama (opera), painting, and music; the role of the critic. *Prereq.:* consent of instructor.

MUS-DANC-380 Contemporary Dance Education, 3 cr. Application of educational methods to the field of dance in various settings, such as conservatory and community, and specific age and interest groups.

MUS-DANC-382 Dance Management and Grantsmanship, 3 cr. Methods of management and financing in dance. *Prereq.:* consent of instructor.

MUS-DANC-390 Seminar in Dance Performance, 3 cr. Concentrated study of specific aspects of the performance of the various major types of dance. *Prereq.:* consent of instructor.

MUS-DANC-391 Internship in Dance, 3 cr. Practicum in arts agencies, dance companies, community organizations, or arts-related industries designed by the student, a dance faculty advisor, and generally an off-campus agent. *Prereq.:* consent of instructor.

PHILOSOPHY

Audrey Reynolds, Ph.D., Professor, Chair
 Roger W. Gilman, Ph.D., Associate Professor, Coordinator
 Sarah L. Hoagland, Ph.D., Professor
 James Rizik, Ph.D., Assistant Professor

Philosophy, broadly defined, is the systematic inquiry into some of the problems of human existence. These problems are ones which cannot be dealt with by the methods of the sciences, and ones whose structures are based strictly on rational argument. In this sense, the study of philosophy, through the broad humanistic background that it provides, has always been an essential, perhaps the most essential, ingredient of a liberal education.

Development of the abilities to reflect, analyze and think critically, which result from the study of philosophy, enables the student to understand and correlate all the insights garnered from other disciplines. The varied perspectives that philosophy provides, from the fields of religion, ethics, politics and art, guide the student in his or her search for a sound sense of values. At the same time, philosophy adds a distinctive emphasis on questions of meaning, from linguistic expressions to life itself, and calls for justification of claims to knowledge from any source.

The primary goals of the program are to contribute significantly to the liberal education of university students, to prepare majors for advanced studies in their chosen field, and to help students in their various future professional activities by acquainting them with applied philosophy.

UNDERGRADUATE PROGRAMS

Major in Philosophy for the Bachelor of Arts Degree

The Philosophy program offers courses leading to the degree of Bachelor of Arts.

Required Courses:

PHIL-201	Logic I	3 cr.
PHIL-213	Ethics	3 cr.
PHIL-222	History of Ancient Philosophy	3 cr.
PHIL-241	History of Modern Philosophy	3 cr.
PHIL-332	Contemporary Philosophy	3 cr.
PHIL-383	Seminar in Philosophy	3 cr.
	Six hours of electives at the 300-level	6 cr.
	Additional electives	6 cr.
	Total	30 cr.

Minor in Philosophy (18 cr. hrs.)

Required Courses:

PHIL-213	Ethics	3 cr.
	One course in the history of philosophy	3 cr.
	One course at the 300-level	3 cr.
	Electives	9 cr.
	Total	18 cr.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

COURSE OFFERINGS

PHIL-101 Critical Thinking, 3 cr. Introduction to the study of persuasive devices, semantic pitfalls, informal fallacies, rational vs. emotional appeals, and the techniques used in evaluating arguments.

PHIL-102 Introduction to Philosophy, 3 cr. Introduction to the main problems of philosophy, i.e. knowledge, reality, morality, religion, and art.

PHIL-103 Philosophy and Contemporary Issues, 3 cr. Examination of the philosophical basis of selected contemporary issues, controversies, and movements. Consult the Schedule of Classes for specific topics.

PHIL-104 Arguing Philosophically, 3 cr. Specialized instruction and practice in recognizing argument in prose and in articulating, evaluating, and substantiating opinion with argument through oral and written presentation.

PHIL-105 Feminist Philosophy, 3 cr. Analysis of recent work in feminist theory in order to investigate woman's situation and its foundations in culture, perception, and reality.

PHIL-201 Logic I, 3 cr. Introductory course in symbolic logic, dealing with propositional calculus, quantification theory, and the logic of relations and classes.

PHIL-202 Comparative Religion, 3 cr. A comparative study of the main beliefs and practices of early and primal religions, Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

PHIL-211 Philosophy of Religion, 3 cr. Philosophical scrutiny of some of the central themes in religion, i.e. the existence of God, the problem of evil, human freedom and immortality, the nature of faith, and the role of reason in theology.

PHIL-212 Topics in Social Ethics, 3 cr. Readings and discussions of essays dealing with the major moral issues of the contemporary scene, such as freedom and authority, war and peace, drugs, suicide, and medical ethics. Consult the Schedule of Classes for specific topics.

PHIL-213 Ethics, 3 cr. Introduction to some of the main problems of ethics, including the nature of morality, the meaning of ethical terms, standards for evaluating choices and actions, and the major ideas of important moral philosophers.

PHIL-215 Business Ethics, 3 cr. Philosophical introduction to the ethical content of some of the current problems confronting the business community, such as the social responsibility of business, poverty and equal rights, the ethical implications of ecology, advertising, and consumerism.

PHIL-222 History of Ancient Philosophy, 3 cr. Critical survey of the development of philosophy in the West from the presocratics to Plotinus.

PHIL-231 History of Medieval Philosophy, 3 cr. Critical survey of the development of philosophy in the West from the rise of Christendom to the dawn of the Renaissance.

PHIL-241 History of Modern Philosophy, 3 cr. A critical survey of the development of philosophy in the West in the seventeenth and eighteenth centuries.

PHIL-291 Philosophical Foundations of Oppression, 3 cr. Analysis of concepts emerging from Anglo-European philosophy which support domination, particularly as they function in colonialism, racism, anti-Semitism, sexism, and heterosexism.

PHIL-303 Logic II, 3 cr. Study of the theory and development of axiomatic systems, including the problems of definability, completeness, and consistency. *Prereq.:* PHIL-201 or consent of instructor.

PHIL-306 Logic III, 3 cr. Systematic inquiry into some of the philosophical problems of logic, such as the nature of propositions, the logical paradoxes, undecidability, types of logic, and the relation of logic to truth, language, and existence.

Prereq.: PHIL-303 or consent of instructor.

PHIL-313 Ethical Theory, 3 cr. Study of theories about the meaning and justification of moral judgments: good and bad, right and wrong, human rights, justice, punishment, freedom and responsibility, self-interest, the common good, pleasure and happiness, religion and morality, relativism, subjectivism, and scepticism. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-332 Contemporary Philosophy, 3 cr. Critical survey of the salient schools of contemporary philosophy, notably idealism, pragmatism, logical positivism, analytic philosophy, phenomenology, and existentialism. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-333 American Philosophy, 3 cr. Intensive study of the trends prevalent in the modern American philosophical scene, notably pragmatism, idealism, naturalism, positivism, philosophical analysis, and phenomenology. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-335 Analytic Philosophy, 3 cr. Critical survey of the development of analytic philosophy in the twentieth century. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-337 Existentialism, 3 cr. Intensive study of selected works of existentialist thinkers such as Kierkegaard, Nietzsche, Sartre, and Camus. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-341 Metaphysics, 3 cr. Systematic analysis of some of the main problems of metaphysics, such as existence, substance and attribute, change and permanence, essence and accident, universals and particulars, mind and body, identity, individuation, and causality. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-345 Social and Political Philosophy, 3 cr. Systematic investigation of some of the salient issues currently discussed by social and political philosophers, such as the nature and origin of the state, political obligation, justice, human rights, authority, liberty, and evaluation of social and political institutions. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-351 Sexism and the Philosophy of Language, 3 cr. Analytic investigation of sexism in English in order to facilitate discussion of the relation between language, thought, and reality. *Prereq.:* PHIL-105 or consent of instructor.

PHIL-353 Feminism and the Philosophy of Science, 3 cr. Analytic examination of the concept of femininity as found in the biological and social sciences in order to facilitate discussion of the nature of objectivity and scientific investigation. *Prereq.:* PHIL-105 or consent of instructor.

PHIL-361 Topics in Philosophy and Contemporary Issues, 3 cr. Systematic examination of one important contemporary issue, controversy, or problem. Consult the Schedule of Classes for specific topics. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-371 Theory of Knowledge, 3 cr. Systematic inquiry into the nature of knowledge, with a consideration of such topics as ways of knowing, perception, memory, personal identity, and other minds. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-373 Advanced Feminist Philosophy, 3 cr. Analytic investigation of the latest feminist theory in order to study the development of feminism. *Prereq.:* PHIL-105 or consent of instructor.

PHIL-375 Philosophy of Science, 3 cr. Examination of some of the main problems currently discussed by philosophers of science, such as the methodology and foundations of empirical science, the meaning and verification of scientific statements, theories, laws, hypotheses, and explanations. *Prereq.:* one course in philosophy, junior standing, or consent of instructor.

PHIL-381 Independent Study in Philosophy, 3 cr. Readings, discussions, and reports on a special topic with faculty supervision. Normally open to majors in their junior or senior year. *Prereq.:* consent of instructor.

PHIL-383 Seminar in Philosophy, 3 cr. Intensive study of one important philosopher, problem, school, or period. Consult the Schedule of Classes for specific topics. *Prereq.:* major in philosophy or consent of instructor.

PHYSICS

Pratibha Varma-Nelson, Ph.D., Professor, Chair
 Gregory Anderson, Ph.D., Associate Professor
 Paul J. Dolan, Jr., Ph.D., Professor
 Robert M. Stehman, Ph.D., Professor, Coordinator

Physics offers a program leading to the Bachelor of Science degree. An undergraduate minor is also available.

All 300-level courses in Physics are offered in the evening.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

Goals of the program are to:

1. provide students with a solid foundation in classical and modern physics;
2. develop skills which enable students to enter careers in business, teaching, research, and technology;

3. prepare students for further graduate study in physics.

Courses offered at the 100 level are for non-majors, and can be used to fulfill General Education program requirements, and require minimal math preparation.

Special emphasis is placed on students acquiring as much laboratory experience as possible, together with facility in computer programming. Also, a series of courses are offered in such areas as electronics and materials science where students are introduced to present-day applications of physics to technology.

Laboratory facilities available to students include analog and digital computers, a scanning tunneling microscope, a wide array of sophisticated electronic, nuclear, and optical instruments, a Mössbauer effect apparatus, a fully equipped cryogenics laboratory, a fully equipped optics laboratory including a Spiricon Laser Beam Analyzer, a vacuum laboratory, a 14" reflecting telescope, and a machine shop. Students are encouraged to undertake independent projects of their own choosing.

Qualified undergraduate majors and minors are eligible to apply for a limited number of tuition waivers, scholarships, and part-time jobs offered. Contact the Physics Coordinator for information and application forms.

Newly admitted students-at-large, and all entering freshmen and transfer students who intend to major in physics must consult the Physics Advisor before their first registration.

UNDERGRADUATE PROGRAMS

Major in Physics for the Bachelor of Science Degree

Required core courses

*PHYS-206 Physics with Calculus I	3 cr.
PHYS-203 Physics I Laboratory	1 cr.
*PHYS-207 Physics with Calculus II	3 cr.
PHYS-204 Physics II Laboratory	1 cr.
PHYS-215 Physics III	4 cr.
PHYS-308 Introductory Mathematical Physics	3 cr.
PHYS-330 Intermediate Physics Lab	3 cr.

Any four of the following:	12-13 cr.
PHYS-309 Fortran and Numerical Analysis for Scientists	3 cr.
PHYS-311 Mechanics I	3 cr.
PHYS-321 Electricity and Magnetism I	3 cr.
PHYS-336 Modern Physics I	3 cr.
A 300-level Physics elective	3-4 cr.

Any two of the following:	8 cr.
PHYS-331 Optics	4 cr.
PHYS-332 Electronics	4 cr.
PHYS-365 Microprocessor Electronics	4 cr.
PHYS-367 Transducer and Special Purpose Electronics	4 cr.
PHYS-369 Instrumentation Electronics	4 cr.

Total 38-39 cr.

Please note that 15 or more credits from the above must be taken at Northeastern.

Required Courses in a Related Field:

CHEM-211 General Chemistry I	5 cr.
CHEM-212 General Chemistry II	4 cr.
MATH-106 Pre-Calculus Mathematics	4 cr.
MATH-107 Calculus I	4 cr.
MATH-202 Calculus II	4 cr.
MATH-203 Calculus III	4 cr.
MATH-301 Ordinary Differential Equations	3 cr.
Total	28 cr.

* An equivalent course may be substituted

It is recommended that the above courses be taken in the following sequence:

Freshman Year: FALL: MATH-106; SPRING: MATH-107 and, if high school preparation is inadequate, PHYS-201.

Sophomore Year: FALL: MATH-202, PHYS-206, PHYS-203; SPRING: MATH-203, PHYS-207, PHYS-204; SUMMER: PHYS-215.

Junior Year: FALL: MATH-301, PHYS-308, PHYS-309; SPRING: PHYS-311, PHYS-321, PHYS-330, PHYS-332; SUMMER: Electives.

Senior Year: FALL: PHYS-336, Elective; SPRING: PHYS-338, and, for students who qualify, PHYS-400.

Minor in Physics (18 cr. hrs.)

Required Courses:

PHYS-201 College Physics I or	
PHYS-206 Physics with Calculus I	3 cr.
PHYS-202 College Physics II or	
PHYS-207 Physics with Calculus II	3 cr.
PHYS-215 Physics III	4 cr.
Nine credits in 300-level physics courses	9 cr.
Total	19 cr.

COURSE OFFERINGS

PHYS-103 The Universe: Past, Present, and Future, 3 cr.

An introductory-level Astronomy/Astrophysics course for non-science majors requiring no previous college-level science background. The evolution of the universe: Big Bang creation, expansion of the universe, formation, development and properties of stars, endings of the universe; as well as the history of our understanding of the universe from the perspectives of culture, philosophy, and science. Knowledge of basic algebra skills is assumed. *Prereq.*: MATH-091 or MATH-102 Placement.

PHYS-104 Energy, 3 cr.

A course for non-science majors requiring no previous college-level mathematics or science background. Physics and its application to the problems of energy consumption and production are discussed. Topics include the need for nuclear reactors and the implications thereof, the dumping of nuclear waste at sea and alternatives, better energy sources and energy depletion, the motion of pollutants through the environment, and other related topics.

PHYS-110 Physics in Everyday Life, 3 cr. A laboratory oriented course for the non-science major. Central concepts of physics (the laws of mechanics and electricity, the properties of light, atoms and nuclei) and how they are applied in the modern world (rockets, electric motors, optical instruments, automobiles, toys, etc.). Knowledge of basic algebra skills is assumed. Lecture 2 hours, lab 2 hours. *Prereq.:* MATH-102.

PHYS-201 College Physics I, 3 cr. Kinematics and dynamics of particles and rigid bodies: Newton's laws, energy, momentum and angular momentum. Physics of fluids, vibration and sound. Heat and thermodynamics. *Prereq.:* MATH-106.

Concurrent registration in PHYS-203 strongly recommended.

PHYS-202 College Physics II, 3 cr. Electrostatics, Coulomb's law, electric fields, electric potentials, currents, Ohm's law, magnetism, magnetic fields, the forces on or due to moving charges, induction, electromagnetic radiation, wave motion, physical and geometrical optics. *Prereq.:* PHYS-201. *Concurrent registration in PHYS-204 strongly recommended.*

PHYS-203 Physics I Laboratory, 1 cr. Laboratory course covering the subject matter of Physics I, and meant to be taken concurrently. *Coreq.:* PHYS-201 or PHYS-206.

PHYS-204 Physics II Laboratory, 1 cr. Laboratory course covering the subject matter of Physics II and meant to be taken concurrently. *Coreq.:* PHYS-202 or PHYS-207. *Prereq.:* PHYS-203.

PHYS-206 Physics with Calculus I, 3 cr. This is the first term of a three-term sequence intended for students majoring in physics, chemistry, or mathematics, PHYS 206, 207, 215. Kinematics and dynamics of a particle and systems of particles, momentum, energy, angular momentum, conservation laws, applications to problems involving collisions, oscillatory motion and motion in a gravitational field, rigid body motion, temperature, heat, the laws of thermodynamics, application to thermodynamic engines, and ideal gases are discussed.

Prereq.: MATH-107 and either PHYS-201 or one year of high school physics. *Concurrent registration in PHYS-203 strongly recommended.*

PHYS-207 Physics with Calculus II, 3 cr. Charges, Coulomb's and Gauss's laws, conductors and dielectrics, Ohm's law, magnetic fields, Ampere's law, motion of charges in a magnetic field, Faraday's law, inductance, simple L.R.C. circuits, magnetic properties of matter, electromagnetic waves, kinematics of wave motion, reflection, refraction, interference, and diffraction.

Prereq.: PHYS-206. *Concurrent registration in PHYS-204 strongly recommended.*

PHYS-215 Physics III, 4 cr. Introduction to the physics of the twentieth century, including applications to related fields such as biology, chemistry, earth science, and engineering. Fundamental concepts of special relativity, quantum mechanics, and statistical physics as applied to atomic, molecular, nuclear and solid state physics. *Prereq.:* PHYS-202 or PHYS-207.

PHYS-301 Independent Study in Physics, 1 cr. Research, laboratory work, study or tutorial in a specific area of physics under faculty supervision. *Prereq.:* consent of department.

PHYS-302 Independent Study in Physics, 2 cr. (See PHYS-301 for description.)

PHYS-303 Independent Study in Physics, 3 cr. (See PHYS-301 for description.)

PHYS-308 Introductory Mathematical Physics, 3 cr. Vector and tensor analysis, matrices, and matrix algebra, ordinary differential equations with constant coefficients; Fourier series, introduction to complex variables. *Prereq.:* PHYS-207 (or PHYS-202 and MATH-203)

PHYS-309 Fortran and Numerical Analysis for Scientists, 3 cr. Introduction to the use of computers in solving scientific problems; Fortran programming is described and applied to several fundamental problems. *Prereq.:* MATH-202, or consent of instructor.

PHYS-311 Mechanics I, 3 cr. Statics of particles and rigid bodies, kinematics and dynamics of particles (including damped and forced harmonic oscillators), work and energy, linear and angular momentum, conservation laws, dynamics of rigid bodies, introduction to special relativity. *Prereq.:* PHYS-308.

PHYS-321 Electricity and Magnetism I, 3 cr. Coulomb's law, electric fields and electrostatic potential, Gauss's law, Poisson's equation, capacitance, dielectric media, current density, simple circuits, magnetic fields, Lorentz force, magnetic media, induction, Ampere's law, inductance, Maxwell's equations. *Prereq.:* PHYS-308.

PHYS-324 Advanced Classical Physics, 3 cr. Introduction to advanced topics in classical physics in preparation for the study of modern physics. Topics include the Lagrangian formalism of classical mechanics and its application to the theories of planetary motion, small oscillations, rigid body mechanics; Maxwell's equations, radiation and propagation of electromagnetic waves, the theory of special relativity.

Prereq.: PHYS-311 and PHYS-321.

PHYS-330 Intermediate Physics Lab, 3 cr. An introduction to scientific measurement procedures, with special attention paid to the examination of error and uncertainty and to certain widely used experimental techniques and their applications. Techniques used include those in optics, electronics, and atomic, solid state and nuclear physics. Experiments are chosen according to the individual student's needs and interests. This course may be taken up to three times. *Prereq.:* junior standing.

PHYS-331 Optics, 4 cr. The fundamental principles of geometrical and physical optics and their application to the design of modern instruments as well as atomic spectra, properties of photons, and lasers. Principles discussed in the lecture will be explored in various lab exercises. Lecture 2 hours, Lab 4 hours. *Prereq.:* PHYS-202 or PHYS-207, PHYS-204, and MATH-202.

PHYS-332 Electronics, 4 cr. Laboratory and lecture covering both the basic structure of various electronic components, and their use and behavior in circuits. The course begins with linear elements, such as resistors, inductors, and capacitors, and proceeds through various semiconductor devices, diodes, transistors, and operational amplifiers, and culminates with the structure and use of logic circuits. Major emphasis is placed on laboratory work where the properties and interactions of various circuits are investigated. Lecture 2 hours, Lab 4 hours. *Prereq.:* PHYS-204.

PHYS-335 Thermodynamics and Kinetic Theory, 3 cr. Thermodynamic systems; pressure and temperature; ideal gas laws; heat, work and energy; entropy; kinetic theory. *Prereq.:* PHYS-206 and MATH-202 or consent of instructor.

PHYS-336 Modern Physics I, 3 cr. First part of a two term sequence dealing with quantum physics. Review of the experimental evidence for the wave properties of light and discussion of atomic spectra and electron spin, elementary wave mechanics, the hydrogen atom, the properties of many electron atoms and the periodic table, and the structure of molecules. *Prereq.:* three 300-level physics courses.

PHYS-337 Modern Physics Lab, 2 cr. A series of experiments chosen according to each student's needs and interests in the fields of optics, electronics, and atomic, nuclear, and solid state physics. *Prereq.:* junior standing.

PHYS-338 Modern Physics II, 3 cr. Second part of a two term sequence dealing with quantum physics with primary emphasis on the physics of bulk matter: review of thermodynamics, classical and quantum statistics, the nuclear properties of solids, conductors, semi- and superconductors, ferromagnetism, nuclei, and elementary particles. *Prereq.:* PHYS-336.

PHYS-344 Introduction to Solid State Physics, 3 cr. Crystal Structure, crystal bonding, thermal properties of solids, dielectric properties, free electron model of metals, band theory of solids, magnetism, superconductivity, current applications. *Prereq.:* PHYS-336.

PHYS-350 Field Experience in Physics, 3 cr. Practical experience in industrial or government physics laboratories under the joint supervision of the department and the laboratory. There are six hours of field experience required per week. This course may be taken up to three times. *Prereq.:* sixteen credit hours of physics courses and consent of department.

PHYS-361 Materials I: Structural, Mechanical and Thermal Properties, 3 cr. An introductory course on the properties of materials for students in all areas of science and technology. Topics include structural, thermal and mechanical properties of metals, alloys, ceramics, and plastics, and their explanation in terms of molecular and atomic properties. Lecture 2 hours, Lab 2 hours. *Prereq.:* PHYS-215 or consent of instructor.

PHYS-362 Materials II: Electronic and Optical Properties, 3 cr. Companion course to Materials I with primary emphasis on the electronic properties of materials and their industrial use. Topics include conductors, semiconductors, superconductors, ferromagnetism and ferroelectricity, optical and infra-red properties. Lecture 2 hours, Lab 2 hours. *Prereq.:* PHYS-215 or consent of instructor.

PHYS-365 Microprocessor Electronics, 4 cr. The course acquaints the students with the basics of microprocessor technology, both from the point of view of understanding the theory of operation, and in learning to program and use these devices to accomplish a given task. The Motorola 6800 is the principal example, and each student has access to a microprocessor trainer for practical lab experiences. Interfacing microprocessors to each other and to the outside world is included, and the course culminates with each student completing a major interfacing project. Lecture 2 hours, Lab 4 hours. *Prereq.:* PHYS-332 or consent of instructor.

PHYS-366 Communication Electronics, 3 cr. The course covers tuned circuits, radio frequency amplifiers, intermediate frequency amplifiers, cavity resonators and U.H.F. amplifiers, modulation, detection, R.F. power amplifiers, transmitters,

transmission lines, antennas, television, and special topics in communication electronics, including digital methods and telemetry. Lecture 2 hours, lab 2 hours. *Prereq.:* PHYS-332 or consent of instructor.

PHYS-367 Transducer and Special Purpose Electronics, 4 cr. Lecture and laboratory on the characteristics of devices which convert physical quantities such as heat, light, motion, and sound into electrical signals. This includes both the practical aspects of using such devices and the intrinsic physical properties which make their use possible. Sensors used include thermistors, thermopiles, microphones, solar cells, and piezoelectric/pyroelectric films. The course culminates with each student doing a major project, which may include computer interfacing to the transducers. Lecture 2 hours, Lab 4 hours. *Prereq.:* PHYS-332 or consent of instructor.

PHYS-369 Instrumentation Electronics, 4 cr. Lecture and laboratory course on the properties and uses of electronic scientific instruments used in making physical measurements, including computer interfacing. The instruments are studied from input transducer to final output. A major emphasis is placed on laboratory work, where actual instrumentation circuits are built and tested. The course culminates with each student building an actual scientific instrument. Lecture 2 hours, Lab 4 hours. *Prereq.:* PHYS-332 or consent of instructor.

PHYS-391 Astrophysics, 3 cr. An introduction to such topics in astrophysics as the formation, structure, evolution, and death of planets, stars, clusters, galaxies, the universe (Big Bang), and other esoteric objects such as black holes, neutron stars, and quasars. Significant application of physics and mathematics is assumed. *Prereq.:* PHYS-202 and MATH-202 or consent of instructor.

PHYS-392 Beyond The Cosmos' Creation, 3 cr. Modern theories for the development of the universe from the Planck Time through the Radiation era and Matter era, to the possible end scenarios, as well as pertinent experimental evidence; Hubble's Law; the Big Bang; the inflationary Big Bang; the evolution of the universe with time and temperature; is the universe open or closed; Dark Mass?; current developments. *Prereq.:* PHYS-215 and PHYS-311 or consent of instructor.

POLITICAL SCIENCE

Jeffrey S. Hill, Ph.D., Associate Professor, Chair
 Russell Benjamin, Ph.D., Assistant Professor
 Ellen Cannon, Ph.D., Professor
 Lawrence P. Frank, Ph.D., Professor
 David A. Leaman, Ph.D., Associate Professor
 John J. Murphy, M.A., Professor
 Elaine Rodriguez, Ph.D., Assistant Professor
 Kusol Varophas, Ph.D., Professor
 Shu-Shin Wang, Ph.D., Professor
 Amanda Wooden, Ph.D., Assistant Professor

Political Science is central to an understanding of all basic social issues; therefore, an understanding of political life is indispensable for any well-educated person. The department currently offers an undergraduate major, a minor in political science, a minor in public administration, and a graduate program leading to the Master of Arts degree.

Areas of political science in which courses are offered include American Politics and Public Affairs; International Relations and Comparative Politics; and Political Theory. Within each area, major themes are explored (e.g., public policy and administration, political values and change, elite-mass relationships, and political parties and groups.)

Students interested in majoring in political science are urged to register as a major at the departmental office early, to meet with their advisors regularly, to check the current Schedule of Classes each term, and to become well acquainted with the requirements for political science majors. Information is available in the departmental office.

The Constitution examination required for graduation may be satisfied by taking the following course:

PSCI-216 American National Government...3 cr.

This course also fulfills the teachers' certification requirement in American government and the Human Relations requirements.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

UNDERGRADUATE PROGRAMS

Major in Political Science for the Bachelor of Arts Degree

Students majoring in political science must take at least 33 credit hours in political science.

Required Courses:

Two introductory courses selected from: 6 cr.
 PSCI-275 Introduction to World Politics
 PSCI-251 Comparative Political Systems
 PSCI-291 Concepts of Political Science
 PSCI-216 American National Government
 (These introductory courses are not open to majors in their senior year.)

PSCI-210 Introduction to Political Science 3 cr.
 (PSCI-210 must be among the first four political science courses taken.)

Eight 300-level courses 24 cr.
 to be distributed among:
 5 courses in one area of emphasis*
 2 courses in a second area
 1 course in a third area

Total 33 cr.

*The broad areas of emphasis recognized by the department are American Politics and Public Affairs; International and Comparative Politics; and Political Theory. These eight courses must be at the 300-level.

Minor in Political Science (18 cr. hrs.)

A minor in political science may be structured to complement a student's major in another department or to develop an area of interest. An assigned advisor will counsel a student in choosing six appropriate courses.

The following two courses are required: One course selected from PSC-275, PSCI-291, PSCI-251 or PSCI- 216; and the general survey of the discipline, PSCI-210. At least three courses should be taken at the 300-level.

Students in the Elementary Education and Early Childhood Education programs who have selected this minor must complete a minimum of 9 hours at the 300-level to meet graduation and certification requirements. Please note that if you use PSCI-216 American National Government to satisfy the Social and Behavioral Science General Education requirement, you must add a course to the Minor. In that case total credit hours will be 21.

Minor in Public Administration (18 cr. hrs.)

This minor will be of interest to students who would like to broaden the career opportunities available to them, students interested in public affairs and administration and students in non-traditional programs, such as the Board of Governors program, who wish to focus on governmental processes.

Required Courses:

PSCI-216 American National Government 3 cr.
 PSCI-341 Public Administration 3 cr.
 At least two courses from the following: 6 cr.
 PSCI-325 Public Policy 3 cr.
 PSCI-344 Public Organization Theory 3 cr.
 PSCI-345 Government Budgeting 3 cr.
 PSCI-346 Public Personnel Administration 3 cr.

Two 300-level courses relevant to Public Administration chosen with the aid of a departmental advisor, including, if desired, one or two additional courses from the list of four above 6 cr.
 Total 18 cr.

GRADUATE PROGRAM

Master of Arts in Political Science

Students have two options to choose from to fulfill the master's degree program requirements:

1. Thirty credit hours of course work, a thesis for six credit hours, and an oral examination, or
2. Thirty-six credit hours of course work, a written comprehensive examination, and an oral examination.

A student interested in the thirty credit thesis option must secure approval of the department. Only students who have demonstrated high proficiency in various aspects of graduate studies (writing, discussion, analysis, creativity, etc.) will be permitted to write a thesis.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College. (These are set out in the academic catalogue in the section "The Graduate College." Applications may be secured from the Graduate College, located in CLS 4029).

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. **Consult with your program advisor or the Graduate College for details.**

Students must select one area of emphasis from the following:

- American Politics and Public Affairs
- International and Comparative Politics
- Political Theory

Students are required to take:

1. PSCI-401 Classics of Political Science, preferably as a first course.
2. PSCI-402 Research Methods in Political Science, if possible before graduate seminar courses.
3. Five courses in the area of emphasis, including a 400-level seminar or a thesis seminar.
4. Three courses selected from a second area.
5. Two elective courses from any area of emphasis.

COURSE OFFERINGS

PSCI-210 Introduction to Political Science, 3 cr. An introduction to the discipline through an examination of the concepts and skills utilized in the contemporary study of politics. The course provides an overview of political science, including its various sub-fields, and a framework for further study.

PSCI-216 American National Government, 3 cr. Description and analysis of national political institutions and processes. Current issues and problems of American government.

PSCI-251 Comparative Political Systems, 3 cr. Comparison of several diverse political systems to illustrate the range of political life and to provide a broad perspective from which to view the American political system.

PSCI-275 Introduction to World Politics, 3 cr. General introduction to world politics with emphasis on current issues and events of importance at the international or global level. Basic concepts and methods of political analysis are introduced.

PSCI-291 Concepts of Political Science, 3 cr. Analysis of a number of crucial political concepts, such as equality, justice, political obligation, representation, rights, and law.

PSCI-301 Independent Study in Political Science, 3 cr. Intensive investigation of a special area of political science or a contemporary political issue. *Prereq.: consent of instructor.*

PSCI-302 Independent Study in Political Science, 2 cr. (See PSCI-301 for description.)

PSCI-303 Independent Study in Political Science, 1 cr. (See PSCI-301 for description.)

PSCI-304 Field Experience, 3 cr. Placement in a government agency, political office or related institution for 8 hours per week. Opportunity for testing classroom concepts and theories, career exploration and the development of problem solving, research and social skills. Meetings arranged. *Prereq.: six hours in the Behavioral/Social Sciences and consent of instructor.*

PSCI-305 Internship I, 6 cr. (See description for PSCI-304. Hours in placement increased to 16 hours per week.)

PSCI-306 Internship II, 6 cr. (See description for PSCI-304. Hours in placement increased to 16 hours per week.)

PSCI-307 Topics in Political Science, 3 cr. Exploration at an advanced level of current issues and special concerns in political science. Consult the schedule of classes for specific topics.

PSCI-308 Research Methods and Techniques in Political Science, 3 cr. Designed for upper division majors in political science or those intending to undertake graduate study in political science, the course provides an introduction to topics and skills given more intensive and specialized consideration on the graduate level. Topics include an introduction to the various research techniques in political science, with emphasis on developing skills necessary for graduate work in the discipline areas of concentration: development of research designs, identification of appropriate data sources, discussion of alternative methodologies, and data analysis techniques. *Prereq.: consent of instructor.*

PSCI-310 Congress and the Legislative Branch, 3 cr. Introduction to the U.S. Congress as a political and legislative body; includes analysis of the committee system, rules, and differences between House and Senate; examines problems of representation and executive-legislative relations. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-311 The American Judiciary and the Judicial Process, 3 cr. An analysis of the judicial policy-making process at all levels of the American judiciary with special emphasis on the Supreme Court's role in constitutional development, separation of powers, and the historical and political context of constitutional law doctrines. Critical cases are examined. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-312 American Presidency and the Executive Branch, 3 cr. The role of the President and the executive branch in the American governmental system. Contemporary problems of the Presidency and the bureaucracy. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-313 State Government and Politics, 3 cr. Examination of political institutions at the state level: governor, legislature, judiciary, constitution, parties, and administration. Analysis of state politics within and outside the institutional framework. Discussion of major problems and functions of state framework. Discussion of major problems and functions of state governments today. Emphasis on Illinois government and politics. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-315 Electoral Politics, 3 cr. A review of major developments in electoral politics (including political parties and electoral law) and voting behavior in recent years, and an analysis of current elections. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-316 Pressure Groups: Power, Participation, and Public Policy, 3 cr. Examination of the role of interest groups in political systems, with emphasis on groups in American politics—their membership, organization, activities, goals, and impact on American public policy with special attention on the role of groups as representative agents and their functioning as facilitators or resisters with regard to social change. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-317 Public Opinion, Mass Media, and American Politics, 3 cr. The role of public opinion in American politics, techniques of polling and survey research, the impact of mass media on opinion and on candidate preferences; introduces concepts of political culture and socialization. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-319 The Politics of Law, 3 cr. Consideration of various definitions of law, the impact of law on the behavior of various actors; the political, social, and economic forces which mold law; the influence of the legal system on the various actors within it; and theoretical efforts to explain the relationships of law and society, with emphasis on the trial courts, the organization of the bar, the origin of litigation, and the political consequences of lower court involvement in social conflicts. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-320 Constitutional Law, 3 cr. The role of the Supreme Court and its impact on the constitutional development of the due process clause, civil liberties, First Amendment freedoms, and the equal protection of the laws are traced with particular emphasis on the assessment of the role of the Supreme Court vis-a-vis the states and the national government in protecting and restricting civil liberties. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-323 American Ideologies, 3 cr. Exploration of various ideologies that attempt to explain the nature of American society and politics; a discussion of belief systems and value orientations; consideration of diversity and change in a system of fundamental stability; analysis of variants of left and right ideologies. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-325 Public Policy, 3 cr. Introduction to the analysis of public policy, including the policy-making institutions and processes; normative and empirical models of policy-making, and case studies of specific public policies. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-326 Educational Policy in America, 3 cr. This course examines the politics and policies of education. Education policy encompasses the basic interests and values of society. But in a pluralistic society such as the United States, there is often deep disagreement over those values. Such is the case with education. This course will focus on struggle with an aim to demonstrate that educational policy is never really about education per se but about politics and struggle over specific interests. *Prereq.: PSCI-216.*

PSCI-327 Government and Economy, 3 cr. Exploration of the role and purpose of government and market in the American economy; discussion of contemporary issues (e.g., income distribution or government regulation); international comparisons.

PSCI-334 Intergovernmental Relations, 3 cr. Impact of federalism on policy-making and administration in the American system; focuses on the interaction between federal government and states, metropolitan areas, and cities in the development and implementation of public policy. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-335 Urban Politics, 3 cr. Types of urban government and politics; ability of the governmental institutions to meet the demands and respond to the needs of urban areas; community power and control; citizen participation and decentralization of governmental services. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-336 Urban Government Administration, 3 cr. Introductory survey of local governmental administration; powers of municipal corporations, special districts and other jurisdictions; taxation, revenue and budgeting, common administrative structures, and institutionalized forms of urban leadership and control. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-338 Chicago Politics, 3 cr. The structure of the government of the City of Chicago and its associated politics; the development of the Daley machine and its aftermath with particular focus on the impact of race on contemporary political behavior; including analysis of voting patterns and blocs within the City Council. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-339 Laboratory in Urban Politics, 3 cr. First-hand observation of urban governmental organization, political parties, and politically active citizen groups; written and oral reports and class discussion of field observations. *Prereq.: three credit hours in urban politics or consent of instructor.*

PSCI-341 Public Administration, 3 cr. Introduction to the role of public bureaucracies in the political system. A general overview of major concepts, processes, and problem areas in the field of public administration. Intended for undergraduate students; graduate students seeking a general overview of the field should take PSCI-441. *Prereq.: PSCI-216 or consent of instructor.*

PSCI-344 Public Organization Theory, 3 cr. Review of theories concerning public bureaucracies, their internal functioning and societal roles; analysis of the organizational setting of work and its implications; organizational effectiveness, decision-making, leadership and policy formulation, and change in public organizations. *Prereq.: PSCI-341 or consent of instructor.*

PSCI-345 Government Budgeting, 3 cr. Fiscal policy and budget process; historically changing functions of budgeting — from emphasis on control to managerial effectiveness; reassertion of Congressional authority in 1974 and the new budget cycle; zero-based budgeting; impoundment, transfer payments, and grant-in-aid. *Prereq.: PSCI-341 or consent of instructor.*

PSCI-346 Public Personnel Administration, 3 cr. Organization and administration of the personnel function in public bureaucracies; relations of personnel management to operating departments and agencies; the scope of public personnel services; appraisal of policies and practices in selected areas of personnel management, such as selection and training, human relations, and motivation. *Prereq.: PSCI-341 or consent of instructor.*

PSCI-348 Topics in Public Administration, 3 cr. Exploration at an advanced level of current issues and special concerns in public administration. *Prereq.: PSCI-341 or consent of instructor.*

PSCI-350 International Relations in Asia, 3 cr. The foreign policies of various Asian nations with special attention to the relations among these nations as well as their relations with other areas of the world. *Prereq.: PSCI-251.*

PSCI-351 Government and Politics of Japan, 3 cr. The modern Japanese political system; the relationship between the Japanese people and their institutions, including the interrelationships between the traditional and the modern with emphasis on the structures and processes of Japanese government and politics since World War II. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-353 Government and Politics of China, 3 cr. The structure and activities of the Chinese Communist party and state communist outlook; ideologies and significant internal and foreign problems. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-354 Islamic Civilization: Government & Politics, 3 cr. Islam is not only one of the major religions of the world but also a political Ideology claiming nearly one billion adherent—about one-fourth of the entire world population. Its impact on the world within the last 1400 years is so powerful that one cannot study History, Religion, Culture, Politics, Economics and Civilizations without correctly understanding Islam not only as a Religion but also as a force affecting world events.

PSCI-355 The Politics of Islam, 3 cr. Discussion of the religion of Islam and the Islamic political institutions; influence of Islamic political thought and religion on political systems

currently operating in major Muslim countries. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-358 Modern European Governments, 3 cr. Comparative study of the politics and governments of several major European nations. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-360 Politics of Sub-Saharan Africa, 3 cr. Examination and comparison of the politics of selected African states; particular emphasis on traditional heritage, colonial background, ideological setting, political parties, role of the military, governmental structure, and problems of nation-building. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-363 Politics of the Middle East, 3 cr. The impact of the physical environment, the economic conditions, and the historical heritage on the political structures presently operating in the region; analysis of the region in its world context. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-364 Islamic Civilization: Political Ideology and Theory, 3 cr. This course will provide an in-depth view of Islamic Civilization, it's development, it's rich heritage, and it's effects on the social and political life of societies in several parts of the world.

PSCI-365 Politics and Government of Mexico, Central America, and the Caribbean, 3 cr. The political systems in Mexico, Central America, and the Caribbean; comparison of the social, economic, and political conditions of each; the strategic importance of this region to the United States. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-366 Politics and Governments of South America, 3 cr. Examination of the various political systems on the continent of South America with comparisons of social and political institutions of the various countries. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-367 Government and Politics of South and North Korea, 3 cr. Based on a comparative perspective, this course will focus on the two Koreans' political, economic, military, social, educational and cultural developments since the end of the Second World War in 1945. The two Koreans have had different ideologies and different political systems and both of them, like China and Taiwan, have played and will play an extremely important role in the security of the Asian-Pacific Rim. In other words, whether or not the peace in Asia can be maintained depends on the political wisdom of the top leaders in North and South Korea and in the United States.

PSCI-368 The Politics of the Soviet and Post-Soviet World, 3 cr. Political history of the Soviet period, including the structure and operation of the Soviet Communist Party. Dissolution of the Soviet system, analysis of present transition period and future economic and political prospects for Russia and bordering states. *Prereq.: PSCI-251 or consent of instructor.*

PSCI-369 Russia in International Politics, 3 cr. Analysis of the new Russian state as a leader of the former Soviet states and its former Warsaw Pact allies, tensions and new developments; relations with the United States and with the European Community; Russia as a major actor in global politics. *Prereq.: PSCI-251 and PSCI-368 or consent of instructor.*

PSCI-371 Canadian Government and Politics, 3 cr. The Canadian political system with analysis of the constitutional development, the structure of government, political parties and pressure groups, problems of regionalism and nationality, questions of foreign policy and relationship with the United States. *Prereq.:* PSCI-251 or consent of instructor.

PSCI-373 Gender and Politics, 3 cr. A study of the relationship of gender and gender roles to political attitudes, beliefs and behavior. The nature of political socialization is considered as well as political and economic structures pertinent to gender distinctions. The approach is comparative. *Prereq.:* PSCI-251 or consent of instructor.

PSCI-375 Contemporary International Relations, 3 cr. Basic principles and problems; emphasis on contemporary issues in international political life. *Prereq.:* PSCI-216 or PSCI-251 or consent of instructor.

PSCI-376 Principles of International Relations, 3 cr. Content and method of studying international relations; classical and behavioral approaches. *Prereq.:* PSCI-216 or PSCI-251 or consent of instructor.

PSCI-377 International Organizations: Theory and Practice, 3 cr. Evolution of existing theories in the area of worldwide and region-wide cooperation among sovereign states. Survey of writings of recognized scholars, as well as commentaries. *Prereq.:* PSCI-375 or PSCI-376 or consent of instructor.

PSCI-379 War and Peace, 3 cr. War as a social institution; causes of war and the conditions of peace; prospects and proposals for a peaceful world order. *Prereq.:* PSCI-216 or PSCI-251 or consent of instructor.

PSCI-380 International Law, 3 cr. Evolution of international law from theological statements to modern jurisprudence; ramifications of the state as the single most important international person and its multifaceted activities; case briefing as a method of studying international law. *Prereq.:* PSCI-376 or consent of instructor.

PSCI-381 International Terrorism, 3 cr. Investigation of terrorism, beginning with the problem of definition. Origins and evolution of terrorism as well as motivations and inspirations of those who have embraced terrorism. A selection of terrorist organizations will be studied.

PSCI-383 United States Foreign Policy Since World War II, 3 cr. Description and analysis of the important changes in traditional American foreign policy that have occurred since World War II; the international responsibilities that the United States has shouldered as a world power; the political, economic, and social factors that are conditioning and limiting American foreign policy today. *Prereq.:* PSCI-216 and three credit hours of American history or consent of instructor.

PSCI-384 United States and the World Economy, 3 cr. A study of the nature and structure of the world economy and the role played by the U.S. in the post-World War II economy. Topics such as the Bretton Woods System, the Gold Window and flexible exchange rates and their political, social, economic and strategic dimensions.

PSCI-388 International Relations of the Middle East, 3 cr. Struggles for power and peace in this strategic region of

the world; nature and frequency of interactions between the nations of the region and between these nations and the great powers. *Prereq.:* PSCI-251 or consent of instructor.

PSCI-390 Classical Political Theory, 3 cr. Analysis of the concept of a political community in terms of obligations, rights, the public interest, the just state, and the just individual. Selected writings of Plato, Aristotle, Sophocles, Aristophanes, Xenophon, and others. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-391 Modern Political Theory, 3 cr. Analysis of the tensions between the individual and society. Concepts of society, natural rights, political obligation, consent, the rule of law, social contract, and revolution examined through selected writings of Machiavelli, Hobbes, Locke, Rousseau, Burke, Mills, Marx, and Pateman. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-392 Contemporary Political Philosophy, 3 cr. Problems of contemporary political philosophy are examined through selected writings of twentieth century political philosophers with particular emphasis on the breakdown of authority, political obligation, the decline of political participation, technology versus human values, revolution, the use and meaning of violence, and the concept of public interest. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-393 Contemporary Political Analysis, 3 cr. Analysis of behavioralism, decision-making theories, quantitative approaches to politics, structural-functionalism, systems theory, game theory, political development theory, and interest group theory. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-394 Selected Political Theorists, 3 cr. An in-depth examination of a selected political theorist's works as well as the critical literature. A different theorist will be examined each semester. Consult the Schedule of Classes for specific topics. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-395 Early American Political Thought, 3 cr. Topics including the American revolution, the writing of the constitution, and the crisis of the Republic will be examined through selected writings of the following theorists and activists: Winthrop, Adams, Paine, Jefferson, Hamilton, Madison, Calhoun, Stanton, Thoreau, Douglass, Grimke, and Lincoln. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-397 African Political Thought, 3 cr. African political thought is examined through selected writings of important African leaders and writers dealing with political development in the new states of Africa with particular focus on the problems of African identity (African values versus westernization), African socialism, Pan-Africanism, and the one party state. *Prereq.:* PSCI-291 or PSCI-251 or consent of instructor.

PSCI-398 Law and Social Change, 3 cr. An assessment of the possibilities and limitations of law as an instrument of social change through an examination of the status of minorities and women, the social control of corporate behavior, and the politics of rights. *Prereq.:* PSCI-216 or consent of instructor.

PSCI-399 Pro-Seminar in Political Theory, 3 cr. In-depth reading and discussion of concepts and modes of analysis relevant to political theory. Consult the Schedule of Classes for topics. *Prereq.:* PSCI-291 or consent of instructor.

PSCI-401 Classics of Political Science, 3 cr. An examination of selected classics of the discipline of political science, with a special emphasis on major contributions of the modern era. This course provides students with an opportunity for close analysis of complex works in political science. *Prereq.:* graduate standing.

PSCI-402 Research Methods in Political Science, 3 cr. Introduction to the various techniques in political science with emphasis on developing skills necessary for graduate work in the department. Areas of concentration: development of research designs, identification of appropriate data sources, discussion of alternative methodologies, data analysis techniques. *Prereq.:* graduate standing.

PSCI-404 Thesis Seminar—Political Science, 6 cr. Guided research and preparation of the thesis required for the Master of Arts degree in Political Science. *Prereq.:* master's degree candidacy in political science.

PSCI-405 Independent Study in Political Science, 3 cr. Research and investigation into special topics and preparation for a research paper(s) under individual faculty guidance. *Prereq.:* graduate standing.

PSCI-406 Independent Study in Political Science, 2 cr. (See PSCI-405 for description.)

PSCI-407 Independent Study in Political Science, 1 cr. (See PSCI-405 for description.)

PSCI-408 Graduate Internship, 3 cr. Placement in government agency, voluntary or third-sector organization, advocacy group, political office, or related institution. Opportunity for career-exploration, skill-development, or specialized training. (Hours in placement: 10 per week) *Prereq.:* graduate standing.

PSCI-411 Readings in Current Political Issues, 3 cr. Intensive reading on a current issue in political science. In consultation with the instructor, students select topics within the general issue, prepare a reading program on the topic, analyze the problems and methods involved, and present a written and/or oral discussion of the major books and articles dealing with the chosen topic. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing.

PSCI-412 American Political Elites, 3 cr. The nature and impact of elites in the American political system. Readings and discussion will include Plato, Marx, Michels, and various contemporary treatments of the nature of American society. Special topics will be covered on the basis of students' particular interests. *Prereq.:* graduate standing and one course in American politics or consent of instructor.

PSCI-417 Seminar in Political Behavior, 3 cr. Sociological and psychological perspectives in political science; how political attitudes and preferences are formed; comparative political cultures; social and psychological determinants of political participation and political decision-making; American voting behavior; discussion of current research in these areas; writing and presentation of seminar papers. *Prereq.:* master's degree candidacy in political science and PSCI-402.

PSCI-427 Seminar in American Policy-Making Process, 3 cr. Analysis of legislative, executive, administrative, and judicial policy-making processes at the national government

level with emphasis on current research, case studies in policy-making, and presentation of seminar papers. *Prereq.:* master's degree candidacy in political science and PSCI-402.

PSCI-437 Seminar in Urban Politics, 3 cr. Analysis of the politics of metropolitan areas, with emphasis on the mobilization of resources for urban problem-solving, and the political forces that impede the solution of such problems. Students will write and present research papers on urban politics in the Chicago metropolitan area. *Prereq.:* graduate standing and PSCI-402.

PSCI-440 Research Methods in Public Administration, 3 cr. Research techniques in the study of public administration. Methods taught will include techniques utilized by both political scientists and public administrators: case studies, decision-making analysis, cost-benefit analysis, and others. *Prereq.:* graduate standing and consent of instructor.

PSCI-441 History and Literature of Public Administration, 3 cr. A review of major historical periods in public administration theory and practice and consideration of present tendencies and possible future developments. Consideration of standard summaries of the development of the discipline and primary, classical sources as well as key theorists and concepts of the discipline. *Prereq.:* graduate standing.

PSCI-442 Public Bureaucracies, 3 cr. Review of classic and contemporary literature on bureaucracy; analysis of the concept of bureaucracy; examination of selected public bureaucracies; strengths and limitations of the bureaucratic form of work organization; proposed alternative forms of work organization in the public sector; problems of accountability and public control. *Prereq.:* graduate standing and PSCI-441 or PSCI-341 and consent of instructor.

PSCI-444 Comparative Public Administration, 3 cr. Study of the significance of public administration in a comparative setting with particular emphasis on the Third World; cultural impact on bureaucratic behavior; international and United States technical assistance in public administration; bureaucracy and development; comparative public policy; Third World perspectives and the recent critiques of administratively generated and First World inspired development. *Prereq.:* graduate standing and PSCI-441 or PSCI-341 or consent of instructor.

PSCI-447 Seminar in Public Policy Analysis, 3 cr. Study of governmental policy and program implementation from the perspective of policy choice, decision-making, and evaluation. Topics include criteria for evaluation of policy, techniques of analysis such as forecasting and scenario development, impact analysis, client satisfaction, and inequalities of result. *Prereq.:* graduate standing, PSCI-341 or PSCI-441, and PSCI-402 or consent of instructor.

PSCI-465 Seminar in African Politics, 3 cr. An examination of crucial problems in African politics with particular emphasis on modernization and creating political order. Research will focus on political participation, political institutions, national integration, ideology, the strains of modernization, the role of the military. *Prereq.:* PSCI-402, and six credits in the appropriate area in political science.

PSCI-467 Seminar in Comparative Politics, 3 cr. Analysis of selected problems in comparative politics, such as the nature of political development, the relation of capitalism to various forms of government, the future of advanced industrial societies; presentation and discussion of seminar papers. Consult the Schedule of Classes for specific topics. *Prereq.:* graduate standing and PSCI-402.

PSCI-473 Seminar in International Relations, 3 cr. Analysis of selected problems in international relations, such as causes of international conflict, international diplomacy, conflict resolution, and problems in international law; presentation and discussion of seminar papers. Consult the Schedule of Classes for specific topics. *Prereq.:* master's degree candidacy in political science and PSCI-421.

PSCI-475 Seminar in the Behavioral Aspects of International Relations, 3 cr. Research, seminar papers, and discussion on the socio-psychological approaches to the study of international relations; topics include the role of nationalism in international conflict, decision-making in international relations, national and international image formation, and the socio-psychological determinants of foreign policies. *Prereq.:* master's degree candidacy in political science and PSCI-402.

PSCI-476 Unified Germany in Changing Europe, 3 cr. The course will review the historical background of post-WW II Germany; the reunification process (its problems and potentials); and the role of the "new" Germany in the "new Europe." Still politically and economically dominant in Europe, the question to be explored is whether Germany's future complements or competes with attempts to bring all of Europe together. *Prereq.:* graduate standing and PSCI-402.

PSCI-477 Political Integration in Western Europe, 3 cr. Focus on post-World War II political integration in Europe; examination of various European international and supranational organizations, with emphasis on the dynamics of political integration in the European Community. *Prereq.:* master's degree candidacy in political science.

PSCI-497 Seminar in Selected Problems in Political Theory, 3 cr. An examination of crucial problems in political theory; the basis for moral values, political obligation, the nature of state, the concept of human nature, theories of representation, political change, and natural rights. *Prereq.:* master's degree candidacy in political science, PSCI-402, and six credit hours in the appropriate area of political science.

PSYCHOLOGY

Saba Ayman-Nolley, Ph.D., Professor, Chair
Margaret E. Condon, Ph.D., Professor
Ruth Breckinridge Church, Ph.D., Associate Professor
Hubert Dolezal, Ph.D., Professor
Maureen Wang Erber, Ph.D., Associate Professor
David Farmer, Ph.D., Assistant Professor
Carol A. Gaetjens, Ph.D., Assistant Professor
Suzanne Gaskins, Ph.D., Associate Professor
Lisa Hollis-Sawyer, Ph.D., Assistant Professor
William J. Pizzi, Ph.D., Professor
Linda M. Rueckert, Ph.D., Associate Professor
Therese Schuepfer, Ph.D., Professor
Masami Takahashi, Ph.D., Assistant Professor

Psychology is the science that deals with the brain and human behavior in all its forms: psychological, cognitive, emotional, individual, and group. Its methods range from those similar to the ones used in the humanities to those used in the natural sciences. It offers students a perspective which is not only a career in itself but also a useful adjunct to any discipline.

The Department of Psychology offers an undergraduate program that leads to a Bachelor of Arts degree in Psychology and a graduate program which leads to a Master of Arts in Gerontology. In both of these programs, the department prepares students for careers in those areas that make particular use of a knowledge of human behavior and development. These include human resource and personnel positions in industry, direct service work in the social services, and research associate positions in academic and industrial settings. Students are also prepared for pursuing further education in any of the major areas of psychology.

The department faculty members represent a number of theoretical approaches as well as a wide range of content areas. This enhances the student's opportunity to become acquainted with the full scope of this broad and complex subject. Because of the need to create a combination of courses consistent with their career goals, students are urged to form a continuing relationship with a faculty advisor in the department early in their major.

The interdisciplinary nature of psychology requires familiarity with other fields. Students intending to pursue graduate studies should have a strong background in mathematics and the natural sciences. All psychology majors will benefit from course work in philosophy, physiology, literature, history, the social sciences, and computer science.

Students should seriously consider participating in the optional field experience program. For details, see the section on Field Experience. Additional information is available from the department program advisor.

Minors in psychology and in gerontology are also offered. Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

UNDERGRADUATE PROGRAMS

Major in Psychology for the Bachelor of Arts Degree

Required Courses:

- PSYC-200 General Psychology 4 cr.
- PSYC-202 Statistics and Research Methods I 3 cr.
- PSYC-302 Statistics and Research Methods II 3 cr.

Select one of the following: 3 cr.

- PSYC-308 Laboratory, Research Methods: Tests and Measurements
- PSYC-316 Laboratory, Research Methods: Child Development
- PSYC-331 Laboratory, Research Methods: Personality
- PSYC-341 Laboratory, Research Methods: Clinical
- PSYC-351 Laboratory, Research Methods: Physiological Psychology
- PSYC-361 Laboratory, Research Methods: Social Psychology
- PSYC-372 Laboratory, Research Methods: Operant Conditioning
- PSYC-374 Laboratory, Research Methods: Perception and Cognition

Select one course from each of the following three categories:..... 9 cr.

- A. PSYC-350 Physiological Psychology, or PSYC-370 Theories of Learning, or PSYC-373 Human Perception
- B. PSYC-330 Psychology of Personality, or PSYC-340 Abnormal Psychology
- C. PSYC-310 Developmental Psychology, or PSYC-360 Social Psychology

Two electives in psychology6 cr. (200 or 300 level, up to one 200 level may be used)

Senior Capstone Project (proposed in advance with assistance from your faculty advisor and approved by department chairperson) 3 cr. Total 30-31 cr.

NOTES: Psychology courses used as electives within the major must be at the 200 or 300 level. No more than one 200 level course may be used here.

The following rules apply to the major and minor in psychology and the minor in gerontology: Transfer courses must be approved by the department before being applied to the major or minors. For transfer students at least one half of the courses applied to the major (15 semester hours) or minors (9 semester hours) must be taken at Northeastern. No more than two courses (6 semester hours) transferred in from junior/community colleges may be applied to the major or minors. Junior/community college courses may not be used in place of 300-level Northeastern courses. Students who

transfer in an approved 3 semester hour course equivalent to General Psychology may complete the major with 30 semester hours, or the psychology minor with 18 semester hours.

The same courses may not be used to fill requirements in two different programs within the department.

Minor in Psychology (19 cr. hrs.)

Required Courses:

- PSYC-200 General Psychology 4 cr.
- PSYC-202 Statistics and Research Methods I 3 cr.

Select one course from each of the following three categories:..... 9 cr.

- A. PSYC-350 Physiological Psychology, or PSYC-370 Theories of Learning, or PSYC-373 Human Perception
- B. PSYC-330 Psychology of Personality, or PSYC-340 Abnormal Psychology
- C. PSYC-310 Developmental Psychology, or PSYC-360 Social Psychology

One elective in psychology 3 cr. (200 or 300 level)

(See "Notes" above for additional information about earning a minor in psychology.)

Minor in Gerontology (18 cr. hrs.)

The minor in gerontology is designed to help meet the need for trained professionals in the field of aging. Students gain theoretical knowledge about the process of aging as well as the practical knowledge needed to work with the aged. Courses focus on both middle-aged and older adults.

Required Courses:

- PSYC 324 Geropsychology 3 cr.
 - PSYC 325 Psychosocial Development and Aging 3 cr.
 - PSYC 327 Psychotherapy with the Aging 3 cr.
 - PSYC 328 Seminar in Aging 3 cr.
 - Practicum or field placement (in a designated academic department or in the Department of Psychology) 3 cr.
 - An interdisciplinary elective from the department's approved list 3 cr.
- Total 18 cr.

(See "Notes" above for additional information about earning a minor in gerontology.)

NEUROSCIENCE

The departments of Psychology and Biology co-sponsor courses designed to prepare students for graduate work in areas related to neuroscience. The courses emphasize interdisciplinary studies and actual research experience.

Interested students are advised to contact the chairperson of the Psychology or Biology Departments as early as possible in their academic careers.

FIELD EXPERIENCE

Academic credit may be earned through relevant work at field centers such as: psychiatric hospitals, correctional facilities, drop-in centers, schools, and businesses. The work may involve counseling, outreach, tutoring, or research. This program serves to integrate theoretical concepts with practical experience. Training is jointly supervised by a field experience supervisor on site and a faculty member on campus. Information about an undergraduate field experience may be obtained from the program advisor in the psychology department.

GRADUATE PROGRAM

Master of Arts in Gerontology

The master's degree program in gerontology is a multi disciplinary degree intended to provide both breadth and depth in the study of aging. The required portion of the 36 credit program consists of three parts: The classroom component consists of seven required courses (21 credits), the experiential component consists of an internship (3 credits) and the capstone component involves a thesis (3 credits). In addition to the internship, a practicum is required for those students who do not have prior experience in the field. The thesis may be in basic or applied research or may be a theoretical integration of a topic area.

The combination of required and elective courses prepares graduates to assume positions of responsibility in direct service, administration, social policy, and research with, or on behalf of, older people.

By design the program is part-time, with courses offered in the evening and Saturdays. A student may complete all but the thesis in three academic years by enrolling in one course in the first semester and two courses each semester thereafter. The thesis is the final course and is usually taken after all classroom work is completed.

Requirements for Admission to the Program:

Students must fulfill the general admission requirements of the Graduate College at Northeastern Illinois University.

Students seeking admission to the M.A. in Gerontology program must have completed 15 undergraduate credits in the social sciences (anthropology, psychology, political science, sociology, etc.) In addition, applicants must have completed one (3 credit) course in statistics. If applicants meet all other requirements, the statistics requirement may be fulfilled after conditional admission to the Program. In this case they will be expected to complete an undergraduate course in statistics before being allowed to enter PSYC-AGED-408 Research Methods and before filing for degree candidacy. The undergraduate statistics course does not count toward the 36 hours for the M.A. degree.

Requirements for the Degree:

For students admitted to Master's programs prior to the Fall 1997 semester, the majority of courses applied to the Master's degree must be 400-level; a limited number of appropriate 300-level courses are applicable.

Required Courses:

PSYC-AGED 401	Gerontology: An Overview	3 cr.
PSYC-AGED 402	Developmental Processes in Later Life	3 cr.
PSYC-AGED 408	Research Methods in Gerontology	3 cr.
PSYC-AGED 418	Public Policy and Aging	3 cr.
PSYC-AGED 426	Values, Decision-Making and the Elderly	3 cr.
PSYC-AGED 420	Seminar in Proposal Writing	3 cr.
EXCR 422	Physiology of Aging	3 cr.
		<hr/> 21 cr.

Required Field Experience 6 cr.

For those without previous experience in the field		
PSYC-AGED 415	Practicum	3 cr.
PSYC-AGED 416	Internship	3 cr.
For those with demonstrated experience		
PSYC-AGED 416	Internship	3 cr.
		<hr/> 3-6 cr.

Required Capstone Experience:

PSYC-AGED 422	Thesis Seminar	3 cr.
		<hr/> 3 cr.

Elective Courses:

These electives may be courses from within the PSYC-AGED curriculum or other departments such as Counseling, Political Science, Human Resource Development or Business and Management. See faculty advisor for listing of approved electives.

6-9 cr.

COURSE OFFERINGS

PSYC-100 Survey of Psychology, 3 cr. An introduction to the study of psychology as a dynamic and changing system of interrelated and interacting areas.

PSYC-110 Life Span Development, 3 cr. An introductory class on human development across the life span, from conception to death. Explores the description, explanation, and function of different aspects of development: physical, psychological, and social. Designed as a general education course for non-majors, the main purpose of the course is to present the general underlying structures and mechanisms of development. Some of the major theories and research findings will also be covered.

PSYC-200 General Psychology, 4 cr. General introduction to the study of psychology as a science. A personalized system of instruction permits flexible scheduling and different rates for fulfilling requirements. The text covers approximately 25-30 units of material. Tutoring and instructional aides are available. **Prereq.:** Reading placement score of 5 or appropriate READ DEV course(s).

PSYC-202 Statistics and Research Methods I, 3 cr. The first half of a sequence that is intended to prepare students to be consumers/producers of research. In this course students will learn basic descriptive statistics, correlation and regression, basic elements of research design and APA style. Students will be required to design a project and write the introduction and method. *Prereq.: PSYC 200 and MATH 102.*

PSYC-210 Parenting, 3 cr. Parenting integrates concepts, data, and methods from child development, learning theory, and applied behavior analysis and utilizes them in the context of a positive parenting philosophy to advance normal child skills development.

PSYC-215 Child Psychology, 3 cr. Basic theories, concepts, principles, and research data concerning the physical, intellectual, emotional, and social aspects of development in children.

PSYC-300 Special Topics in Psychology, 3 cr. Special and timely topics in psychology. Discussion, reading, and/or library research. Consult the Schedule of Classes for specific topics. *Prereq.: PSYC-200.*

PSYC 301 Research in the Social Sciences, 3 cr. This course is intended to give students the knowledge and skills necessary to interpret research literature in the social sciences and to write a focused literature review in correct APA style. It will cover the conceptual basis of descriptive and inferential statistics and the basic theoretical premises underlying the scientific method and sound research design. The emphasis will be on interpretation rather than computation and will use both textbook examples and actual journal articles as focal points for instruction.

PSYC-302 Statistics and Research Methods II, 3 cr. This course is the second half of a sequence that is intended to prepare students to be consumers/producers of research. In this course students will learn parametric and nonparametric inferential statistics through three-way analysis of variance, elements of complex experimental and quasi-experimental design, and research elements of APA format. Students will be required to collect data, analyze and discuss results, and write a formal results and discussion section. *Prereq.: PSYC 202 and ENG 102. Majors only.*

PSYC-303 Advanced Statistics, 3 cr. An extension of concepts covered in the introductory statistics course (PSYC-302): advanced correlation techniques, analysis of variance, and sampling statistics. *Prereq.: PSYC-302.*

PSYC-307 Psychological Tests and Measurements, 3 cr. Principles and methods of measurement and evaluation: elementary statistical concepts, reliability and validity, interpretation of test results, standards for psychological and educational tests, principles of test construction, and use of psychological and educational tests. *Prereq.: PSYC-202.*

PSYC-308 Laboratory: Research Methods in Tests and Measurements, 3 cr. Development, construction, scoring, standardization, determination of reliability and validity of simple tests in psychology. *Prereq.: PSYC-302.*

PSYC-310 Developmental Psychology, 3 cr. Longitudinal study of the development of behavior throughout the life span, including physiological factors and their bearing on the psychosocial adjustment of the individual in childhood, adolescence, adulthood, and later maturity. *Prereq.: PSYC-202.*

PSYC-311 Psychosexual Development, 3 cr. Study of the development of sex differences, from the acquisition of sex role identity in childhood through sex differences in adult personality, cognition, and role behavior. *Prereq.: PSYC-200.*

PSYC-312 Psychological Development in Women, 3 cr. Psychological development and identity formation in women with emphasis on personality, psychosexual, and cognitive development. *Prereq.: PSYC-100 or 200.*

PSYC-315 Advanced Child Psychology, 3 cr. Growth of the child's emotional life and personality and basic development principles. Psychological difficulties in children will be studied insofar as this study sheds light on the course of normal development. *Prereq.: PSYC-215 or 310.*

PSYC-316 Laboratory, Research Methods in Psychology: Child Development, 3 cr. Examination and application of research techniques and methods used in child and developmental psychology. Students will collect, analyze, interpret, and present research data. *Prereq.: PSYC 302 (and PSYC-215 or PSYC-310).*

PSYC-318 Psychopathology of Childhood, 3 cr. Study of the dynamics of pre-adolescent neurotic disturbances. *Prereq.: PSYC-215 or 310.*

PSYC-319 Child Development in Cross-Cultural Perspective, 3 cr. Comparative studies of child rearing practices in varying cultural and sub-cultural milieus, including those in the United States; effects of such differences on subsequent adult personality in the cultures under consideration; problems of "normal" and "abnormal" behavior. *Prereq.: PSYC-215 or 310.*

PSYC-320 Adolescent Psychology, 3 cr. Nature of adolescent development and adjustment: physical, intellectual, emotional, and social aspects. *Prereq.: PSYC-100 or 200.*

PSYC-322 Emotional Disturbances of Adolescence, 3 cr. Study of the psychological dynamics and of the problems and conflicts which the adolescent may experience during this distinct phase of his/her life. *Prereq.: PSYC-320 or 310.*

PSYC-324 Geropsychology, 3 cr. This course will introduce students to the study of aging and the profession of gerontology. The course focuses on the physical, psychological, social and cognitive aspects of aging from a number of disciplinary perspectives. Micro (individual's process of aging) as well as macro (societal) issues of an aging population will be examined. The course will also introduce students to a number of controversies and debates in gerontology, many of which have implications for social policy. *Prereq.: PSYC-100 or PSYC-110 or PSYC 200.*

PSYC-325 Psychosocial Development and Aging, 3 cr. Exploration of behavioral development and of the influence of social and environmental factors on the psychosocial development throughout the life span. *Prereq.: PSYC-AGED-321 or PSYC-310.*

PSYC-327 Counseling and Psychotherapy for the Aging, 3 cr. Principles of therapeutic intervention for persons 50 years and older using strategies appropriate for this age group. *Prereq.:* PSYC-AGED-321 or PSYC-345.

PSYC-328 Seminar in Aging, 3 cr. Integrated and critical evaluation of problems and issues related to aging; assessment of research and of its application to the establishment of programs for the aged. *Prereq.:* PSYC-AGED-321.

PSYC-330 Psychology of Personality, 3 cr. Contemporary theories of personality development and personality dynamics, and definitions of the healthy personality. *Prereq.:* PSYC-202.

PSYC-331 Laboratory, Research Methods in Psychology: Personality, 3 cr. Research methods used in the study of "personality." Collection, analysis and interpretation of research data, and reporting results. *Prereq.:* PSYC 302 and 330 or 340.

PSYC-333 Humanistic Theories of Personality, 3 cr. Approaches of the third force psychologists to the study of personality development. *Prereq.:* PSYC-202.

PSYC-334 Psychoanalytic Theories of Personality, 3 cr. Systematic comparison of the central concepts of Freudian and neo-Freudian analytic psychology, with special emphasis upon the contributions of ego psychology, implications for learning and for normal and abnormal personality development.

Prereq.: PSYC-202.

PSYC-340 Abnormal Psychology, 3 cr. Overview of psychopathology; similarities and differences between "normal" and "abnormal groups." *Prereq.:* PSYC-202.

PSYC-341 Laboratory, Research Methods in Psychology: Clinical, 3 cr. Application of the techniques learned in the Statistics and Research Methods courses to actual research topics in the clinical field of psychology. The format is one hour of lecture and four hours of laboratory, in which students actually collect and analyze data. Fulfills department major lab requirement. *Prereq.:* PSYC-302 (and 330 or 340).

PSYC-345 Theory and Methods of Individual Therapy, 3 cr. Overview of various approaches to psychotherapy. *Prereq.:* PSYC-330 or 340.

PSYC-346 Introduction to Group Psychotherapy, 3 cr. Study and application of the underlying principles of several approaches to group processes; e.g., T-groups, growth (Rogerian) groups, rational-emotive groups, Gestalt groups, T.A. groups. *Prereq.:* PSYC-330 or 340.

PSYC-350 Physiological Psychology, 3 cr. Lectures on physiological research techniques; ablation, lesioning, electrophysiology, and neurochemistry. The neuron, synaptic, electrical and chemical events, sensory physiology, psychopharmacology, memory mechanisms, emotions, and vegetative functions are covered. *Prereq.:* PSYC-202.

PSYC-351 Physiological Psychology Lab, 3 cr. Techniques employed in the investigation of brain functions including surgical and testing procedures such as ablation, electrolytic lesions, implants of permanent electrodes, operant conditioning techniques, pharmacological experiments and demonstrations.

Prereq.: PSYC-302 and 350, or 12 hours of biology and consent of instructor.

PSYC-352 Introduction to Neuropsychopharmacology, 3 cr. Discussion of neuronal synapse and neurotransmitter action, and of the physiology and basic chemistry of the better known putative neurotransmitters; overview of the major and minor tranquilizers, the antidepressants, and the hallucinogens; examination of the better known relationships between neurochemistry, psychopharmacology, and behavior.

Prereq.: PSYC-350.

PSYC-353 Physiological Bases of Mental Disorders, 3 cr. Physiological and genetic aspects of mental disorders: major theories and current research models with emphasis on current literature and primary sources. *Prereq.:* PSYC-202.

PSYC-354 Seminar in Drug Abuse, 3 cr. Lectures, discussion, and selected readings concerning the psychological, sociological, and physiological aspects of drug abuse.

Prereq.: PSYC-100 or PSYC-200 or Intro Biol.

PSYC-360 Social Psychology, 3 cr. Basic principles and research techniques in social perception, attitude formation, group dynamics, interpersonal attraction, and social influence.

Prereq.: PSYC-202.

PSYC-361 Laboratory, Research Methods in Psychology: Social Psychology, 3 cr. Application of techniques learned in Statistics and Research Methods to actual research topics in social psychology. Through lecture and laboratory, in which students actually collect and analyze data. *Prereq.:* PSYC 302 and 360.

PSYC-362 Introduction to Group Dynamics 3 cr. Study of the structures and interpersonal dynamics of small groups.

Prereq.: PSYC-100 or PSYC-200.

PSYC-363 Advanced Group Dynamics, 3 cr. Advanced study of the various methods and theories of group interaction and their application. *Prereq.:* PSYC-362.

PSYC-365 Industrial Psychology, 3 cr. An introductory survey of the diverse field of industrial psychology. Personnel selection, business organizations, marketing and advertising, human factors and human engineering, worker-supervisor relations, and executive behavior. *Prereq.:* PSYC-100 or PSYC-200.

PSYC-370 Theories of Learning, 3 cr. Psychological study of the processes of learning, problem-solving, and memory. Major historical theories of learning; demonstration of some basic research techniques. *Prereq.:* PSYC-202.

PSYC-372 Operant Conditioning Lab, 3 cr. Introduction to quantitative and experimental techniques in psychology as a natural science. Course work will cover experimental design, data collection and interpretation centered around operant conditioning techniques with the rat. *Prereq.:* PSYC-302.

PSYC-373 Human Perception, 3 cr. Study of how our perceiving and performing systems convert information from the environment and the self to action in everyday life. *Prereq.:* PSYC-202.

PSYC-374 Laboratory, Research Methods in Psychology: Perception, 3 cr. Research techniques and experiments in perception, cognition and learning. *Prereq.:* PSYC-302 and 373.

PSYC-375 Cognitive Psychology, 3 cr. This course is an introduction to cognitive psychology, the study of human thought, information processing, and consciousness. It covers the following topics normally associated with the study of cognition: pattern recognition, learning and memory, language, reasoning, decision making, cognitive neuropsychology, and artificial intelligence. *Prereq.:* PSYC 202.

PSYC-381 Independent Study in Psychology, 1 cr. Special study projects in psychology specifically and individually contracted with the instructor. Arrangements should be made in the term prior to registration. *Prereq.:* PSYC-202 and consent of instructor.

PSYC-382 Independent Study in Psychology, 2 cr. (See PSYC-381 for description.) *Prereq.:* PSYC-202 and consent of instructor.

PSYC-383 Independent Study in Psychology, 3 cr. (See PSYC-381 for description.) *Prereq.:* PSYC-202 and consent of instructor.

PSYC-391 Field Experience in Psychology I, 3 cr. Experiential learning in psychology-related settings (such as psychiatric hospitals and schools) integrating both academic work and on-the-job experience. Arrangements should be made in the term prior to registration. *Prereq.:* 9 credit hours of psychology, and consent of instructor.

PSYC-392 Field Experience in Psychology II, 3 cr. Advanced and specialized work. (See PSYC-391 for description). Arrangements should be made in the term prior to registration. *Prereq.:* PSYC-391.

PSYC-393 Seminar in the Teaching of Psychology, 3 cr. Introduces students to the theories and methods of post-secondary teaching as relevant to the field of psychology. Students participate with faculty in active teaching activities of an undergraduate psychology course. *Prereq.:* declared psychology major and consent of instructor.

PSYC-395 History of Psychology, 3 cr. Psychology as a science from Wundt to present day. The course examines systems and describes and evaluates theories. *Prereq.:* PSYC-202.

PSYC-396 Senior Seminar in Psychology, 3 cr. Research and preparation of papers; provides for individual work by the student, and guidance through criticism by fellow students and faculty. *Prereq.:* PSYC-302.

Gerontology

PSYC-AGED-401 Gerontology: An Overview, 3 cr. Presents an overview of the field of gerontology. It provides an introduction to the demographic, economic, and social implications of the growth in the population of older individuals. *Prereq.:* graduate standing.

PSYC-AGED-402 Developmental Processes in Later Life, 3 cr. Examines research on how individuals age psychologically throughout adulthood and into advanced old age. *Prereq.:* PSYC-AGED 401 or consent of instructor.

PSYC-AGED-406 Aging and the Family, 3 cr. Acquaints students with the research on the inter-generational roles of the nuclear, extended and non-traditional forms of 20th century families in providing physical, emotional, and financial support to members over the life-span in a society that has increasing

numbers of three, four, and five generation families. *Prereq.:* PSYC-AGED 401 or consent of instructor.

PSYC-AGED-408 Research Methods, 3 cr. This course introduces research methods and methodological problems encountered in theoretical and applied studies in the field of gerontology and provides guidance in preparing research or program proposals. *Prereq.:* PSYC-AGED 402.

PSYC-AGED-412 Aging and Psychopathology, 3 cr. Enables students to differentiate between the psychological characteristics of normal aging in later life and those associated with psychopathology. Differences between chronic mental illness and late onset psychopathology are clarified. Questions of assessment and treatment for these populations are included. *Prereq.:* PSYC-AGED 401 or consent of instructor.

PSYC-AGED-414 Psychotherapy of the Elderly, 3 cr. This course assists students interested in direct service to develop an awareness of the range of psycho-therapeutic modalities that are effective with elderly clients. *Prereq.:* PSYC AGED 401 or consent of instructor.

PSYC-AGED-415 Practicum in Gerontology, 3 cr. A supervised practicum, typically 120 clock hours, is required of all students who lack formal experience in working directly with the elderly. It is also recommended for students who have previously worked with this population and whose career objectives make a different type of experience in another setting desirable. *Prereq.:* PSYC-AGED 402 and consent of the gerontology Field Experience Coordinator.

PSYC-AGED-416 Internship in Gerontology, 3 cr. This 120 clock hour supervised field work course is required of all students. Those with no prior experience in gerontology must complete PSYC-AGED 415 before registering for this course. The internship site varies according to the interests of the student. The faculty will determine the suitability of the site. *Prereq.:* PSYC-AGED 402 and consent of the gerontology Field Experience Coordinator.

PSYC-AGED-418 Public Policy and Aging, 3 cr. This course will examine major health care, social, and economic policies that affect the elderly. Students will learn to assess and understand the differential impact on life style and quality of life experienced in old age by individuals of various socio-economic classes. *Prereq.:* PSYC-AGED 401.

PSYC-AGED-420 Seminar in Proposal Writing, 3 cr. This seminar covers the whole process of proposal writing as it applies to either grant or thesis proposals. Students are expected to produce an acceptable proposal as part of the course. *Prereq.:* PSYC-AGED 408.

PSYC-AGED-422 Thesis Seminar, 3 cr. This course involves guidance of students writing a master's thesis as part of the requirements for the M.A. in Gerontology. *Prereq.:* PSYC-AGED 420

PSYC-AGED-424 Independent Study in Gerontology, 3 cr. This course provides an opportunity to specialize in an area of interest not sufficiently covered in either the required or elective courses offered. The plan for independent study (the specific topic, list of possible readings, and plan for a final paper) must be approved in writing by the sponsoring faculty member in the term prior to registration. *Prereq.:* PSYC AGED 402 and consent of instructor.

PSYC-AGED-426 Values, Decision-Making, and the Elderly, 3 cr. This course sensitizes students to their own and others' social and personal values pertaining to aging and the aged. It covers the ethical issues and dilemmas that arise for the elderly, their advocates, and caretakers when age is a primary factor in making difficult decisions. *Prereq.: PSYC-AGED 401 or consent of instructor.*

PSYC-AGED-428 Aging and Cultural Diversity in the United States, 3 cr. This course familiarizes students with the literature and research-in-progress on variations in the process of aging, attitudes toward aging and the aged, and assistance provided to the aged among various major ethnic groups found in the United States. *Prereq.: PSYC-AGED 401 or consent of instructor.*

PSYC-AGED-432 Meanings of Old Age, 3 cr. This course explores the range of external perceptions and personal experiences of old age and old people by comparing what research scholars say about aging with the writings of older people themselves. Societal ageism and personal beliefs about aging, old age and old people are considered. *Prereq.: PSYC-AGED 401 or consent of instructor.*

PSYC-AGED-434 Aging Services Network, 3 cr. This course examines the wide range of services and programs fostered by the Older Americans Act and referred to as the "aging network." Interviews with service providers and on-site observations give students an awareness of the issues involved in designing and implementing programs for older people. *Prereq.: PSYC-AGED 401 or consent of instructor.*

PSYC-AGED-455 Advanced Topics in Aging, 3 cr. These advanced seminars are offered on topics of concern in the field of gerontology. *Prereq.: PSYC-AGED 401 or consent of instructor.*

PSYC-100 Survey of Psychology	3 cr.
PSYC-110 Life Span Development	3 cr.
SOC-100 Introduction to Sociology	3 cr.
Required Courses in Social Work:	48* cr.
SWK-200 Introduction to Social Work	3 cr.
SWK-303 Human Behavior and the Social Environment I	3 cr.
SWK-207 Social Welfare Policy I	3 cr.
SWK-304 Social Work Practice I	3 cr.
SWK-305 Social Work Practice II	3 cr.
SWK-306 Human Behavior and the Social Environment II	3 cr.
SWK-309 Research and Quantitative Applications in Social Work	3 cr.
SWK-310 Research Practicum I	3 cr.
SWK-311 Research Practicum II	3 cr.
SWK-353 Field Seminar I	3 cr.
SWK-354 Field Seminar II	3 cr.
SWK-355 Field Practicum I	3 cr.
SWK-356 Field Practicum II	3 cr.
SWK-357 Social Welfare Policy II	3 cr.
Electives in Social Work	6 cr.
Total	69* cr.

Liberal Arts Requirements are prerequisite to the **required** foundation curricular courses for the social work major.

Students interested in the major in social work must submit an application for admissions to the major and be approved by the program's Admissions Committee. Application forms are available in the program office.

Students should seek advisement from a program advisor right away to assure compliance with prerequisites and required sequencing of courses.

Minor in Social Work

Required Courses:

SWK-200 Introduction to Social Work	3 cr.
SWK-207 Social Welfare Policy I	3 cr.
Electives: select four courses from the following	12 cr.
Total	18 cr.

- SWK-202 Community Analysis, 3 cr.
- SWK-203 Analysis of Cross Cultural Interaction, 3 cr.
- SWK-208 Human Sexuality and Social Work, 3 cr.
- SWK-250 Issues in Social Service Delivery, 3 cr.
- SWK-307 Child/Adolescent Services, 3 cr.
- SWK-312 Women and Social Work, 3 cr.
- SWK-314 Social Work Advocacy, 3 cr.

COURSE OFFERINGS

SWK-200 Introduction to Social Work, 3 cr. Overview of the social work field, its philosophical basis, historical development and future growth; introduction to the concept of generalist practice.

SOCIAL WORK

- Mikal Rasheed, Ph.D., Associate Professor, Chair
- Najma Adam, Pf.D., Assistant Professor
- Job Ngwe, Ph.D., Assistant Professor
- Jane Peller, M.A., Professor
- Cathy S. Stanley, M.S.W., Ph. Ed., Associate Professor

The Social Work program offers a Bachelors of Arts Degree in Social Work (BASW) accredited by the Council on Social Work Education. The curriculum is designed to prepare beginning level generalist social work practitioners who are committed to the values and ethics of the profession and the provision of quality services to diverse clients. Coursework and field experiences expose students to a variety of social work settings and clients who represent diverse socio-cultural backgrounds.

UNDERGRADUATE PROGRAMS

Major in Social Work for the Bachelor of Arts Degree

Liberal Arts Requirements:	21 cr.
ANTH-212 Cultural Anthropology	3 cr.
BIOL-100 Introduction to Biology	3 cr.
ECON-215 Principles of Macroeconomics	3 cr.
PSCI-216 American National Government	3 cr.

SWK-202 Community Analysis, 3 cr. Methods of conducting research on local communities and racial/ethnic groups in the Chicago Metropolitan area; exposure to gathering, interpreting, and presenting information about a local community. *Prereq.:* SWK-200.

SWK-203 Analysis of Cross-Cultural Interaction, 3 cr. This is a pre-practice elective. Development of sensitivity when interacting with persons of diverse racial/ethnic backgrounds. Role of culture in human behavior and how one's culture interfaces with other cultures.

SWK-207 Social Welfare Policy I, 3 cr. Covers content on the history of social welfare, current social welfare programs and the societal values that underlie these provisions.

SWK-208 Human Sexuality and Social Work, 3 cr. This is a pre-practice elective course. Knowledge of sexuality as it is expressed in a variety of lifestyles and the application of social work values and ethics when working with sensitive issues in sexuality.

SWK-250 Issues in Social Service Delivery, 3 cr. This is a pre-practice elective course. Covers major problems and issues in the field of social work. Topics vary.

SWK-303 Human Behavior & the Social Environment I, 3 cr. A first course of a two-part sequence designed to develop understanding about human behavior and the social environment intended to enhance students' critical thinking skills about how people understand themselves, the creation of meaning in their lives, how they change, & how one's perspective influences our understanding of others. The generalist practice model, based on ecological systems, strengths perspective, biopsychosocial framework & post-modernist philosophy are the basis for understanding the basic principles of this course. *Prereq:* Liberal Arts requirements, SWK-200, concurrent with SWK 304. Majors only.

SWK-304 Social Work Practice I, 3 cr. A first course in a two-part sequence designed to provide the student with a foundation in generalist social work practice i.e. knowledge, values and skills. The central premise is that generalist practice is about client empowerment through collaborative work with clients. This involves empowerment of clients through preparation for first contact, learning how to dialogue across client systems, learning how to define directions with the client and collaborating about the client needs and resources. Bridging knowledge from HUBSE I is done through practical application. *Prereq:* Liberal Arts requirements, SWK-207 & concurrent with SWK-303.

SWK-305 Social Work Practice II, 3 cr. The second course of a two-semester practice foundation. Course content will focus on the social work processes of goal setting, application of models for action, and integrating gains in the generalist method of practice. The social worker's role and activities will be examined in light of the values and ethics of the profession, which includes conducting oneself as an ethnically sensitive worker with diverse client systems in the urban environment. *Prereq:* SWK-304; taken concurrently with SWK-306.

SWK-306 Human Behavior and the Social Environment II, 3 cr. This is the second course in the Human Behavior and Social Environment foundation area. It is designed to examine the dynamic interplay between the individual's development and the functioning of groups, families, organizations and communities, and builds on the objectives of SWK-303 HUBSE I. Each unit integrates the student's knowledge about the generalist model, the concepts & assumptions within, understanding of the concept of self, the value of honoring diversity and the commitment to social and economic justice. *Prereq:* SWK-303, taken concurrently with SWK-305.

SWK-307 Child/Adolescent Services, 3 cr. This is a pre-practice elective course. Child/Adolescent Services is an elective course focusing on children's issues in social work practice. The course will cover aspects of services and trends in child welfare. The course will include lectures, class discussions, guest speakers and in-class exercises to help the students understand the traditional child welfare services, as well as a wide range of programs to support families and children. Throughout the course students will be exposed to various perspectives, theories, and research on the influence of ethnicity, race, age, and class which combine to shape the policies and practices, both private and public.

SWK-309 Research and Quantitative Applications in Social Work, 3 cr. Content on basic and applied research concepts and methodology; assessment of empirical research published in professional social work literature; interpretation of statistical analyses. *Prereq.:* Open to social work majors only.

SWK-310 Research Practicum I, 3 cr. This course is designed to prepare students to conduct qualitative research in their field practicum agency. At the completion of the course each student will begin a detailed proposal for research that will be completed in the subsequent term. The course will cover the various approaches to qualitative research e.g. ethnographic theory, narrative and the case study. Special attention will be given to problem formulation, literature review, and data collection techniques. *Prereq:* SWK-309, taken concurrently with SWK-353.

SWK-311 Research Practicum II, 3 cr. The focus of this course is the continuation of the research proposal begun in SWK-310 Research Seminar I, which includes procedures, research design, data analysis, interpreting and coding data and evaluation. Attention will be given to ethical considerations and considerations of race, gender, culture and sexual orientation. *Prereq:* SWK-310; taken concurrently with SWK-356.

SWK-312 Women and Social Work, 3 cr. This is a pre-practice elective course. Women and Social Work is an elective course focusing on women's issues in social work, both for women as social work practitioners and for women as clients/participants in social service delivery systems. The course will cover aspects of feminist thought, non-sexist therapy, feminist therapy, sexist biases in research, feminist research in social work and social welfare policies and practice which have an impact on women.

SWK-314 Social Work Advocacy, 3 cr. This is a pre-practice elective course. This course is designed to enhance students' understanding of social work advocacy. It is an elective course and is geared to develop an awareness about social work advocacy and its role in: organizational change, political campaigns and lobbying.

SWK-325 Elective Practicum in Social Work, 3 cr. This is a post-practice elective course. Internship in social service agency in which students are exposed to various experiences. Open to SWK majors only.

SWK-327 Social Work Practice with Families, 3 cr. This is a post-practice elective course. Overview of the field of family therapy; various approaches, differences in their underlying theoretical assumptions and their application in social work family assessments and interventions. *Prereq.: SWK-304.*

SWK-328 Social Work With Groups. This is a post-practice elective course, majors only. The purpose of this course is to emphasize concepts, methods and issues in social group work practice beyond what has been learned in SWK Practice I & II. The course content will use Garland, Jones and Kolodny's five-stage developmental model of group work. The focus will be on group work theory and practice as it applies to different practice settings and different populations. Emphasis will be placed on the social worker's developing self-awareness, ethical competence and practice skills in working with groups. *Prereq.: SWK-304.*

SWK-329 Administration and Planning in Social Work This is a post-practice elective course, majors only. It is designed to expose the beginning level practitioner to administrative and planning functions with emphasis on how these impact the direct service practitioner. *Prereq: SWK-305.*

SWK-330 Social Work Practice in Community Settings, 3 cr. This is a post-practice elective course. Structure and functions of communities and models of community organizing; development of community organizing skills. *Prereq.: SWK-305.*

SWK-353 Field Seminar I, 3 cr. Taken concurrently with SWK-355. Integration of knowledge, values and skills with experience in the field practicum. *Prereq.: SWK-305.*

SWK-354 Field Seminar II, 3 cr. Taken concurrently with SWK-356. Continuation of SWK-353. *Prereq.: SWK-353, SWK-310 and SWK-355.*

SWK-355 Field Practicum I, 3 cr. Taken concurrently with SWK-353. Beginning field experience; students are placed in a social work agency providing the opportunity to develop, test and reinforce social work knowledge, values and skills. *Prereq.: SWK-305.*

SWK-356 Field Practicum II, 3 cr. Taken concurrently with SWK-354. Continuation of SWK-355.

SWK-357 Social Welfare Policy II, 3 cr. Critical analysis of social welfare policies and programs; focus on the impact of policy on direct practice. *Prereq.: SWK-207. For majors only.*

SOCIOLOGY

Wamucii Njogu, Ph.D., Associate Professor, Chair
 Rohan deSilva, Ph.D., Assistant Professor
 Ronald Glick, D.Crim., Professor
 Christina Gomez, Ph.D., Assistant Professor
 Hoda Mahmoudi, Ph.D., Associate Professor
 Nancy Matthews, Ph.D., Associate Professor
 BarBara M. Scott, Ph.D., Professor
 Susan Stall, Ph.D., Associate Professor
 Brett C. Stockdill, Ph.D., Assistant Professor
 Martha Thompson, Ph.D., Professor

The Sociology program offers courses leading to a Bachelor of Arts degree in sociology.

What is the relationship between your personal life and the social world around you? Sociology attempts to answer this question. Sociology is the systematic study of individuals and the societies in which they live, their interrelatedness, patterns, and arrangements and processes of individual and societal development and change. Sociology provides us with a unique insight into taken-for-granted events that occur in our personal lives and large-scale cultural and societal processes that make up the worlds in which humans live. The guiding premise of sociology is that our personal everyday experiences affect and are affected by the larger society in which we live.

A major in sociology can provide a useful orientation for students who plan to attend graduate school, seek careers in community-based organizations or in such fields as education, criminal justice, urban planning, community organizing, social welfare, or research in government and private organizations.

NOTE: The following rules apply to the major and minor in Sociology: Transfer courses must be approved by the department before being applied to the major or minor. For transfer students majoring in Sociology, at least 21 hours must be taken at Northeastern and for students minoring in Sociology, at least 9 hours must be taken at Northeastern.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

UNDERGRADUATE PROGRAMS

Major in Sociology for the Bachelor of Arts Degree

All Sociology majors must complete five **core courses** (15 credit hours), choose one of the three **special area major tracks**, depending on the student's academic and career interests and complete two courses (6 credit hours) in the track, and complete six courses (18 credit hours) of **electives** for a total of 39 credit hours.

Core Courses Required for all Majors:

SOC-100 Introduction to Sociology 3 cr.
 SOC-335 Sociological Theory 3 cr.
 SOC-337 Methods of Sociological Inquiry 3 cr.

SOC-339 Statistical Applications in Sociology	3 cr.
SOC-346 Social Stratification	3 cr.

**Additional Courses Required
for Graduate School Track**

SOC-336 Contemporary Theory	3 cr.
SOC-351 Senior Seminar	3 cr.
Electives in Sociology	18 cr.

Total Hours for Major in Sociology 39 cr.

**Additional Courses Required
for Community Development and Social Action Track**

SOC-342 Internship in Sociology	3 cr.
SOC-343 Sociological Practice and Social Action Seminar	3 cr.
Electives in Sociology	18 cr.

Total Hours for Major in Sociology 39 cr.

**Additional Courses Required
for General Sociology Track**

SOC-342 Internship in Sociology or	
SOC-351 Senior Seminar	3 cr.
Electives in Sociology	21 cr.

Total Hours for Major in Sociology 39 cr.

Minor in Sociology

All Sociology minors must complete two **core courses** (6 credit hours), one **specialized area course** (3 credit hours), and three **electives** (9 credit hours) for a total of 18 credit hours.

Core Courses Required of all Minors:

SOC-100 Introduction to Sociology	3 cr.
SOC-230 Sociological Analysis	3 cr.

Specialized Area Courses (choose one):

SOC-306 American Women: The Changing Image or	
SOC-314 Urban Sociology or	
SOC-316 Race and Ethnic Relations	3 cr.
Electives in Sociology	9 cr.

Total Hours for Minor in Sociology 18 cr.

Students majoring in Elementary Education and Early Childhood Education who have selected Sociology as a minor **must** complete a minimum of **9 hours** of the minor in courses at the 300-level to meet graduation and certification requirements.

COURSE OFFERINGS

SOC-100 Introduction to Sociology, 3 cr. Fundamental concepts involved in understanding human societies. Socialization, culture, social interaction, social institutions, social stratification, and social change are discussed.

SOC-105 Women, Men, and Social Change, 3 cr. This course will examine the roots of gender expectations and gender divisions; and historical and cultural variations in how gender has and is perceived. The course will raise questions about the consequences of the social organization of gender relations and the possibilities for change in the positions of men and women in society.

SOC-204 Sociology of Small Groups, 3 cr. A study of the individual and group relationships in society in terms of the various types of social collectives; primary and secondary groups, crowds and publics, collective behavior and social movements with emphasis on the symbolic nature of social interaction.

SOC-205 Contemporary Social Issues, 3 cr. Analysis and interpretation of major contemporary social issues, such as war and peace, poverty, racism, sexism, power structures; critical evaluation of present and suggested programs to meet current problems.

SOC-206 Sociology of Drug Abuse, 3 cr. Review of literature and current research on drug abuse. Examination of leading social explanations of drug abuse and consideration of drug treatment and prevention approaches.

SOC-214 Sociology of Marriage and the Family, 3 cr. The major issues involved in the criticisms of family systems with a view to predicting how current forms are likely to mesh with changing trends to form marriage and family patterns in the future. Areas of study include family history, changing demographic patterns, family structures, gender roles, sexuality, reproductive technology, marital interaction and power, marital dissolution, and reconstituted families.

SOC-221 Sociology of Work, 3 cr. Examines work as both a social and economic phenomenon; focuses on the role of work in people's lives and on the nature of occupational roles as an element of social structure. Areas of study include the impact of technology on the meaning and organization of work, the global economy, reward structures, unemployment, and the changing composition of the labor force of the future. *Prereq.: SOC-100.*

SOC-230 Sociological Analysis, 3 cr. An introduction to when and how to do sociological analysis of popular and scholarly opinion, with a focus on developing and/or improving communication and critical thinking skills. The course integrates sociological theory and methods and requires students to analyze and critique theories, opinions, and research found in a variety of popular and scholarly materials using a sociological perspective.

SOC-250 Sociology of Deviance, 3 cr. Overview of the sociological works, both past and present, in the area of social deviance. In addition, traditional and alternative definitions and explanations of deviant behavior will be explored.

SOC-270 Sociology of the Latina, 3 cr. Study of the role played by the Latina, and the social, economic and political issues that affect her life. The relationship between class and gender, and the impact of modernization on women's roles and status will also be examined.

SOC-302 Sociology of Aging, 3 cr. The aging process, examined from both an individual and societal perspective; problems, potentials, and realities of aging. Topics of study include the nature and quality of relations among members of different generations, age norms, age constraints, and adult socialization as well as historical and cross-cultural comparisons of aging. *Prereq.: SOC-100.*

SOC-306 American Women: The Changing Image, 3 cr. Analyzes women's varying roles, statuses and life opportunities; covers the feminist movement, past and present with special emphasis on the intersection of gender, race, and social class.

SOC-308 Sociology of the Syndicate, 3 cr. A systematic analysis of organized crime covering its history, present structure and activities, and its relationship to the U.S. ruling class and law enforcement agencies.

SOC-309 Sociology of Racism, 3 cr. Survey of the sociological and historical development of the theories of race and racism and the impact these theories have had on the implementation of social policy. Black experience in America is highlighted and special attention is given to institutional expressions of racism in the Western world. *Prereq.: SOC-100.*

SOC-310 Revolution and Conflict, 3 cr. A systematic analysis of selected social and political revolutions and/or revolutionary movements in the United States and globally. *Prereq.: SOC-100 or consent of instructor.*

SOC-312 Sociology of Health and Illness, 3 cr. Survey of theory and research concerning social and cultural factors in determining health and illness and description of health care organization and practice. Societal responses to health care problems.

SOC-313 Population and Demography, 3 cr. Population characteristics and population dynamics in a variety of cultural settings; political, economic, and sociological implications of population trends, resources and approaches in demographic analysis. *Prereq.: SOC-100 or consent of instructor.*

SOC-314 Urban Sociology, 3 cr. Population characteristics, social structure, social change, and social policy associated with urbanization and community development. Focus on problems of the inner city. *Prereq.: SOC-100.*

SOC-316 Race and Ethnic Relations, 3 cr. A cross-cultural study of the patterns of interaction between racial and ethnic groups, analysis of the sources of prejudice and discrimination; examination of the relationships between race and ethnic relations and patterns of stratification. *Prereq.: SOC-100.*

SOC-317 Sociology of Religion, 3 cr. Study of the social aspects of religious beliefs, practices and participation. The Church as a social institution and its relationship to social class, social control. Religion as a form of expressive behavior. The function of religion for the individual and for different social groups. *Prereq.: SOC-100 or consent of instructor.*

SOC-319 Topics in Race and Ethnicity, 3 cr. Exploration at an advanced level of selected issues in race and ethnicity. Consult the Schedule of Classes for specific topics. Topics will vary.

SOC-320 Topics in Sex and Gender, 3 cr. Exploration at an advanced level of current issues and concerns in the sociology of sex and gender. Consult the Schedule of Classes for specific topics. Topics will vary.

SOC-328 Extreme Right Groups, 3 cr. Various groups in the U.S. have traditionally used racism, sexism, and anti-semitism to justify political and physical attacks against people of color, feminists, and Jewish people. More recently, lesbians,

gays, and people with AIDS have been the targets of their attacks. This course examines the Klan/Nazi/neo-Nazi movements in the U.S. and Western Europe, and focuses on key groups for intensive study.

SOC-329 Sociology of Violence, 3 cr. Cross cultural study and focus on social and psychological explanations of violence in American society.

SOC-331 Military Sociology, 3 cr. Focus on the question of U.S. military response to problems in Third World countries. In non-technical language, the issues of political-military responses to insurgencies and revolutions are discussed within the framework of the new military doctrine of low intensity warfare and mid-intensity warfare.

SOC-332 Sociology of Education, 3 cr. An analysis and critique of education as a vast and complex social institution. The course will include a focus on the major features of the U.S. educational bureaucracy, its functions in creating and transmitting culture and maintaining social control as well as a systematic analysis of diversity, cross-cultural, local, national and global trends in education. *Prereq.: SOC-100.*

SOC-335 Sociological Theory, 3 cr. History of social thought, the various interpretations of societal patterns; the theoretical orientations of classical sociological figures including Marx, Durkheim, and Weber and more recent orientations including conflict theory, symbolic interaction, and structural functionalism. *Prereq.: SOC-100 or consent of instructor.*

SOC-336 Contemporary Sociological Theory, 3 cr. A survey of contemporary sociological theories and paradigms, with a focus on writings that have most influenced the development of contemporary sociological theory and the way sociologists currently approach and analyze their subject matter. The course will explore theories, perspectives, ideas, and works from voices generally unheard in discussions of formal sociological theory - namely, the voices of people of color and women. *Prereq.: SOC-100; SOC-335; SOC 337.*

SOC-337 Methods of Sociological Inquiry, 3 cr. Emphasis on increasing students' abilities to communicate their understanding of social science research. Focus on learning social science research vocabulary, developing an understanding of issues in the philosophy of the social sciences, learning steps and procedures in sociological research, and using writing skills relevant to social science research. *Prereq.: SOC-100 or consent of instructor.*

SOC-338 Topics in Social Policy and Social Change, 3 cr. Exploration at an advanced level of a social issue and the social policies that have been developed to deal with it. Consult the Schedule of Classes for specific topics. Topics will vary. *Prereq.: SOC-100 or consent of instructor.*

SOC-339 Statistical Applications in Sociology, 3 cr. An introduction to descriptive and inferential statistics which are the basic statistical methods used in Sociology and other Social Science disciplines. Students will also learn how to use a statistical package (SPSS for Windows) to analyze and interpret survey data. *Prereq.: SOC-100 and MATH-102.*

SOC-340 Sociology of Sexuality, 3 cr. Critical discussion and reading of current research and literature on human sexuality; the continuous psycho-sexual development of children, adolescents and adults; heterosexuality, homosexuality and bisexuality; the use of sex by the media; pornography; prostitution; sex and the law; institutional sexuality; population control; marital sex; the effects of class background on sexual practices.

SOC-341 Independent Study in Sociology, 3 cr. Research study in an area of special interest to the student involving research methodology and field studies. *Prereq.:* consent of instructor.

SOC-342 Internship in Sociology, 3 cr. The internship in sociology explores relationships among individuals, internal organizational departments, and organizations within the larger social context. The internship includes a work experience that is designed to enhance the understanding and use of sociological theories and concepts. *Prereq.:* SOC-100; SOC-335; SOC-337.

SOC-343 Sociological Practice Seminar, 3 cr. This seminar provides students with an opportunity to do service and research in an applied organizational setting. It includes problem solving through involvement and social action research in one organizational setting. As an applied sociologist, the student will learn to produce information that is useful in resolving problems in community organizations, social service organizations, and grassroots social change organizations. *Prereq.:* SOC-100.

SOC-344 Sociology of Black Women, 3 cr. A systematic examination of the collective experiences of African American women, historical and contemporary; the myths versus the realities of their everyday lives, including the interrelatedness and simultaneous affect of race, class, gender, sexual orientation and age in their lived experiences.

SOC-346 Social Stratification, 3 cr. Consideration of the role of social differentiation and stratification in the formation and maintenance of social organization; focus on the nature and consequences of various systems of economic stratification and inequality.

SOC-347 Sociology of Media, 3 cr. A systematic examination of mass media as a social construction of knowledge. Major focus is on the social and historical contexts within which the media are created, the powerful influence of the various media on the socialization process, and the intersections of race, class, gender, sexual orientation and age in the images and knowledge created by mass media.

SOC-348 Beliefs and Believers, 3 cr. An introduction level telecourse that examines the nature and function of belief structures or "worldviews" as they exist in formal organized entities such as traditional religions or as political and personal ideologies and theoretical practices such as feminism and environmentalism. The course was produced in a television studio with students and a professor in a classroom setting. All of the dynamics of the classroom are captured on the videotapes, including graphics, guests, and visits to locations relevant to course materials. The course consists of 24 one-hour video tapes, a student study guide, and assigned

textbooks, readings and semester assignments. Hours are arranged by the instructor. *Prereq.:* SOC-100 or the consent of the instructor.

SOC-351 Senior Seminar in Sociology, 3 cr. Discussion, critical review and integration of students' work with current research. Preparation of a research paper with ongoing feedback from the instructor. *Prereq.:* senior standing, SOC-100, SOC-335 and SOC-337 or consent of instructor.

SOC-356 Field Methods in Sociology, 3 cr. A presentation of the various methods used in field research with emphasis on observation, intensive interviews, and archival research. Students conduct supervised field research. *Prereq.:* SOC-337.

SOC-357 Pro-Seminar in Sociology, 3 cr. Exploration at an advanced level of selected issues in sociology. Course topics vary and are generated by student demand, program need or faculty expertise. Consult the Schedule of Classes for specific topics. Topics will vary. *Prereq.:* SOC-100 or consent of instructor.

SOC-358 Youth and Youth Culture, 3 cr. An analysis of youth and youth culture including the historical context of adolescence, sociopolitical issues confronting youth, and youth culture as a form of social and political resistance. Each topic will be explored through detailed analyses of relevant literature, discussions with professionals who work with youth, and student research projects. *Prereq.:* SOC-100.

SOC-360 Sociology of Occupations and Professions, 3 cr. Exploration of the historical, theoretical and empirical literature on occupations and professions. Issues to be explored include the relationship between occupations and the family, education, technology and the political environment. *Prereq.:* SOC-100, SOC-221.

SOC-373 Community Action and Resistance, 3 cr. Chicago metropolitan field investigation of community conditions, local institutions and action programs, field investigations of community conditions, local institutions and action programs. Field investigations may be broad or concentrate on a particular school or community. *Prereq.:* SOC-337.

SOC-375 Government Intelligence Agencies, 3 cr. A study of the various government agencies which collect intelligence within the U.S. and in foreign countries with emphasis on the kinds of intelligence gathered and the political uses to which it is put. The work of the CIA and the FBI are critically examined.

SOC-376 Sociology of Working Women, 3 cr. An examination of the paid and unpaid work which typically falls to women in American society, the social characteristics of that work and the ways in which women are both led to choose and prevented from leaving that work. Covers current and past changes in the nature of "women's work." Investigates sex discrimination in various sectors of the labor force and current efforts to combat it.

SOC-403 Independent Study in Sociology, 3 cr. Under the direction of an instructor, a student prepares a resource bibliography, reads relevant sources, and discusses the materials. A research paper is required. *Prereq.:* graduate standing.

SOC-404 Seminar in Sociology, 3 cr. Analysis of major topic areas in sociology with special emphasis on resources and techniques for research, investigation, and problem-solving. Consult the Schedule of Classes for specific topics.

Prereq.: graduate standing.

SPEECH AND PERFORMING ARTS

Harold Hild, Ph.D., Professor, Chair
 Anna Antaramian, M.F.A., Professor
 Katrina E. Bell, Ph.D., Associate Professor
 Tim Dun, Ph.D., Assistant Professor
 Rodney Higginbotham, M.F.A., Associate Professor
 Maria Moraites, Ph.D., Professor
 Cynthia Moran, M.F.A., Assistant Professor
 Nanette Potee, Ph.D., Associate Professor
 David F. Unumb, Ph.D., Professor

The Department of Speech and Performing Arts offers courses leading to the degrees of Bachelor of Arts and Master of Arts. Speech and performing arts are inextricably linked with the fundamental process of communications. Students majoring in this field will learn to become more effective communicators while developing an appreciation of differing values and perceptions of their own lives and the world in which they live.

UNDERGRADUATE PROGRAMS

The Department of Speech and Performing Arts offers a major program of study in liberal arts, leading to a bachelor of arts degree. Students may elect to create an informal program track by selecting their elective courses in speech communications, media or theatre.

A major may be declared by obtaining the appropriate form in the department office, FA-240. At the time of declaring a major in Speech and Performing Arts, the student will be assigned an Academic Advisor from the department faculty.

Major in Speech for the Bachelor of Arts Degree

Required Courses:

SPCH-COMM-101 Foundations of Communication 3 cr.
 SPCH-COMM-202 Voice and Diction 3 cr.
 Two courses selected from the following: 2 cr.
 SPCH-MASS-208 Media Laboratory 1 cr.
 SPCH-PERF-139 Theatre Practicum 1 cr.
 SPCH-PERF-207 Interpreters Laboratory 1 cr.
 Two courses selected from the following: 6 cr.
 SPCH-COMM-201 Introduction to Semantics 3 cr.
 SPCH-COMM-215 Group Discussion 3 cr.
 SPCH-MASS-260 Basic Television Production 3 cr.
 SPCH-PERF-130 Introduction to Theatre 3 cr.
 SPCH-PERF-255 Oral Interpretation of Literature 3 cr.

Electives: (including at least 12 credit hours at the 300 level) 18 cr.
 Total 32 cr.

Minor in Speech

(18 cr. hrs.)

Required Courses:

SPCH-COMM-101 Foundations of Communication 3 cr.
 SPCH-COMM-202 Voice and Diction 3 cr.
 Two courses selected from the following: 6 cr.
 SPCH-COMM-201 Introduction to Semantics 3 cr.
 SPCH-COMM-215 Group Discussion 3 cr.
 SPCH-MASS-260 Basic Television Production 3 cr.
 SPCH-PERF-130 Introduction to Theatre 3 cr.
 SPCH-PERF-255 Oral Interpretation of Literature 3 cr.
 Electives in speech or performing arts (including 3 credit hours at the 300 level) 6 cr.
 Total 18 cr.

Minor in Mass Media

(18 cr. hrs.)

Required Courses:

A mass media minor is designed to meet the growing demand for media literacy skills. Mass media minors will gain practical and theoretical knowledge of media forms and media production. All mass media minors must complete a total of 18 credit hours, including 2 required courses (6 credits), 3 specialized area courses (9 credits), and 1 elective course (3 credits).

SPCH MASS 160 Art of Film and Video 3 cr.
 SPCH MASS 265 Mass Media and Society 3 cr.
 Choose three courses selected from the following specialized areas: 9 cr.
 SPCH MASS 260 Basic TV Production 3 cr.
 SPCH MASS 363 Documentary Film 3 cr.
 SPCH MASS 365 Contemporary Issues in Mass Media 3 cr.
 SPCH MASS 366 Creative Writing for Mass Media 3 cr.
 SPCH COMM 3061 Public Relations 3 cr.
 One elective in course in mass media: Select from any level course in mass media 3 cr.
 Total 18 cr.

Minor in Theatre

Required Courses:

SPCH PERF 103 Introduction to Theatre. 3 cr.
 Performance-oriented courses (minimum of 6 cr.) chosen from the following:
 SPCH PERF 131 Improvisation Drama
 SPCH PERF 245 Acting I
 SPCH PERF 246 Acting II
 SPCH PERF 255 Oral Interpretation of Literature
 SPCH PERF 345 Directing
 SPCH PERF 348A Children's Theatre Workshop (EI Ed)
 SPCH PERF 348B Children's Theatre Workshop (Jr. High)
 SPCH PERF 352 Interpretation of Poetry

SPCH PERF 354	Oral Interpretation of Drama (Acting III)	
SPCH PERF 357	Oral Interpretation of Shakespeare	
SPCH PERF 393	Creative Dramatics	
SPCH COMM 202	Voice & Diction	
Music 110/111/151/	Class Voice/	
152/153/154	Applied Music (maximum of 3 cr.)	
	Total	6 cr.

Production-oriented courses (a minimum of 3 cr.) chosen from the following:

SPCH PERF 139	Theatre Practicum I (1 cr.)	
SPCH PERF 207	Interpreters' Laboratory (1 cr.)	
SPCH PERF 239	Theatre Practicum II (2 cr.)	
SPCH PERF 240	Technical Production A	
SPCH PERF 241	Technical Production B	
SPCH PERF 249	Make-Up	
SPCH PERF 339	Theatre Practicum III	
SPCH PERF 349	Summer Theatre	
	Total	3 cr.

History/criticism/literature-oriented courses (a minimum of 6 cr.) chosen from the following:

SPCH PERF 331	History of Theatre 1600	
SPCH PERF 332	History of Theatre 1600-1900	
SPCH PERF 333	Contemporary Theatre	
SPCH PERF 334D	American Social Problem Plays	
SPCH PERF 334F	Naturalism & Realism	
SPCH PERF 334I	Women Playwrights	
SPCH PERF 334H	Conventions of Drama	
SPCH PERF 236	American Musical Theatre	
	Total	6 cr.
	Total	18 cr.

The Department of Speech and Performing Arts is in the process of revising the departmental major and minor. Students interested in a Speech and Performing Arts major or minor should consult with the Department Chairperson.

GRADUATE PROGRAM

Master of Arts in Speech

An in-depth study of speech research and the principles and practice of speech and the performing arts, this program is designed for teachers of speech at the secondary level, elementary school teachers, candidates for teaching positions in higher education, students interested in positions in business and industry, and as a preparation for further graduate study.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

Applicants are required to have completed 15 undergraduate credit hours in speech and/or performing art courses at an accredited institution of higher education. Students who do not meet this requirement may be admitted to the program conditionally. Such students must satisfy this requirement prior to being admitted to degree candidacy.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits will be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. Consult with your program advisor or the Graduate College for details.

30 credit hours planned in consultation with a faculty advisor. A maximum of six hours in cognate areas may be included in the program with the approval of the graduate faculty committee of the Department of Speech and Performing Arts.

Required Courses:

SPCH-COMM-401	Introduction to Graduate Study	
	in Speech	3 cr.
	One course from the following	3 cr.
SPCH-COMM-404	Communication Theory	3 cr.
SPCH-PERF-430	Dramatic Theory	3 cr.
	Electives selected from 400-level courses in	
	Speech and Performing Arts	12 cr.
	Electives selected from courses in Speech and	
	Performing Arts at either the 400	
	or for those students admitted	
	prior to Fall 1997, 300-level	12 cr.
	Total	30 cr.

Students choose either the thesis, upon approval, or the non-thesis option. Students who do not write a thesis must place in the departmental library three finished term papers researched in 400-level courses as evidence of scholarly writing ability.

Theses must meet with the approval of the appropriate graduate committee. Students should enroll in SPCH-499, Thesis Seminar: Speech (6 cr.) while they write their thesis. The course counts towards the requirement of 400-level electives. Students may enroll one time only.

All degree candidates must pass a comprehensive written examination and, at the discretion of the graduate committee, an oral examination covering their areas of specialization. Students who choose to write a thesis must pass an oral examination on topics included in their thesis.

For further information, contact the departmental advisor for graduate study.

COURSE OFFERINGS

SPCH-499 Thesis Seminar: Speech, 6 cr. Guidance of students conducting research and writing a thesis to fulfill the requirements for the Master of Arts degree in Speech and the Performing Arts. *Prereq.:* acceptance to master's degree candidacy in speech and approval of graduate advisor.

Communications

SPCH-COMM-100 Introduction to Communication, 3 cr.

The study of human communication with emphasis on how we communicate, the factors that influence the success of our communication interactions, and the areas in which communication takes place.

SPCH-COMM-101 Foundations of Communication, 3 cr.

The development of skills common to all forms of oral communication with emphasis on public speaking. Students will study organization, delivery, sources of materials, and language usage. Some attention to interviewing and interpersonal communication skills.

SPCH-COMM-201 Introduction to Semantics, 3 cr. The study of words and symbols and the way people respond to them. A pragmatic examination of the way in which language, thought, and behavior interrelate.

SPCH-COMM-202 Voice and Diction, 3 cr. Emphasis on improving voice quality, volume, projection, rate, articulation, and pronunciation.

SPCH-COMM-203 Articulation and Pronunciation, 3 cr.

An advanced diction course dealing with the precise production of oral American English in everyday and formal speech with emphasis on a high accuracy in general enunciation. *Prereq.:* SPCH-COMM-202 or consent of instructor.

SPCH-COMM-210 Public Speaking, 3 cr. Continuation of SPCH-COMM-101 with additional experiences in various types of public speaking. Students will videotape selected talks. Instruction in speech criticism. *Prereq.:* SPCH-COMM-101.

SPCH-COMM-211 Argument Theory and Practice, 3 cr.

Study of the structure of argument, facilities of reasoning, and evidence. Practice in argumentation in small group, interpersonal, and public settings. *Prereq.:* SPCH-COMM-101 or SPCH-COMM-215.

SPCH-COMM-213 Interpersonal Communication, 3 cr. Study of how humans interact through the use of verbal and non-verbal symbols. Through participation and involvement, students explore communication as a process and examine messages, meanings, feedback, non-verbal elements, attention, listening, barriers and breakdowns as they affect communication.

SPCH-COMM-214 Business and Professional Communication, 3 cr.

Development of oral communication skills necessary for students entering organizations and businesses. Small group problem-solving and information-sharing discussion techniques; listening; superior-subordinate communication; interview skills; informative briefing skills; persuasive proposal skills.

SPCH-COMM-215 Group Discussion, 3 cr. In-depth study of discussion as a tool of group problem-solving. Extensive participation in small-group experience.

SPCH-COMM-301 Experiences in Non-Verbal Communication, 3 cr.

Experiencing, analyzing, and evaluating non-verbal messages in experimental communication situations.

SPCH-COMM-306 Studies in Speech, 3 cr. Group study of a selected topic in the field of speech under the guidance of a staff member who specializes in the topic. Consult the Schedule of Classes for specific topics. *Prereq.:* consent of instructor.

SPCH-COMM-308 Independent Study in Speech, 3 cr. Individual investigation into a topic of the student's choice.

Prereq.: consent of instructor.

SPCH-COMM-310 Persuasion, 3 cr. Contemporary theories and practices of persuasion; practice in preparing and judging persuasive messages. Analyses and evaluation of persuasive messages in society from the used car lot to the presidential campaign. *Prereq.:* SPCH-COMM-101 or equivalent.

SPCH-COMM-313 Gender Differences and Communication, 3 cr.

Investigation of the effects of sex roles on communication behaviors, such as naming behavior, language acquisition, professional orientation, conflict management, self-image, dress and social roles. *Prereq.:* consent of instructor.

SPCH-COMM-314 Organizational Communication, 3 cr.

Evaluation of organizational communication climate and information flow-network analysis. Implementation of field research methodology to assess the communication practices of an organization.

SPCH-COMM-315 Group Leadership, 3 cr.

Theory and practice of the social-emotional and task-related aspects of small group leadership. Reading of standard works from the field of group dynamics. *Prereq.:* SPCH-COMM-215.

SPCH-COMM-316 Family Communication, 3 cr. Study of the family as a system with an examination of the role played by communication; the function of family roles, rules and power and how they operate to increase or decrease communication effectiveness in this system.

SPCH-COMM-318 Communication Consulting, 3 cr.

Examination of requirements, procedures, communication topic areas and levels of expertise needed for communication consulting with businesses, professional associations and governmental agencies. *Prereq.:* SPCH-COMM-214.

SPCH-COMM-322 Rhetorical Theory/Criticism, 3 cr.

Rhetorical theories from the modern era with attention to principal figures. *Prereq.:* junior standing or consent of instructor.

SPCH-COMM-323 Controversy and Reaction in the British Tradition, 3 cr.

Study of major intellectual and moral trends in British public and parliamentary debate from the mid-nineteenth century to the present day concentrating on imperialism, parliamentary reform, economic and social change, and religious and political liberty.

SPCH-COMM-324 Rhetoric of Protest and Reform, 3 cr.

Study of the speakers who through public communication had an impact on the course of American history from the colonial period to the present, such as Jonathan Edwards, Patrick Henry, Wendell Phillips, Robert Ingersoll, Angelina Grimke, William Lloyd Harrison, Carry Nation, Eugene V. Debs, Harry Truman, and Martin Luther King.

SPCH-COMM-383 Professional Internship I, 3 cr.

Professional activities in a selected field of communication, media or theatre, performed and supervised at public or private facilities, corporate communication sites, businesses, agencies, theatres, etc. Application must be made to the department chair in advance in order to facilitate the preparation of the resume, site visits, and interviews necessary for satisfactory placement.

SPCH-COMM-384 Professional Internship II, 6 cr. (See SPCH-COMM-383 for description.)

SPCH-COMM-385 Professional Internship III, 9 cr. (See SPCH-COMM-383 for description.)

SPCH-COMM-401 Introduction to Graduate Study in Speech, 3 cr. Problems, methods and resources involved in graduate study and research in all areas of speech. *Prereq.:* graduate standing and 12 credit hours in speech.

SPCH-COMM-404 Communication Theory, 3 cr. An analysis of communication theories and models to determine the nature and role of communication as a behavioral process in interpersonal relations, in groups, and in mass media. *Prereq.:* graduate standing, six upper division credit hours in speech or language arts, or consent of instructor.

SPCH-COMM-414 Organizational Communication Theory, 3 cr. This course will provide an advanced look at the major elements of organizational theory which apply to organizational communication. This field, in a modern sense, began in the 1950's and since then has grown to be one of the biggest forces in speech communication today. We will examine what theories direct the reality of organizations and how much of that reality is managed for the purposes of controlling individuals, whether overtly or symbolically. *Prereq.:* graduate standing and six upper division credit hours in speech or consent of instructor.

SPCH-COMM-418 Seminar—Research Problems in Group Communication, 3 cr. Review of research scholarship in group communication; completion of an original research study. *Prereq.:* graduate standing and six graduate credit hours in speech.

SPCH-COMM-428 Seminar—Research Problems in the Psychology of Communication, 3 cr. Review of research scholarship in the psychology of communication including a study of the nature of attention, emotion, motivation, and psycholinguistics; completion of an original research study. *Prereq.:* graduate standing and six graduate credit hours in speech.

SPCH-COMM-434 Independent Study in Communication, 3 cr. Individual investigation into selected topics in theory and practice of speech communication. *Prereq.:* graduate standing and consent of instructor.

Education

SPCH-ED-490 Specialized Problems in Speaking and Listening, 3 cr. Selected topics in methods and materials related to speaking and listening; instructional problems relative to type of programs, trends in instruction, sources, resources and research. Individual projects will adapt resources and methodology to a particular type of school and classroom, such as inner city. *Prereq.:* graduate standing.

SPCH-ED-492 The Teaching of College Speech, 3 cr. Study of the tasks of the college speech teacher; philosophy, objectives, materials and methods of instruction, speech curricula and departmental operations; professional interrelationships in the community. *Prereq.:* graduate standing and six credit hours in speech.

Mass Media

SPCH-MASS-160 The Art of Film and Video, 3 cr. Introduction to the creative foundations of film and video art by analyzing the way sight, sound, and motion are used to communicate ideas and emotions; lecture, demonstration, screening, discussion.

SPCH-MASS-165 Foundations of Broadcast Media, 3 cr. Introduction to the business and creative processes, structure and function of American television and radio emphasizing the production, distribution and reception of news and information programming.

SPCH-MASS-208 Media Laboratory, 1 cr. Participation in various phases of production and management for either on-campus or off-campus radio, television, or film activities. This course may be repeated once for laboratory credit towards graduation requirements by Speech and Performing Arts majors only. *Prereq.:* written consent of instructor.

SPCH-MASS-260 Basic Television Production, 3 cr. Analysis of the media, modes, materials, and techniques used for various program types, with special consideration of their utilization and artistry. Study tours, demonstrations and studio portable television production.

SPCH-MASS-265 Mass Media and Society, 3 cr. Development and problems of the mass media; the history, regulation, and social and economic implications of the public arts; American systems and their relation to the media's cultural content and function.

SPCH-MASS-360 Advanced Television Production, 3 cr. Conception and execution of a variety of TV programs; closed and open circuit; technical production of documentary, instructional, and dramatic programs. *Prereq.:* SPCH-MASS-260.

SPCH-MASS-363 Documentary Film, 3 cr. Historical survey of the international non-fiction film, including creative films, anthropological films, and television journalistic documentaries.

SPCH-MASS-365 Contemporary Issues in Mass Media, 3 cr. Advanced study of the socio-psychological impact of the mass media upon contemporary society. *Prereq.:* SPCH-MASS-265. May be taken for graduate credit.

SPCH-MASS-366 Creative Writing for Mass Media, 3 cr. Study of writing for the various media with practice in the creation of original works; experience in writing forms and content typical of the various media and criteria for evaluating written work; discussion of career opportunities.

SPCH MASS 369 (Title Varies) Studies in Mass Media, 3 cr. This course provides exposure to a variety of media-related topics. Each course will focus on specific investigations of the history, concepts, and theoretical approaches to mass media. Students will explore and critique media texts discussed under each course title under this larger umbrella course.

SPCH MASS 465 Mass Communication Theory, 3 cr. This course is designed to investigate the concepts, ideologies, and resulting scholarship that are relevant to the study of Mass Communication. Students will study a variety of mass communication theories and will critically evaluate the merits of these perspectives. Students will develop research projects to further interpret and utilize mass communication theories.

Performance

SPCH-PERF-130 Introduction to Theatre, 3 cr. Survey of the components of the theatrical experience and the function of the various contributors to the theatrical production. Attendance at selected theatrical productions is required.

SPCH-PERF-131 Improvisational Drama, 3 cr. Emphasis on personal growth and development in the area of creative imagination and peer interaction in improvisational situations. A tool/technique for personal growth and for the potential performer in theatre arts.

SPCH-PERF-139 Theatre Practicum I, 1 cr. Open to all students who participate in a departmental stage offering. This course may be repeated once for laboratory credit towards graduation requirements by Speech and Performing Arts majors only. *Prereq.:* a cumulative grade point average of 3.00 or better (except 1st semester freshmen).

SPCH-PERF-207 Interpreters' Laboratory, 1 cr. Participation in oral interpretation activities at local, regional, or national levels. This course may be repeated once for laboratory credit towards graduation requirements by Speech and Performing Arts majors only. *Prereq.:* SPCH-PERF-255 or written consent of instructor.

SPCH-PERF-236 American Musical Theatre, 3 cr. Survey of the development of the American musical theatre with consideration of the problems inherent in the production of musicals.

SPCH-PERF-239 Theatre Practicum II, 2 cr. Open to all students who participate in departmental stage offerings. *Prereq.:* a cumulative grade point average of 3.00 or better and SPCH-PERF-139.

SPCH-PERF-240 Technical Production A, 3 cr. An introduction to the geography of the stage, its machinery and materials, concepts of planning, organization and management for theatrical production.

SPCH-PERF-241 Technical Production B, 3 cr. An introduction to the geography of the stage, its machinery and materials, concepts of planning, organization and management for theatrical production.

SPCH-PERF-245 Acting I, 3 cr. The basic skills of acting including the actor's internal preparation for playing a role and the development of his/her external technique for projecting the role to the audience.

SPCH-PERF-246 Acting II, 3 cr. Refinement of skills developed in Acting I with emphasis on the use of improvisation to develop and project characters from standard plays. *Prereq.:* SPCH-PERF-245 or equivalent.

SPCH-PERF-249 Make-up, 3 cr. Fundamentals of stage and television make-up for straight and character roles; emphasis on the application of make-up, historical periods and uses of masks are also considered.

SPCH-PERF-255 Oral Interpretation of Literature, 3 cr. Development of intellectual and emotional responsiveness to prose, poetry and drama, and the ability to communicate effectively in performance.

SPCH-PERF-309 Independent Study in Theatre Arts, 3 cr. Individual investigation into a topic of the student's choice. *Prereq.:* consent of instructor.

SPCH-PERF-331 History of Theatre to 1600, 3 cr. Chronological survey of the development of theatre and drama of the Western World from the early Greek festivals to the Elizabethan Theatre.

SPCH-PERF-332 History of Theatre: 1600-1900, 3 cr. Chronological survey of the development of theatre and drama of the Western World from the Renaissance to the Twentieth Century.

SPCH-PERF-333 Contemporary Theatre, 3 cr. Survey of theatre and drama of the Twentieth Century. *Prereq.:* SPCH-PERF-130.

SPCH-PERF-334 Drama, 3 cr. In-depth study of the major works of a single dramatist or movement, the relationship of those works to the period in which they were produced, and their place in history of dramatic literature. Consult the schedule of classes for specific topics. *Prereq.:* SPCH-PERF-130.

SPCH-PERF-339 Theatre Practicum III, 3 cr. Open to all students who participate in departmental stage offerings. *Prereq.:* a cumulative grade point average of 3.00 or better and SPCH-PERF-239.

SPCH-PERF-340 Scenographic Design I, 3 cr. Comprehensive, two trimester course in aesthetics and principles of scene design, costume design and stage lighting. Theory and practical application. *Prereq.:* SPCH-PERF-240.

SPCH-PERF-341 Scenographic Design II, 3 cr. (See SPCH-PERF-340 for description.) *Prereq.:* SPCH-PERF-340.

SPCH-PERF-345 Directing, 3 cr. Principles and techniques of the director's art. *Prereq.:* SPCH-PERF-240 and SPCH-PERF-245.

SPCH-PERF-347 Playwriting, 3 cr. Study of dramatic art with practice in the writing of plays for dramatic production. An attempt will be made to provide laboratory productions of outstanding student works. *Prereq.:* consent of instructor.

SPCH-PERF-348 Children's Theatre Workshop, 3 cr. Survey of theatre for children from creative dramatics to theatre in the secondary schools. All significant facets of play production are covered in performance of an actual script.

SPCH-PERF-349 Summer Theatre, 3 cr. A laboratory class covering phases of theatre production in conjunction with the production of a play script. Includes acting, directing, set and costume design, choreography, lighting, props, publicity, theatre management as related to production of a play script.

SPCH-PERF-352 Interpretation of Poetry, 3 cr. Literary analysis and oral performance of lyric, narrative, dramatic poetry, and other presentational forms. *Prereq.:* SPCH-PERF-255.

SPCH-PERF-353 Interpretation of Prose, 3 cr. Literary analysis and oral performance of both fiction and non-fiction, including novels, short stories, essays, letters, diaries, travel literature, and biographies. *Prereq.:* SPCH-PERF-255.

SPCH-PERF-354 Interpretation of Drama, 3 cr. Literary analysis and performance of plays, emphasizing the solo reader performing a variety of roles. *Prereq.:* SPCH-PERF-255 and consent of instructor.

SPCH-PERF-355 Advanced Oral Interpretation, 3 cr. Literary analysis of poetry and prose; presentation of individual and multiple performers. *Prereq.:* SPCH-PERF-255.

WOMEN'S STUDIES PROGRAM

Core Faculty

Celia Jill Althage, M.L.S., Professor,
Library and Women's Studies

Shelley A. Bannister, Ph.D., J.D., Professor,
Justice Studies and Women's Studies

Karen Bartels, Ph.D., Associate Professor,
Earth Science and Women's Studies

Deberah Bernstein, J.D., Lecturer,
Justice Studies and Women's Studies

Vicki Byard, Ph.D., Associate Professor,
English and Women's Studies

Netiva Caftori, D.A., Professor, Computer Science
and Women's Studies

Laurie Fuller, Ph.D., Associate Professor
and Coordinator of Women's Studies

Renny Golden, D.Min., Professor, Justice Studies
and Women's Studies

Jacqueline Harper, MA, Director of Women's Services
and Re-Entry Programs, and Women's Studies Faculty

Sarah Hoagland, Ph.D., Professor, Philosophy
and Women's Studies

Lisa Hollis-Sawyer, Ph.D., Assistant Professor,
Psychology and Women's Studies

Timothy Libretti, Ph.D., Associate Professor, English
and Women's Studies

Nancy Matthews, Ph.D., Associate Professor,
Justice Studies and Women's Studies

Erica Meiners, Ph.D., Assistant Professor, Educational
Leadership and Development and Women's Studies

Audrey Natcone, J.D., Lecturer, Justice Studies and
Women's Studies

Wamucii Njogu, Ph.D., Associate Professor, Sociology
and Women's Studies

Vicki Roman-Lagunas, Ph.D., Associate Professor,
Foreign Languages and Literatures and Women's
Studies

Barbara M. Scott, Ph.D., Professor, Sociology
and Women's Studies

June Sochen, Ph.D., Professor, History
and Women's Studies

Susan Stall, Ph.D., Associate Professor, Sociology
and Women's Studies

Cathy S. Stanley, M.S.W., Associate Professor,
Social Work and Women's Studies

Martha Thompson, Ph.D., Professor, Sociology
and Women's Studies

Amanda Wooden, Ph.D., Assistant Professor,
Political Science and Women's Studies

SPCH-PERF-357 Oral Interpretation of Shakespeare, 3 cr. Selected comedies, tragedies and histories, tracing the development of the dramatist; emphasis on special performance techniques to illuminate a thorough study of the plays. *Prereq.:* SPCH-PERF-255 or consent of instructor.

SPCH-PERF-359 Ensemble Interpretation, 3 cr. Theory and practice of oral interpretation by groups including choric readings, reader's theatre, and chamber theatre. *Prereq.:* SPCH-PERF-255.

SPCH-PERF-393 Creative Dramatics, 3 cr. Development of leadership in conducting creative dramatic programs to serve the needs of children from grades one through twelve.

SPCH-PERF-423 Independent Study in Performing Arts, 3 cr. Individual investigation into selected topics in methods and materials for dramatic activities. *Prereq.:* graduate standing and consent of instructor.

SPCH-PERF-430 Dramatic Theory, 3 cr. Analysis of major theories of dramatic writing and dramatic production from Aristotle to Antonin Artaud and their influence upon theatre and drama. *Prereq.:* graduate standing and nine credit hours in performing arts or dramatic literature at the graduate or undergraduate levels.

SPCH-PERF-431 Comparative Performing Arts, 3 cr. Comparison and contrast of the various performing arts such as ballet, opera, drama, film and television as they present specific works. Attendance at performances required. *Prereq.:* graduate standing and nine credit hours in performing arts.

SPCH-PERF-432 Aesthetics of Theatre Production, 1 cr. A consideration of the production elements of acting, directing and design as they illuminate the script. Emphasis will be on criticism of productions of new scripts.

SPCH-PERF-438 Seminar—Research Problems in Performing Arts, 3 cr. Review of recent scholarship in the performing arts; completion of an original research study. *Prereq.:* graduate standing and six graduate credit hours in speech.

SPCH-PERF-446 Theatre Management, 3 cr. Managerial policies and practices in educational and community theatres with emphasis upon common problems and their solution. *Prereq.:* graduate standing, nine credit hours in performing arts, or consent of instructor.

SPCH-PERF-458 Seminar—Research in Interpretative Arts, 3 cr. Review of research scholarship in the interpretative arts; completion of an original study. *Prereq.:* graduate standing and six graduate credit hours in speech.

Affiliate Faculty

- Debra Bruce-Kinnebrew, M.F.A., M.A., Professor,
English and Women's Studies
- Kathy Bottlany, M.A., Lecturer, English and Women's
Studies
- Ellen Cannon, Ph.D., Professor, Political Science
and Women's Studies
- Julie Kim, Ph.D., Associate Professor,
English and Women's Studies
- Timothy Scherman, Ph.D., Associate Professor,
English and Women's Studies

The Women's Studies Program (WSP) is an interdisciplinary program which re-examines from feminist perspectives traditional bodies of knowledge taught in the university and distributed through society at large. We are concerned with the political and historical nature of the production of knowledge. The curriculum emphasizes rigorous critical thinking, imagination, and creativity, and assists both students and faculty to develop knowledge from feminist, anti-racist, multicultural, and global perspectives.

The WSP operates the Blanche Hersh Women's Studies Resource Center and the Empowering Students Computer Lab located in CLS-2096, which is staffed by volunteers and student assistants. The Center houses a Women's Studies library of books and periodicals. Additionally, the computer lab is a place for students to go on campus for computer assistance and one-on-one tutoring. It is a drop-in Center where students, faculty, and staff can gather in a more informal setting. Call 773-442-4553 for current hours. The WSP sponsors speakers, films, and a variety of events during the year. Call 773-442-4550 for a list of happenings.

UNDERGRADUATE PROGRAMS

Majors in Women's Studies will fill out the entrance interview form in the Department office. Students will be required to take the English Competency Exam prior to declaring the major. All Women's Studies majors must complete six core courses (18 credit hours) and complete six courses (18 credit hours) of electives for a total of 36 credit hours. The program coordinator serves as advisor for students choosing the Women's Studies major.

Core Courses Required for all Majors:

WSP-101 Women's Perspectives and Values	3 cr.
WSP-201 Feminist Ideas: Women's Work, Women's Lives.....	3 cr.
WSP-202 Feminist Activism: Grassroots Resistance in the U.S.....	3 cr.
WSP-302 Feminist Theory: Questions of Race, Class, & Sexuality	3 cr.
WSP-323 Internship in Women's Studies	3 cr.
WSP-350 Senior Seminar in Women's Studies (capstone course).....	3 cr.
Approved Electives	18 cr.
Total Hours for a Major in Women's Studies	36 cr.

Elective cross-listed courses are offered by Women's Studies faculty (12-18 credit hours). Students must choose from a list

that will encourage an interdisciplinary approach to Women's Studies, and will expose them to the widest variety of Women's Studies faculty. Elective courses, which do not appear on the Women's Studies list, must be approved by the major advisor and may not exceed 6 credit hours.

Minor in Women's Studies

All Women's Studies minors must complete two core courses (6 credit hours) and five electives (15 credit hours) from at least two academic departments for a total of 21 credit hours. The program coordinator serves as advisor for students choosing the Women's Studies minor.

Required Courses

WSP-101 Women's Perspectives and Values.....	3 cr.
WSP-350 Seminar in Women's Studies	3 cr.
Electives from at least 2 departments	15 cr.
Total Hours for Minor in Women's Studies	21 cr.

Students should also be aware of the University requirements for the Bachelor's degree. All students must complete a minimum of 42 semester hours at the 300 level.

COURSE OFFERINGS

WSP-101 Women's Perspectives and Values, 3 cr. This course examines the philosophical basis of patriarchy and analyzes the impact of gender on the lives of women. Emphasis is placed on the effect that ethnicity, race, class, and sexual orientation have in determining the status of women in our society. Feminist theory and creative writing are studied; women's voices, perspectives and values are discussed. (This is a General Education course in the area of Humanities.)

WSP-201 Feminist Ideas: 3 cr. This course, subtitled Women's Work, Women's Lives, is intended to insure that Women's Studies majors understand what feminist perspectives are and their relationship to women's studies, social issues, and social change. With a focus on women's work, students will learn to recognize historical and contemporary feminist leaders, understand the implications and applications of feminist ideas, apply lessons learned from past struggles to contemporary social issues, and evaluate women's changing status by race, class, sexual orientation, and other social statuses. *Prereq.:* WSP-101.

WSP-202 Feminist Activism: 3 cr. This course, subtitled Grassroots Resistance in the U.S., focuses on women as social actors challenging gender stereotypes; organizing to reduce poverty, racism, homophobia and violence; working to expand opportunities; and confronting barriers in education, the criminal justice system and politics. Popular analyses of women and social change often limit themselves to women's roles in families and paid workplaces. Focus is on ordinary women who are working collectively in diverse social settings to empower themselves and others, exploring barriers women face, goals and strategies for social change, and the rewards and challenges of feminist grassroots activism. *Prereq.:* WSP-101, WSP-201.

WSP-283 Assertiveness Training for Women, 3 cr. The purpose of the course is to assist women in finding effective alternatives for the solutions of many familiar problems. It is designed to teach women how to handle themselves and their situations in an assertive manner. Women who have difficulty expressing both their positive and negative feelings, or who experience anxiety when asserting their rights can benefit from this course.

WSP-301 Issues in Women's Studies, 3 cr. Exploration at an advanced level of current issues and special concerns in Women's Studies. Consult the Schedule of Classes for specific topics. *Prereq.:* WSP-101 or consent of instructor.

WSP-302 Feminist Theory: 3 cr. This course, subtitled Questions of Race, Class, and Sexuality, is designed to give an introduction into conceptions of feminist theories. Moreover, much of the course will be spent reading and writing about theory. We will begin with an attempt to articulate the assumptions that underlie contemporary feminist theories by tracing the theoretical conceptions they are based upon. Our focus will be on the importance of the position and situation of the subject with respect to questions of class, race, sexuality, gender, historical moment and social location. *Prereq.:* WSP-101, 201, and 202.

WSP-321 Internship in Women's Studies, 1 cr. Placement in a university or community agency that provides services to women. This will be an opportunity to test classroom concepts in a field setting. *Prereq.:* permission of the Women's Studies coordinator

WSP-322 Internship in Women's Studies, 2 cr. (See description for WSP-321.)

WSP-323 Internship in Women's Studies, 3 cr. (See description for WSP-321.)

WSP-331 Independent Study in Women's Studies, 1 cr. An intensive investigation of a special area of Women's Studies. *Prereq.:* permission of the Women's Studies coordinator.

WSP-332 Independent Study in Women's Studies, 2 cr. (See description for WSP-331.)

WSP-333 Independent Study in Women's Studies, 3 cr. (See description for WSP-331.)

WSP-350 Seminar in Women's Studies, 3 cr. This interdisciplinary capstone course builds on knowledge gained in other Women's Studies classes. Advanced instruction in appropriate areas such as: feminist theory and methodology, international women's movements, and other topics. Includes a component on research methods/writing. Consent of the instructor is necessary. This course is a requirement for students completing the Women's Studies Major and Minor.

Prereq.: WSP-101 plus 9 credits of Women's Studies and cross-listed courses or consent of instructor.

Cross-Listed Courses

Justice Studies

JUST-311	Women, Crime, and the Criminal Justice System
JUST-315B	Women, Poverty and Justice
JUST-315K	Women, Justice, and the Law
JUST-321	Violence Against Women
JUST-324	Women as Political Prisoners
JUST-325	Women and Revolution: Theories of Justice

English

ENGL-303	Gay and Lesbian Literature
ENGL-318N	American Women Writers of the 19th Century
ENGL-371	Studies in Women's Literature

History

HIST-338	Women in American History
HIST-349	Women in Popular Culture

Philosophy

PHIL-105	Feminist Philosophy
PHIL-291	Philosophical Foundations of Oppression
PHIL-351	Sexism and the Philosophy of Language
PHIL-353	Feminism and the Philosophy of Science
PHIL-373	Advanced Feminist Philosophy

Political Science

PSCI-301K	Gender and Development
PSCI-373	Gender and Politics
PSCI-398	Law and Social Change

Psychology

PSYC-312	Psychological Development in Women
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Sociology

SOC-105	Women, Men, and Social Change
SOC-214	Sociology of Marriage and the Family
SOC-270	Sociology of the Latina
SOC-306	American Women: The Changing Image
SOC-320D	Topics: Women and Social Action
SOC-329	Sociology of Violence
SOC-340	Sociology of Sexuality
SOC-344	Sociology of Black Women
SOC-347	Sociology of Media
SOC-376	Sociology of Working Women

COLLEGE OF BUSINESS AND MANAGEMENT

Varkey K. Titus, Ph.D., Dean
James E. Hazeltine, D.B.A., Associate Dean

COLLEGE MISSION AND OVERVIEW

The mission of the College of Business and Management is to provide an excellent and accessible academic forum for the development and dissemination of knowledge about effective and ethical business practice in a diverse, multicultural society. The College is committed to the Chicago area's needs for educational opportunities and to the business community's needs for skilled professionals.

College programs combine a liberal arts education with professional career preparation in Accounting, Finance, Management, Marketing, and General Business Administration. The five undergraduate degree programs prepare students for careers in business or for additional study in graduate schools of business.

The College of Business and Management subscribes to quality standards established by AACSB International: The Association to Advance Collegiate Schools of Business, and is committed to providing you a well-rounded education for a career in business, government, or non-profit organizations.

DEGREE PROGRAMS

The College of Business and Management offers three degree programs: the Bachelor of Science, Master of Business Administration (MBA), and Master of Science in Accounting (MSA). There are five undergraduate major programs:

- Accounting
- Finance
- General Business Administration
- Management
- Marketing

The College also offers minor programs in Accounting, Finance, Management, Marketing, and International Business for those who wish to supplement or expand coursework in other disciplines. A minor, however, is not a graduation requirement for Business students.

COLLEGE ORGANIZATION

The College of Business and Management is organized into two departments, each headed by a chairperson:

- Department of Accounting, Business Law, and Finance
 - Department of Management and Marketing
- Classes are scheduled to accommodate the needs of full-time, part-time, and evening students.

BUSINESS SERVICES BUREAU

The Business Services Bureau (BSB) provides technical assistance to Chicago-area business concerned about issues of management, marketing, accounting, and finance. Through seminars, workshops, and direct services, the Bureau provides assistance in areas which include starting and growing a business, improving productivity, human resource management, quality assurance, supervisory skill development, and information technology. The BSB also helps entrepreneurs identify the special needs of developing businesses and establishes internship opportunities for NEIU business students.

PROGRAM ADVISEMENT OFFICE

The Office of Program Advisement, housed in the College of Business and Management, provides professionally staffed, centralized advisement to students who wish to enroll in Business and Management classes. If you're considering Business course work, you are encouraged to contact the Advisement Office prior to declaring a major or minor to learn about the College's degree programs and procedures. Once you've enrolled as a Business major or minor, the Program Advisors keep records of your progress toward graduation and serve as resources for information about College of Business and Management courses and programs.

The Program Advisors' Office can also supply you with academic flowcharts and program guides that provide additional details about course selection planning for major and minor sequences. The Office is located in Room CLS 0006 (lower level of the Classroom Building). You may reach an Advisor by telephone at (773) 442-6111 or by e-mail at <p-advise@neiu.edu>.

For more information about College of Business and Management programs and requirements, visit the College's Home Page on the World Wide Web at <http://www.neiu.edu/~bschool>. You may also wish to subscribe to the College's e-mail list server, Mercatus, which faculty and staff members use to post current information about Business courses and programs.

PROFESSIONAL SCHOOL CURRICULUM MODEL

Consistent with the emphasis on excellence stated in its mission, the College has implemented a professional school curriculum model that concentrates advanced study in business subjects during the last two years of a four-year program. If you intend to take Business and Management classes, we want you to take liberal arts and business preparatory courses in the earlier years of your academic experience so that you're well-equipped for success in your Business studies.

Admission to Northeastern Illinois University does not automatically constitute admission to programs offered by the College of Business and Management. If you seek a baccalaureate degree in business or want to minor in a business discipline, you'll be expected to apply formally for admission to the College after you've completed the University's General Education requirements plus a set of eight Foundation courses that provide basic skills critical for success in a Business program.

If you're a Northeastern non-business student who wants to take one or more Business courses, you need not apply for admission to the College of Business and Management. You must, however, meet the same prerequisites as Business majors and minors, including completion of the College's Foundation Courses with a GPA of 2.50 or higher. As a non-business student, you may take up to 27 hours of Business courses.

At-large students – students (with or without degrees) registered at other institutions who enroll for Northeastern classes – must secure approval from the Business Program Advisors to register for any Business course.

SEQUENCE OF COURSES AND ADMISSION REQUIREMENTS

A. General Education Courses

General Education courses are those in the fine arts, humanities, behavioral/social sciences, and natural sciences that provide a well-rounded education for all students. Northeastern Illinois University's General Education requirements are described elsewhere in this catalog, and must be fulfilled prior to declaring a major or minor in business.

B. Foundation Courses

These are basic skills courses that you complete before being admitted to upper-division (300-level) study in business. Three are specific courses in Business and Management, and five are in Arts and Sciences. Please check the course descriptions in this catalog for course prerequisites.

The Foundation Courses are:

ENGL 101	Writing I	3 cr.
ENGL 102	Writing II	3 cr.
MATH 110	Finite Math	4 cr.
MATH 111	Business Calculus	4 cr.
ECON 217*	Principles of Microeconomics	3 cr.
ACTG 201*	Introduction to Financial Accounting ...	3 cr.
ACTG 202*	Introduction to Managerial Accounting	3 cr.
BLAW 285*	The Legal Environment of Business ...	3 cr.
Total Hours for Foundation Course		26 cr.

* Foundation Courses that are also part of the Business Core.

Pre-Major Transition Semester

If you are in the second semester of your sophomore year (or its equivalent) and are completing the Foundation Courses, you may take 300-level Business courses during the same semester under the following conditions:

1. You must be able to complete all of the Foundation requirements in that semester.
2. You must be able to complete at least 60 credit hours (45 hours for business minors) of total college-level course work by the end of that semester.
3. You must have earned a 2.50 GPA for Foundation Courses that you've already taken, and a 2.00 cumulative GPA for all course work you've taken at Northeastern.

You may register for concurrent Foundation and 300-level courses for one semester only. If you do not completely fulfill the requirements for admission to the College of Business and Management by the end of that term, you will not be permitted to continue your Business studies until all program admission requirements have been met. Should you drop a required Foundation Course during the Pre-Major Transition semester, you'll be expected as well to drop any 300-level business courses for which you've enrolled.

C. Admission to the College of Business and Management: Declaring a Business Major and/or Minor

To enroll in undergraduate business programs, you must first fulfill the University's General Education requirements. Then, you must meet the following additional College of Business and Management admission standards so that you can declare a major or minor:

1. Complete each of the eight Foundation Courses (listed above) with a grade of "C" or higher, and earn a Foundation Course grade point average of 2.50 or better (on a 4-point scale).
2. Complete at least 60 total credit hours of course work (45 hours for Business minors), including the Foundation Courses, with a cumulative grade point average of 2.00 or higher.
3. Apply for and be approved for admission to the College of Business and Management. This is equivalent to declaring a business major and/or minor, and allows you to enroll in upper-division business courses.

D. Core Courses

Core courses are those that are required of all majors. Four of the Core Courses are also Foundation Courses. Please check the course descriptions in the catalog for course prerequisites.

ACTG 201*	Introduction to Financial Accounting ...	3 cr.
ACTG 202*	Introduction to Managerial Accounting	3 cr.
BLAW 285*	The Legal Environment of Business ...	3 cr.
ECON 215	Principles of Macroeconomics	3 cr.
ECON 217*	Principles of Microeconomics	3 cr.
ABF 350	Management Information Systems	3 cr.
FINA 360	Principles of Financial Management I ..	3 cr.
MNGT 370	Principles of Management	3 cr.
MKTG 350	Principles of Marketing	3 cr.
MNGT 368	Business Statistics	3 cr.
MNGT 377	Production/Operations Management ..	3 cr.
MNGT 379	Operations Research	3 cr.
Total Hours for Core Courses		36 cr.

* Core Courses that are also part of the Foundation.

FINA 360, MNGT 370, MKTG 350, and MNGT 368 are considered gateway courses. You should complete these before enrolling for advanced courses in your major.

E. Major/Minor Required Courses

Major/Minor Required Courses are those that departments require for the specialized majors and minors they offer. Specific requirements for each major and minor are listed under the departmental headings in this catalog.

All Business majors are required to take MNGT 393, Strategic Management, as the capstone course. To enroll in MNGT 393, you must be in your final semester before graduation, have completed all business Core courses, have applied for graduation, have met all university graduation requirements, and have earned a 2.50 GPA in your major courses and a 2.50 Cumulative GPA.

F. Electives

Elective Courses are those you choose to match your own special interests and abilities. Specific elective choices and prerequisites for each major and minor are listed under the departmental headings in this catalog.

PREREQUISITES

The curriculum in the College of Business and Management is highly structured and carefully integrated. The content and methods of upper division courses assume that you have already taken a sequence of lower division courses, the prerequisites for those courses, and other program prerequisites that provide you with skills you will need for more advanced study. For that reason, all students—including students-at-large, non-Business majors, and non-traditional degree students—must adhere to published course prerequisites, which are strictly enforced. The minimum acceptable grade for a prerequisite course is “C.” Grades of “D,” “F,” “P,” or “I” do not constitute successful completion of a prerequisite course.

Class registration lists are monitored by the Office of Program Advisement. If you do not meet all published prerequisites for courses in which you have enrolled, you will be so notified and will be required to withdraw from those courses and are responsible for any financial consequences of your withdrawal.

REGISTRATION INFORMATION

You can register for College of Business and Management classes by calling the Touch-Tone Telephone Registration System (TTRS). Before you register, be sure that you have complied with published prerequisites and other registration requirements. If you're not sure that you have met all of the course prerequisites, contact the Program Advisors.

All courses with Incomplete grades are treated as courses in progress. A course with an Incomplete grade cannot be used to satisfy course prerequisites.

TRANSFER CREDITS FROM OTHER INSTITUTIONS

Northeastern Illinois University will generally accept courses transferred from other accredited colleges and universities. The maximum number of transfer credits that can be applied toward a College of Business and Management major program is 24 (8 courses), and the maximum number of transfer credits that can be applied to a College of Business and Management minor is 9 (3 courses). All transfer students who major in the College of Business and Management must take a minimum of 10 Business and Management courses at Northeastern.

If you are a transfer student, contact the College of Business and Management Program Advisors to apply for admission to the College and to have your transfer credits evaluated for acceptance by the College. You may be asked to provide syllabi and catalog descriptions of the courses for which you seek transfer credit. You should also supply the Evaluation of Transfer Credits form provided by Northeastern's Office of Admissions and Records. Until this review has taken place, you should not assume that transferred courses have fulfilled any College of Business and Management course requirements.

Acceptance of transfer course work by Northeastern's Office of Admissions and Records does not guarantee that the transferred course(s) will meet College of Business and Management program requirements. In general, however, advanced business courses taken within the previous six years at accredited four-year colleges and universities will be accepted by the College of Business and Management.

Introduction to Financial Accounting, Introduction to Managerial Accounting, Business Law I and II, and Legal Environment of Business are lower division courses at Northeastern, and the College will accept credit for those courses from other accredited colleges and universities that you attended before you became a student at Northeastern.

A lower division (freshman and sophomore level) course that you transfer to the University is generally not accepted for

College of Business and Management upper division credit (however, see Proficiency Examinations section below), even if a comparable course appears to be offered at the upper division level, and even though Northeastern may accept the course as a general elective.

Acceptance of a transferred course should never be interpreted to mean that credit has also been recognized for prerequisites to the equivalent College of Business and Management course.

Proficiency Examinations

The College of Business and Management may grant you waiver credit for a transferred lower-division course if you apply for and pass a proficiency examination administered by the Office of Program Advisement. Courses for which the College offers proficiency exams are Principles of Marketing, Principles of Management, Principles of Finance, Cost Accounting, Intermediate Financial Accounting I and II, Federal Income Tax (Individual), and Auditing.

Proficiency examinations are offered each term through the Office of Program Advisement. To take the proficiency exam, you must first demonstrate that you earned a grade of "C" or higher in the course for which you are seeking transfer credit. You will receive a PASS or FAIL for your performance on the examination. If you pass, the credit for the transferred course and the grade you earned will be applied as appropriate to your Business major or minor, but will not count toward the University's requirement that at least 42 hours of course work be taken at the upper division level for graduation. You may take a proficiency exam for a given course one time only, and you must take it before you complete all other requirements for admission to the College of Business and Management. The best strategy is to attempt proficiency examinations as early as possible so that you can plan accordingly. Contact the Office of Program Advisement to make application for a proficiency exam and to inquire about testing dates.

Enrolling in Multiple Institutions

Once you have been admitted or re-admitted to Northeastern, we will expect you to complete all Business-related course work (Core, Required, and Elective Business courses) at Northeastern, not at another institution. Approval for taking courses elsewhere, and only for an extraordinary circumstance, must be granted in advance by the Chairperson of the appropriate department. A form for this purpose can be obtained in the university's Admissions and Records office.

GRADUATION REQUIREMENTS

To graduate with a Business degree, you must meet all University graduation requirements, have completed all Foundation, Core, and Major and/or Minor required and elective courses in the College of Business and Management, achieved at least a cumulative 2.50 (on a 4-point scale) grade point average for all course work, and a 2.50 GPA for all of your Major course work (Core Courses plus Major/Minor required and elective courses).

FILING FOR GRADUATION

To apply for graduation, contact the Program Advisors during the semester just prior to the term in which you plan to graduate. See approximate dates below:

GRADUATION GOAL	DEADLINE FOR FILING
May 2003	Previous September 24, 2002
August 2003	Previous January 22, 2003
December 2003	Previous May 22, 2003

When you file for graduation, you must bring grade reports or transcripts showing that you will complete your required Business course work before your planned graduation date. Major and minor graduation forms are valid for a one-year period from the date on the form. If you do not graduate within that period, you should contact the Program Advisors to complete a new graduation form and forward it to the University's graduation evaluators.

ADDITIONAL ACADEMIC REGULATIONS

Governing Standards

The requirements that govern any Business degree are those that were published in the Academic Catalog at the time you most recently declared your Business major or minor, except for changes in course prerequisites, which become applicable as they are enacted. If you are absent from the University for one year or more, you revert to undeclared status, must re-apply for admission to the College on your return, and must meet all current declaration and business program requirements.

The decision of the College of Business and Management Dean's Office shall be final in all matters of college policies, requirements, and course prerequisites.

Class Attendance/Course Withdrawals

In accordance with University policy, you're expected to attend the first class session of any course in which you are enrolled to confirm your registration for that course. If you stop attending classes, we will expect you to withdraw from the course through established University procedures. Failure to drop a course that you stop attending for any reason is the same as failing the course.

Pass/Fail Policy

No College of Business and Management course, including Foundation courses, may be taken on a Pass/Fail basis. Courses with "D" and "P" grades, no matter where taken, may not be applied toward any business major or minor program.

Repeat Course Policies

The College calculates your GPA for Foundation courses and for your Major using only the highest grade you earned for a course that you took more than once. However, the College and the University will count all takings of a course for calculation of your cumulative GPA.

General Education Credit for ECON 215 and 217

You may apply credit earned for Economics 215 and 217 to both the College of Business and Management Core requirements and the University's General Education requirements. The course credit is, however, counted only once toward graduation.

Double Business Major Requirements

Students who wish to complete a double Business major must take a minimum of 30 additional credits beyond the course work required for the first major, consisting of at least 21 credits in the second major discipline plus 9 elective credits in courses offered by the College of Business and Management. Contact the College's Office of Program Advisement for further information.

Duplication of Course Credit Across Majors and Minors

If you choose to major in one area of business (Accounting, Finance, Management, or Marketing) and minor in another, or to major in more than one area, you may not count the same course toward fulfilling requirements in both programs. If the same course is required by more than one program in which you are enrolled, you must select a substitute College of Business and Management course with the approval of the chairperson of the major or minor department.

Aging of Course Work

Course work taken over an extended period of time may be reviewed for currency, and credits deemed to be dated (generally defined as over six years old) may be rejected for applicability toward a major or minor.

Academic Honesty

Cheating, plagiarism, and other acts of academic misconduct as defined in the Student Handbook will be dealt with severely by the College of Business and Management. Violations may result in a grade of "F" and will be reported to the Office of the Dean of Students.

GRADUATE PROGRAMS

Overview

The College of Business and Management offers graduate programs in business leading to the **Master of Business Administration (MBA) degree** and the **Master of Science in Accounting (MSA) degree**. One's undergraduate degree need not be in a business subject in order to pursue either of these business graduate degrees. Students who have majored in business as undergraduates may be waived from some Phase I course requirements in each degree track. Non-business undergraduate majors, however, have to meet all course requirements.

Admission to the Graduate Business Programs

All potential graduate students must first be admitted to the Graduate College before they can be considered for admission to the graduate business programs. All application materials are to be sent directly to the Graduate College. Once a potential graduate business student's file is complete, it will be forwarded to the College of Business and Management for admission consideration.

The Admissions Committee of the College of Business and Management makes decisions about the admission of students into graduate business programs leading to the MBA degree and the MSA degree. The Committee evaluates applications on the basis of (a) transcripts of all course work completed at accredited four-year institutions that led to the award of a bachelor's or other earned credits or degrees; (b) performance on the Graduate Management Admission Test (GMAT); (c) a one-page typewritten Statement of Career Goals and Objectives; (d) letters of recommendation; and (e) any other evidence that the committee may need to determine that an applicant is qualified for program admission.

Full Admission

To be considered for full admission to graduate business programs, an applicant must have a minimum GMAT score of 450 and an undergraduate cumulative GPA of 2.75 or higher (on a system where 4.0 is an "A"). In addition to these minimum quantitative requirements, careful attention is paid to the GMAT Verbal and Quantitative scores, as well as the GMAT Analytical Writing score, the Statement of Career Goals and Objectives, and to the letters of recommendation. International students must have a score of 550 (or 213 by computerized testing) or better on the Test of English as a Foreign Language (TOEFL), must provide an evaluation of transcript materials by Educational Credential Evaluators, Inc., and must satisfy visa requirements.

Note: A GMAT Preparation course is available through NEIU. Call the College Business and Management at 773-442-6100 for details.

Conditional Admission

A limited number of students who do not meet these minimum requirements may be admitted on a conditional basis after a careful scrutiny of their application materials. Conditional admission is typically offered to students who demonstrate an exceptional characteristic which compensates for academic deficiencies in no more than one admission criteria. At the discretion of the College of Business and Management Admissions Committee, students granted conditional admission to the graduate business programs may be subjected to academic load limitations, restricted access to course registration opportunities, and to other requirements stipulated at the time conditional admission is offered.

Deficiencies

Students may be advised to enroll in certain undergraduate courses before registration in graduate business courses if there are deficiencies in their academic background, particularly in mathematics, computer skills, writing, and language skills. Any courses taken at the undergraduate level to correct such identified deficiencies will not count toward the graduate degree; for example, Finite Math and Business Calculus or their equivalencies are required for all graduate program applicants but will not count toward the graduate degree.

Transfer Credits

Requests for transfer credits with supporting documents/transcripts should be submitted to the Graduate College. Upon the recommendation of the Coordinator of the Graduate Program and the approval of the Dean of the College of Business and Management and the Dean of the Graduate College, a student may transfer a maximum of nine semester hours of graduate credit from the degree-granting program of another accredited college or university for use in meeting the requirements of the Phase II curriculum.

Advising

The Coordinator of the MBA program is the graduate advisor for all students seeking admission to the MBA program. The Coordinator of the MSA program is the graduate advisor for all students seeking admission to the MSA program. All graduate students, irrespective of status, must secure official course authorization from the appropriate Coordinator of their graduate business program prior to registration in order to enroll in any graduate course offered by the College of Business and Management. Advising contacts (either in person or by telephone) where course authorizations or other advising information can be obtained should be scheduled at least two working weeks prior to the term where course enrollment is sought.

At-Large Students

Students not admitted to a graduate program may not enroll in graduate business courses.

Course Enrollment Guidelines

Full-time graduate business students are strongly advised to enroll for no more than nine hours of graduate credit in a fall

or spring term and for no more than six hours of graduate credit during a summer term. Part-time graduate business students are strongly advised to enroll for no more than six hours of graduate credit during a fall or spring term and for no more than three graduate credits during a summer term. Exceptions are approved by the appropriate graduate advisor.

Course Scheduling

Nearly all graduate business courses being offered are scheduled for evening (most often) or Saturday (less often) time periods. The College of Business and Management makes an effort to schedule graduate business courses by following a predictable pattern. Students are cautioned to make course choices carefully and well in advance so that program completion will not be delayed because a needed course is not available.

MASTER OF BUSINESS ADMINISTRATION (MBA) PROGRAM

The MBA Program provides students with a broad knowledge base in the area of business and management which will prepare them for mid- and upper-level positions in both the private and public sectors, including the manufacturing, service, financial, institutional, and government fields. The MBA Program offers a challenging and practical orientation to the complexities of modern business management and to the tools necessary for business decision-making. Students with no prior education in business will be required to complete 51 credit hours: i.e., 18 credit hours of Phase I Foundation Courses and 33 credit hours from the Phase II Advanced Graduate Business Core Curriculum. Students with prior formal education in business may petition to waive up to 18 credits from the Phase I Foundation. This waiver of up to 18 credits for students with prior education in business depends upon the specific makeup of their undergraduate experiences and the grades received. Decisions regarding course waivers will be made by members of the MBA Admissions Committee at the time an admissions decision is reached.

Within the core (Phase II) requirement, each MBA student selects three elective courses focused toward their particular interests.

The **Accounting** electives provide a strong theoretical background in financial and managerial accounting as well as in corporate and personal income taxes.

The **Finance** electives offer students a solid foundation in financial management, banking, and financial markets, and opportunities to learn and apply finance and options trading skills.

The **International** electives offer a multi-disciplinary international focus.

The **Management** electives develop skills in the areas of human resource management, manufacturing and distribution operations, strategic planning and decision making.

The **Marketing** electives prepare you for a career in marketing research and planning and marketing management in a global environment.

MBA Program Requirements

Effective for students matriculating to the MBA program in Fall 1999 or later, a new MBA program, based upon an extensive review of the former program, is being implemented. These new students must follow the program as described below. For comparison purposes, old program course numbers corresponding to similar new program courses are indicated in the Phase II section.

Phase I - Foundation Courses - Required for all MBA students unless specific waivers have been granted based upon prior equivalent course work.

ACTG-400	Fundamentals of Accounting	4 cr.
BLAW-400	Legal Environment of Business	2 cr.
FINA-400	Fundamentals of Financial Management	2 cr.
ECON-401	Fundamentals of Business Economics	4 cr.
MKTG-400	Fundamentals of Marketing	2 cr.
MNGT-400	Managing Organizations	2 cr.
MNGT-401	Business Statistics	2 cr.
		18 cr.

Phase II - Advanced Graduate Business Core Courses - Required for all MBA students.

ACTG-402*	Managerial Accounting	3 cr.
ACTG-403 (450)*	Management of Information Systems and Technology	3 cr.
FINA-402 (461)*	Issues in Corporate Finance	3 cr.
MKTG-402 (450)	Marketing Management	3 cr.
MNGT-402	Applied Business Research	3 cr.
MNGT-403 (471)*	Leadership and Organizational Behavior	3 cr.
MNGT-404 (477)*	Production/Operations Management	3 cr.
MNGT-502 (550)*	Business Policy	3 cr.
		24 cr.

Elective Courses 9 cr.

Total for Degree 33 - 51 cr.

*Indicates that the course satisfies both the old and the new program requirements, though there are title and content changes. Old program course numbers are listed in parentheses.

Alternatives to Standard Courses

Up to six credit hours of elective courses may be earned through two types of supervised activities: an independent project and a master's thesis. A student may register for no more than one independent project (three credit hours). A thesis is a scholarly endeavor equal to six credit hours of standard courses. For further details about either of these alternatives, please contact the MBA Coordinator.

MASTER OF SCIENCE IN ACCOUNTING (MSA) PROGRAM

The MSA curriculum is designed to meet the needs of students with or without undergraduate preparation in business or accounting. The MSA Program prepares students for the changing accounting profession of the new millennium. The MSA core courses provide students with a balanced, rigorous, and in-depth exposure to the building blocks for a well-educated accountant with an advanced degree in financial accounting, managerial accounting, auditing, income taxation, and research methodology. The program also requires students to take elective courses in accounting and non-accounting fields so that graduates from the program can become an integral part of the business world's information management team and be able to make decisions in a multi-disciplinary business environment. The pedagogical approach throughout the program emphasizes analysis, critical thinking, life-long learning skills, team work, interpersonal and communications skills, leadership ability, and cultural awareness. These are the competencies needed by those who must compete in the global business environment. In addition, **the program enables students to meet the 150 semester hours of course work requirement needed to take the CPA exam in the states which have enacted the legislation.**

MSA Program Requirements

A two-phase structure enables students from business and non-business backgrounds to progress conveniently toward degree completion with a minimum of redundant courses. Students with no prior education in business must complete both the Accounting Foundations and the Business Foundations as described under Phase I of the MSA program. Students with a prior education in business but not in accounting are required to show proficiency in the Accounting Foundations of Phase I through either course work or by passing a proficiency examination. No courses listed under Phase I can be counted in Phase II. Decisions regarding Phase I course waivers will be made by members of the MSA Admissions Committee at the time an admissions decision is reached.

Phase I - Foundations

Accounting Foundations

If a student's undergraduate degree is in business but not in accounting, the student is required to show proficiency in the following five accounting courses and in business calculus through either (a) competent course work, or (b) by passing a proficiency examination. These six Accounting Foundations are prerequisite courses. They are not part of the MSA degree and cannot be applied to the MSA degree. Students must first successfully complete these Accounting Foundations courses before full admission is granted to the MSA program and before they will be permitted to take Phase II courses.

DEPARTMENTS/ PROGRAMS

ACCOUNTING, BUSINESS LAW AND FINANCE

ACTG-301	Cost Accounting	3 cr.
ACTG-307	Auditing Theory and Problems	3 cr.
ACTG-310	Federal Income Tax (Individual)	3 cr.
ACTG-321	Intermediate Financial Accounting I	3 cr.
ACTG-322	Intermediate Financial Accounting II	3 cr.
MATH-111	Business Calculus	4 cr.
Total		19 cr.

Business Foundations

If a student's undergraduate degree is not in business, the student is required to fulfill the above Accounting Foundation requirements **plus** the following 18 hrs. of Business Foundation Courses. No courses listed under Phase I can be counted for credit in Phase II.

ACTG-400	Fundamentals of Accounting	4 cr.
BLAW-400	Legal Environment of Business	2 cr.
FINA-400	Fundamentals of Financial Management	2 cr.
ECON-401	Fundamentals of Business Economics	4 cr.
MKTG-400	Fundamentals of Marketing	2 cr.
MNGT-400	Managing Organizations	2 cr.
MNGT-401	Business Statistics	2 cr.
Total		18 cr.

Phase II: Accounting Core and Electives

After admission to the MSA program, all students are required to complete a minimum of 30 semester hours beyond the above requirements. All 30 semester hours of course work must be in graduate level courses.

Accounting Core (15 hours)

ACTG-407	Auditing Theory and Practice	3 cr.
ACTG-412	Accounting for Planning and Control	3 cr.
ACTG-421	Current Topics in Financial Accounting ...	3 cr.
ACTG-430	Research Methodology in Accounting	3 cr.
ACTG-440	Tax Research and Procedure	3 cr.
Total Accounting Core		15 cr.

Accounting Electives 6 cr.

Two electives from the following:

ACTG-406	Governmental and Not for Profit Accounting	3 cr.
ACTG-413	Advanced Management Accounting	3 cr.
ACTG-422	Financial Statement Analysis	3 cr.
ACTG-441	Estate, Gift and Trust Taxation	3 cr.
ACTG-451	Accounting Information Systems	3 cr.
ACTG-480	Issues in International Accounting and Multinational Business Operations	3 cr.
ACTG-500	Master's Project	3 cr.
COBM-414	Management Consulting	3 cr.

Non-Accounting Electives 9 cr.

(must be approved by the
MSA Program Coordinator)

Total Program Hours **30 cr.**

Chong-Tong Chen, Ph.D., C.P.A., C.M.A., Professor of
Accounting, Chair

Yass Alkafaji, D.B.A., C.P.A., Associate Professor of
Accounting

Nauzer Balsara, Ph.D., Associate Professor of Finance

Deepika Bugchee, B.A., Assistant Professor of Finance

Andy Chen, Ph.D., C.P.A., Assistant Professor of Accounting

Ring Chen, Ph.D., C.P.A., Assistant Professor of Accounting

Donald Geren, M.B.A., C.P.A., Associate Professor of

Accounting

Ruth Goran, M.S.A., C.P.A., Associate Professor of Accounting

Charas Kinkle, J.D., M.S.A., Associate Professor of Business

Law and Accounting

Thomas Krissek, M.B.A., C.P.A., Assistant Professor of

Accounting

Mostafa Maksy, Ph.D., C.P.A., Professor of Accounting

Phillip Neal, J.D., M.S.A., C.P.A., Assistant Professor of

Accounting and Business Law

Emmanuel Nyadroh, Ph.D., Assistant Professor of Accounting

Narendar Rao, Ph.D., Associate Professor of Finance

Robert W. Reinsch, J.D., Associate Professor

of Business Law

Rasoul Rezvanian, Ph.D., Professor of Finance

Varkey K. Titus, Ph.D., Professor of Finance, Dean

Myung-Ho Yoon, Ph.D., Associate Professor of Accounting

Lin Zheng, M.S.A., Assistant Professor of Accounting

Accounting is the language of business, and employees of small and large organizations must understand basic accounting principles. The knowledge of debits and credits, financial statements, and accounting information systems is basic for all business activities. Accounting majors must, of course, be well grounded in accounting theory and practice. Many accounting majors sit for the Uniformed Certified Public Accountant (C.P.A.) Examination and embark on meaningful careers in the public accounting field, and some seek to take the Certified Management Accountant (C.M.A.) Examination

Finance is the study of value. Using basic principles from the fields of accounting, economics, and statistics, finance involves analysis of financial institutions, financial markets, and financial concepts. Finance majors can emphasize the study of markets or the study of financial management practices. The financial services field has exploded with new kinds of products and services, creating a need for individuals to sell new financial and investment instruments and services

and to manage the entities which provide them. Banking, stock brokerage, commodities/futures/options trading, and financial planning and analysis are traditional areas where finance majors find employment. Frequently finance majors are sought for entry level positions in the allied fields of real estate and insurance.

It is important to understand the legal implications of key business decisions, as **business law** constitutes the protocols for managerial action. Business law courses offered at Northeastern are not a pre-law program and are not intended to be preparation for law school.

UNDERGRADUATE PROGRAMS

Major in Accounting for the Bachelor of Science Degree

Business and Management Core Courses 36 cr.
Required Courses 30 cr.

*ABF-ACTG-301 Cost Accounting I	3 cr.
ABF-ACTG-307 Auditing Theory and Problems	3 cr.
*ABF-ACTG-310 Federal Income Tax (Individual)	3 cr.
ABF-ACTG-321 Intermediate Financial Accounting I	3 cr.
*ABF-ACTG-322 Intermediate Financial Accounting II	3 cr.
*ABF-ACTG-324 Advanced Financial Accounting	3 cr.
*ABF-ACTG-325 Contemporary Financial Accounting Issues	3 cr.
ABF-BLAW-280 Business Law I	3 cr.
ABF-BLAW-281 Business Law II	3 cr.
MNGT-393 Strategic Management	3 cr.
Total	66 cr.

*These courses include an international component.

Recommended Professional Courses for Certification as a CPA, CMA, and CIA

Baccalaureate degree-holders who wish to prepare for professional certification examinations may register as students-at-large in selected courses in order to supplement previous academic work. Contact the Chair of the Department of Accounting, Business Law and Finance for information and course enrollment authorization. Recommended professional certification courses include:

ABF-ACTG-306 Accounting for Non-Profit Organizations	
ABF-ACTG-311 Federal Income Tax (Corporate)	
ABF-ACTG-312 Cost Accounting II	

Major in Finance for the Bachelor of Science Degree

Business and Management Core Courses 36 cr.
Required Courses 15 cr.

ABF-FINA-362 Investment	3 cr.
ABF-FINA-366 Financial Institutions and Markets	3 cr.
ABF-FINA-371 International Financial Management	3 cr.

ABF-FINA-373 Intermediate Financial Management	3 cr.
MNGT-393 Strategic Management	3 cr.

Three Courses from the following list: 9 cr.

ABF-FINA-363 Security Analysis	3 cr.
ABF-FINA-364 Problems in Business Finance	3 cr.
ABF-FINA-367 Short-Term Financial Management	3 cr.
ABF-FINA-368 Financial Management of Financial Institutions	3 cr.
ABF-FINA-369 Speculative Markets	3 cr.
ABF-FINA-370 Option Pricing: Theory and Strategy Applications	3 cr.
ABF-FINA-372 Portfolio Management	3 cr.
ABF-FINA-374 Future Trading Strategy	3 cr.
ABF-FINA-375 Debt Markets and Portfolio Strategy	3 cr.
ABF-FINA-376 Technical Analysis of Future Markets	3 cr.
ABF-FINA-377 Real Estate Finance	3 cr.
ABF-FINA-378 Introduction to Risk Management and Insurance	3 cr.
ABF-ACTG-310 Federal Income Tax (Individual)	3 cr.
ABF-ACTG-311 Federal Income Tax (Corporate)	3 cr.

Total 60 cr.

Minor in Accounting

This minor provides the background for professional entry level positions in accounting.

Required Courses 15 cr.

ABF-ACTG-301 Cost Accounting I	3 cr.
ABF-ACTG-307 Auditing Theory and Problems	3 cr.
ABF-ACTG-310 Federal Income Tax (Individual)	3 cr.
ABF-ACTG-321 Intermediate Financial Accounting I	3 cr.
ABF-ACTG-322 Intermediate Financial Accounting II	3 cr.

Two courses from the following 6 cr.

ABF-ACTG-306 Accounting for Non-Profit Organizations	3 cr.
ABF-ACTG-311 Federal Income Tax (Corporate)	3 cr.
ABF-ACTG-312 Cost Accounting II	3 cr.
ABF-ACTG-324 Advanced Financial Accounting	3 cr.
ABF-ACTG-325 Contemporary Financial Accounting Issues	3 cr.

Total 21 cr.

Minor in Finance

This minor provides an introduction to finance for students interested in the financial aspects of organizations.

Required Courses 15 cr.

ABF-FINA-360 Principles of Financial Management I	3 cr.
ABF-FINA-362 Investment	3 cr.
ABF-FINA-363 Security Analysis	3 cr.
ABF-FINA-366 Financial Institutions and Markets	3 cr.
ABF-FINA-373 Intermediate Financial Management	3 cr.

Two courses from the following:	6 cr.
ABF-FINA-364 Problems in Business Finance	3 cr.
ABF-FINA-367 Short-term Financial Management	3 cr.
ABF-FINA-368 Financial Management of Financial Institutions	3 cr.
ABF-FINA-369 Speculative Markets	3 cr.
ABF-FINA-370 Option Pricing: Theory and Strategic Applications	3 cr.
ABF-FINA-371 International Financial Management	3 cr.
ABF-FINA-372 Portfolio Management	3 cr.
ABF-FINA-374 Futures Trading Strategies	3 cr.
ABF-FINA-375 Debt Markets and Portfolio Strategies	3 cr.
ABF-FINA-376 Technical Analysis of the Futures Markets	3 cr.
ABF-FINA-377 Real Estate Finance	3 cr.
ABT-FINA-378 Introduction to Risk Management and Insurance	3 cr.
Total	21 cr.

COURSE OFFERINGS

A note on prerequisites for undergraduate courses: Prerequisites are cumulative, i.e., some prerequisites have prerequisites of their own that must also be successfully completed.

A note on prerequisites for graduate courses: Access to all graduate business courses requires admission to the MBA and/or MSA programs, and access to all Phase II Advanced Graduate Business Core Courses and Concentration courses requires completion of the Phase I Foundation Courses.

COBM-385 Advanced Topics in Business, Topic Varies, 3 cr. A cross-disciplinary, topic varies, undergraduate course designed to examine leading-edge topics in business. *Prereq.:* Declared business major or minor and consent of Chairperson and COBM Dean.

COBM-414 Management Consulting, 3 cr. The philosophy, concepts, techniques and processes underlying management consulting practice in business and other operations. Topics include client's problem identification, proposal development, data collection and analysis, and communicating to the client appropriate solution and implementation recommendations. Project management and interpersonal skills needed to be a successful management consultant, as well as ethical issues of the management consulting profession, will also be addressed. Case studies, software tools and guest lecturers will be used in the course. *Prereq.:* Completion of all Phase I courses or equivalent plus a minimum of nine credit hours of Phase II courses, which must include MNGT-402 or ABF-ACTG-430.

COBM-485 Advanced Topics in Business, Topic Varies, 3 cr. A cross-disciplinary, topic varies, graduate course designed to examine leading-edge topics in business. *Prereq.:* Graduate standing and consent of Chairperson and COBM Dean.

ACCOUNTING

ABF-350 Management Information Systems, 3 cr. This course centers on the use of information systems (especially computer based) to provide information on which business decisions are made. Particular emphasis is placed on the system user's role in project development, implementation and success. *Prereq.:* All Foundation Courses including ABF-ACTG-202;.

ABF-ACTG-201 Introduction to Financial Accounting, 3 cr. Accounting is a process for measurement of business activity. This course introduces the underlying assumptions of accounting as they pertain to sole-proprietorship: recording and reporting of transactions, preparation and interpretation of financial statements. *Prereq.:* MATH-110 and MATH-111 (may be taken concurrently).

ABF-ACTG-202 Introduction to Managerial Accounting, 3 cr. This course focuses on managerial accounting. It emphasizes the use of accounting information for management planning and control decisions. *Prereq.:* MATH-110 and MATH-111 and ABF-ACTG-201.

ABF-ACTG-301 Cost Accounting I, 3 cr. The course expands upon the study of accounting information used to value products for inventory, needed by management to plan and control operations. Topics include job order and process cost accounting systems, standard costs and variance analysis, flexible budgeting, direct costing and break-even analysis. *Prereq.:* All Foundation Courses including ABF-ACTG-202;.

ABF-ACTG-306 Accounting for Non-Profit Organizations, 3 cr. A study of the special techniques employed in recording and reporting financial data of non-profit governmental units and private non-profit organizations. *Prereq.:* ABF-ACTG-322.

ABF-ACTG-307 Auditing Theory and Problems, 3 cr. Auditing contributes to the reliability of financial and other data. This course, comprised of theory and philosophy of auditing, makes it an essential part of an accountant's knowledge. Topics include standards-general, field work and reporting, evidential matter, review of internal control, auditing techniques, practices, problem-solving, and a study of A.I.C.P.A. industry audit guides. *Prereq.:* ABF-ACTG-322.

ABF-ACTG-308 Advanced Auditing, 3 cr. This course enhances the students understanding of auditing principles. Included is a detailed study of statements of auditing standard, evidential matter, techniques, problem solving, and a study of AICPA industry audit guidelines. *Prereq.:* ABF-ACTG-307.

ABF-ACTG-310 Federal Income Tax (Individual), 3 cr. Fundamentals of tax accounting and reporting with emphasis on individuals. Topics include gross income and exclusions, deductions to arrive at and deductions from gross income, gain or loss recognition, basis, capital gains and losses, credits and administration. *Prereq.:* All Foundation Courses including ABF-ACTG-202;.

ABF-ACTG-311 Federal Income Tax (Corporate), 3 cr. Advanced development of topics discussed in the first tax course. Additional topics include matters specifically applicable to partnerships, corporations, and basic introductions to estate and gift taxes. Tax research techniques are also developed in the subject. *Prereq.:* ABF-ACTG-310.

ABF-ACTG-312 Cost Accounting II, 3 cr. This course is a logical continuation of the prerequisite course with even greater emphasis on accounting information used for management planning and control. Topics include division performance measurement, transfer pricing, and application of quantitative techniques to cost accounting. *Prereq.: ABF-ACTG-301.*

ABF-ACTG-313 Internal Auditing and Management Control, 3 cr. Internal auditing is an independent appraisal activity within an organization for the review of operations aimed at promoting its efficiency and effectiveness. This course explores the concepts and standards of internal auditing and their applications. Topics include the discussion of the nature and environment of internal auditing, disciplines related to internal auditing, internal auditing process and the organization and administration of an internal auditing department. *Prereq.: ABF-ACTG 307 and ABF 350.*

ABF-ACTG-321 Intermediate Financial Accounting I, 3 cr. This course begins the three-course professional financial accounting sequence. This is a comprehensive study of the theory and practice of public accounting and the pronouncements of the Financial Accounting Standards Board. This course emphasizes theory, working capital and long term assets. *Prereq.: All Foundation Courses including ABF-ACTG-202.*

ABF-ACTG-322 Intermediate Financial Accounting II, 3 cr. This is the second course in the professional financial accounting sequence. This course emphasizes long-term liabilities, equity, revenue recognition and the statement of changes. *Prereq.: ABF-ACTG-321.*

ABF-ACTG-324 Advanced Financial Accounting , 3 cr. This is the third course in the professional financial accounting sequence. This course emphasizes multi-national and domestic consolidations. *Prereq.: ABF-ACTG-322.*

ABF-ACTG 325 Contemporary Financial Accounting Issues, 3 cr. The course covers an in-depth investigation of contemporary accounting issues and problems, including analysis and evaluation of most recent accounting pronouncements and articles in major accounting journals. *Prereq.: ABF-ACTG-322.*

ABF-ACTG-380 International Accounting, 3 cr. This course is concerned with an examination of the environmental factors affecting accounting concepts and standards. Differences in the cultural, social, political, legal and economic environment are the determining factors in the selection of accounting concepts and standards. Coverage will include country and regional studies and accounting problems related to multinational businesses such as foreign currency translation. *Prereq.: ABF-ACTG 322.*

ABF-ACTG-382 Internship in Accounting, 3-6 cr. *Prereq.: consent of Chairperson and Dean's Office.*

ABF-ACTG-386 Independent Study in Accounting, 1-3 cr. *Prereq.: Consent of Chairperson and Dean's Office.*

ABF-ACTG-400 Fundamentals of Accounting, 4 cr. This course is designed for graduate students with no prior knowledge of accounting. Students will study and obtain an

overall fundamental understanding and appreciation of the use of accounting information for making business decisions. This is a condensed, fast-paced course that addresses the topics of financial accounting for external reporting and managerial accounting for internal planning, control, and decision-making of business operations. *Prereq.: graduate standing.*

ABF-ACTG-402 Managerial Accounting, 3 cr. This course focuses on accounting methods applicable to the accumulation and analysis of financial data relevant to managerial decision making problems. Topics include cost behavior, budgeting, cost allocation, cost accounting systems and capital budgeting. *Prereq.: ABF-ACTG-400 or equivalent and graduate standing.*

ABF-ACTG-403 Management of Information Systems and Technology, 3 cr. This course examines two major and related concepts: the management of information and the management of technology. Principles underlying the acquisition, application, and management of technology are considered, including economic justification for buying or replacing technologies. Special attention is given to management information systems (MIS) and to information technology (IT) applications which support managerial decision-making and enhance organizational competitiveness. Relevant business cases are studied to reinforce conceptual learning. *Prereq.: ABF-ACTG-400 or equivalent and graduate standing.*

ABF-ACTG-406 Governmental and Not-for-Profit Accounting, 3 cr. This course is designed to introduce students to the requirements of accounting for not-for-profit an federal, state, and local governmental entities. These entities are required to follow the pronouncements of either the Financial Accounting Standard Board or the Government Accounting Standards Board. The financial accounting and reporting concepts, standards and procedures applicable to federal, state, and local governmental entities and not-for-profit organizations will be discussed. *Prereq.: ABF-ACTG-400 or equivalent and graduate standing.*

ABF-ACTG-407 Auditing Theory and Practice, 3 cr. Integrates accounting standards, accounting systems, internal control structures and the dual auditing functions of obtaining and evaluating evidence - all within the context of a professional environment. *Prereq.: ABF-ACTG 421 or equivalent and graduate standing.*

ABF-ACTG-410 Seminar in Tax Planning, 3 cr. This course focuses on a managerial approach to taxation through emphasis on major provisions of the income tax law and related administrative and judicial rulings as they affect business transactions. This course also includes consideration for the tax structure and its role as a tool for business planning. *Prereq.: ABF-ACTG-400 or equivalent and graduate standing.*

ABF-ACTG-412 Accounting for Planning and Control, 3 cr. This course provides for systematic and in-depth discussion and analysis of various accounting models which are useful to organizational planning and control, including the role of accounting systems in developing and refining data necessary for cost and managerial planning. *Prereq.: ABF-ACTG-400 or equivalent and graduate standing.*

ABF-ACTG-413 Advanced Management Accounting, 3cr.

Covers various analytical models of management accounting, information economics, incentive contracting, cost and performance assessment, agency theory, behavior aspects of management accounting and other current issues in management accounting research. *Prereq.:* ABF-ACTG-412 or equivalent and graduate standing.

ABF-ACTG-421 Current Topics in Financial Accounting, 3 cr. This course provides a conceptual framework for current issues in financial accounting measurement and reporting, and valuation of assets, liabilities and income determination and other necessary disclosures of financial information. *Prereq.:* ABF-ACTG-400 and graduate standing.

ABF-ACTG-422 Financial Statement Analysis, 3 cr. Provides a thorough understanding of the accounting models, the language, the meaning, the significance and the limitations of the public corporate financial statements. Means of mastering the tools of financial analysis and tools to identify the significant financial and operating factors for the purpose of reaching informed lending, investment and other decisions. *Prereq.:* ABF-ACTG-421 or equivalent and graduate standing.

ABF-ACTG-430 Research Methodology in Accounting, 3 cr. Provides a thorough understanding of research methodologies in accounting. The approach is to take a central research question and pursue its dimensions which include: importance of the question posed, the research design to evaluate that question, threats to the credibility of potential inferences drawn, research types that could be applied to the same question, and challenges in communication and interpretation. *Prereq.:* ABF-ACTG-400 or equivalent and graduate standing.

ABF-ACTG-440 Tax Research and Procedure, 3 cr. The purpose and methods of conducting tax research and communicating tax research conclusions. The course will focus on Internal Revenue practice and procedures. Tax policy, issues in taxpayer compliance, and taxpayer and tax preparer responsibilities will also be addressed. *Prereq.:* ABF-ACTG-410 or equivalent and graduate standing.

ABF-ACTG-441 Estate, Gift and Trust Taxation, 3 cr. Current laws, cases, rulings, and regulations useful for estate planning purposes are discussed. Topics include estate valuation, gift planning, estate planning and trusts, life insurance, joint tenancy, powers of appointment, pre-marital and marital dissolution agreements, community property, and generation-skipping transfer tax. Planning for estate tax minimization will be emphasized. *Prereq.:* ABF-ACTG-410 or equivalent and graduate standing.

ABF-ACTG 451 Accounting Information Systems, 3cr. An in-depth coverage of the concepts and techniques underlying the development, use and control of both manual and computerized accounting information systems. Focus is on the understanding and evaluation of accounting information and accounting information systems, and the understanding of the theory and practice of internal control. Particular emphasis will be placed on the cost and benefit of accounting information and the strengths and weaknesses of accounting

information systems using current technology. *Prereq.:* ABF-ACTG-402 and ABF-ACTG-403 or equivalent and graduate standing.

ABF-ACTG 480 Issues in International Accounting and Multinational Business Operations, 3 cr. In-depth discussion of accounting issues and problems faced by companies with multinational operations. Topics include issues related to foreign currency translator, consolidation of foreign subsidiaries, foreign investment, international transfer pricing, analysis of foreign investment. Issues in the ethical conduct of multinational operations and in the Foreign Corrupt Practices Act will also be discussed. *Prereq.:* ABF-ACTG-421 or equivalent and graduate standing.

ABF-ACTG-500 Master's Project, 3 cr. Approval of major advisor is necessary.

ABF-ACTG-501 Master's Thesis, 3 cr. Approval of major advisor is necessary.

BUSINESS LAW

ABF-BLAW-280 Business Law I, 3 cr. The study of the law of contracts, including mutual assent, consideration, legality, capacity, statute of frauds, third parties, performance, breach, discharge, and remedies; UCC sales, including transfer of title, risk of loss, bulk sales, product liability and strict liability. *Prereq.:* 30 credit hours of college work.

ABF-BLAW-281 Business Law II, 3 cr. Continuation of BLAW 280 and covers: Agency, partnerships, corporations and UCC commercial paper. The rights and liabilities of corporate and partnership forms of business organization are covered. Negotiation, warranties, holder in due course, bank items are covered as part of UCC commercial paper. *Prereq.:* ABF-BLAW-280.

ABF-BLAW-285 The Legal Environment of Business, 3 cr. A study of governmental regulation of the conduct of business. Topics include sources of authority, the Constitution and Bill of Rights, administrative agencies, litigation and arbitration as means of resolving disputes, anti-trust laws, mergers and acquisitions, securities regulations, employment and labor management regulations, environmental regulations, product liability, consumer protection, torts and ethics. *Prereq.:* 30 credit hours of college work.

ABF-BLAW-382 Business Law III, 3 cr. Study of bailments, personal and real property, trust and wills, insurance, debtor and creditor relations, regulation of business, including: antitrust, securities regulations and accountants' legal liability. *Prereq.:* ABF-BLAW-280.

ABF-BLAW-400 Legal Environment of Business, 2 cr. This course centers on the American legal system as one sphere of influence in the business operations of an organization. Topics include anti-trust laws, mergers and acquisitions, securities regulations, equal employment, and labor management regulations, product liability, and consumer protection. Litigation and arbitration as methods for resolving disputes are also covered. The social responsibilities, ethical concerns, and dilemmas of the organization's manager are stressed as part of the practical decision making environment. *Prereq.:* graduate standing.

FINANCE

ABF-FINA-360 Principles of Financial Management I, 3 cr. This course is a study of the effect of the theory of valuation on decision making within the firm. Topics include capital budgeting, leverage, dividend theory, and present value. *Prereq.: All Foundation Courses completed.*

ABF-FINA-362 Investment, 3 cr. An introduction to financial markets. Particular emphasis is placed on valuation and the characteristics of different financial assets. *Prereq.: ABF-FINA-360.*

ABF-FINA-363 Security Analysis, 3 cr. This course analyzes the factors affecting the market valuation of securities utilizing fundamental analysis and modern portfolio theory. *Prereq.: ABF-FINA 360.*

ABF-FINA-364 Problems in Business Finance, 3 cr. This course, employing the case method, is designed to help the student through problem-solving as well as learning skills for making financial decisions for corporations. *Prereq.: ABF-FINA-360 and senior status.*

ABF-FINA-365 Personal Financial Planning, 3 cr. This course is a broad-based introduction to a wide range of personal financial topics including investments, real estate, insurance, and retirement planning. It will provide the informational and decision-making tools needed for successfully implementing a personal financial plan. *Prereq.: MATH-110.*

ABF-FINA-366 Financial Institutions and Markets, 3 cr. This course provides an integrated view of the concepts and principles of financial flows in the economy. The role of intermediation and interest rates is stressed. *Prereq.: ABF-FINA-360.*

ABF-FINA-367 Short-term Financial Management, 3 cr. The subject matter of the course includes a detailed study of the short-term assets and liabilities on a corporate balance sheet. It also develops skills useful to a bank loan officer, a credit analyst, a cash manager, or personnel on the corporate treasurer's staff. *Prereq.: ABF-FINA-360.*

ABF-FINA-368 Financial Management of Financial Institutions, 3 cr. The objective of this course is to expose the student to the techniques of financial management employed by the financial institutions and other financial intermediaries. The course emphasizes the use of tools for decision making within a financial institutional framework which is in a state of transition. *Prereq.: ABF-FINA-360*

ABF-FINA-369 Speculative Markets, 3 cr. This course reviews the principles and mechanics of the major speculative financial instruments: commodities, financial futures and options. Particular emphasis is placed on pricing theories and trading strategies. The role of risk transfer as an economic good is discussed. The student is expected to complete a project involving simulated trading. *Prereq.: ABF-FINA-360.*

ABF-FINA-370 Option Pricing: Theory and Strategic Applications, 3 cr. The course is designed to familiarize students with the theoretical foundations of options pricing. This knowledge is then used to design strategies for profiting from mispriced options. Mathematical complexity will be kept to a minimum. The use of personal computers as decision-making aids will be strongly emphasized. *Prereq.: ABF-FINA-360.*

ABF-FINA-371 International Financial Management, 3 cr. The course focuses on the international aspects of finance management. Particular emphasis is placed on the control of exchange rate risk and financing multinational corporations. *Prereq.: ABF-FINA-360.*

ABF-FINA-372 Portfolio Management, 3 cr. The course covers the theory and the techniques of portfolio management. Particular emphasis is placed on definition of objectives for and the construction of portfolios. This course prepares the student for the first CFA exam. *Prereq.: ABF-FINA-360 and MNGT-368.*

ABF-FINA-373 Intermediate Financial Management, 3 cr. This course is an extension of FINA 360. It seeks to build upon the theoretical framework developed in FINA 360, enabling students to acquire new conceptual and applied knowledge of corporate finance. The course covers, among other topics, advanced issues in capital budgeting, optimal capital structure theory, debt policy, dividend policy, buy versus lease decisions, current asset management, mergers, bankruptcies and reorganizations. Students are expected to have familiarity with a spreadsheet package.

ABF-FINA-374 Futures Trading Strategies, 3 cr. The course is designed to emphasize the practical, rather than the theoretical aspects of futures markets. Students will be exposed to both technical and fundamental approaches to trading, and to disciplined money management techniques. *Prereq.: ABF-FINA-360.*

ABF-FINA-375 Debt Markets and Portfolio Strategies, 3 cr. The first part of the course is designed to introduce students to some of the very recent innovations in the fixed-income securities market, as for example, zero coupon bonds, floating rate notes and convertible issues. The next segment familiarizes students with portfolio management considerations unique to debt instruments. Mathematical complexity, though inevitable, will be kept to a minimum. *Prereq.: ABF-FINA-360.*

ABF-FINA-376 Technical Analysis of the Futures Markets, 3 cr. This course will enable students to read and interpret futures price charts. Technical analysis (as opposed to fundamental analysis) stresses the information content of part and price data and is based on the premise that prices do not always move randomly. Students believing in this underlying philosophy ought to benefit from this course. *Prereq.: ABF-FINA-360.*

ABF-FINA-377 Real Estate Finance, 3 cr. The primary objective of this course is to provide an overview of real estate finance. This course involves an exploration of the characteristics, institutions, and markets through which financing of real estate occurs. This course focuses on the dynamic changes that have occurred in the real estate field in the past few years and also assesses the impact that these changes have had on both the availability and costs of mortgage debt and the risks associated with its use. *Prereq.: ABF-FINA-360.*

ABF-FINA-378 Introduction to Risk Management and Insurance, 3 cr. The individual, family, business entity, and society are all exposed to accidental loss events that may have a significant bearing on their financial security. Risk management is the process of identifying, analyzing, controlling, financing, and monitoring these loss exposures. The primary focus of this introductory course is to provide an understanding of the various risks that businesses and individuals are exposed to and the alternative methods that are available to manage these risks. *Prereq.: ABF-FINA-360.*

ABF-FINA-382 Internship in Finance, 3-6 cr. *Prereq.: consent of Chairperson and Dean's Office.*

ABF-FINA-395 Independent Study in Finance, 1-3 cr. *Prereq.: consent of Chairperson and Dean's Office.*

ABF-FINA-400 Fundamentals of Financial Management, 2 cr. This course centers on corporate financial management, providing students with an overview of essential financial concepts such as time value of money, the relation between risk and return, stock valuation, bond valuation, and the analysis of corporate financial performance. *Prereq.: ABF-ACTG-400 or equivalent and graduate standing.*

ABF-FINA-402 Issues in Corporate Finance, 3 cr. This course builds upon the theory of modern corporate finance covered in Fundamentals of Financial Management (ABF-FINA 400). Concepts addressed include: cost of capital and optimal structures; the role of dividends in corporate evaluations; using options and features in hedging financial risk; leasing; mergers and acquisitions, and the basics of international financial management. *Prereq.: ABF-FINA 400 or equivalent and graduate standing.*

ABF-FINA-462 Investment Strategies, 3 cr. This course focuses on the practical use of the techniques of modern finance in managing pension/endowment funds. Students will be exposed to the foundations of modern portfolio theory and will be required to develop a plan for inventing a significant amount of pension fund assets. *Prereq.: ABF-FINA-400 or equivalent and graduate standing.*

ABF-FINA-470 Corporate Financial Strategy, 3 cr. Corporate financial strategy in practice is emphasized in this course. Topics to be discussed include: (a) financial planning, (b) strategies for raising capital, (c) strategies for allocating capital among different uses, and (d) strategies for working capital management. *Prereq.: ABF-FINA-400 or equivalent and graduate standing.*

ABF-FINA-471 International Financial Management, 3 cr. This course emphasizes the theoretical concepts of international banking and finance together with their practical ramifications. Case-studies will be used to reinforce concepts discussed in the textbook. *Prereq.: ABF-FINA-400 or equivalent and graduate standing.*

ABF-FINA-474 Seminar on Futures and Options Markets, 3 cr. This seminar provides a rigorous treatment of the commodity/financial and options markets. Emphasis is placed on the theory underlying futures/options instruments. However, the course is a practical, problem-solving approach

to market-generated challenges, and will concentrate primarily on advanced trading and hedging techniques. *Prereq.: ABF-FINA-400 or equivalent and graduate standing.*

ABF-FINA-475 Management of Financial Institutions, 3 cr. This course focuses on the application of traditional finance concepts to the management of commercial banks and other depository intermediaries, which are part of the Financial Services Industry, operating in domestic and international markets. *Prereq.: ABF-FINA-400 or equivalent and graduate standing.*

ABF-FINA-500 Master's Project, 3 cr. Approval of major advisor is necessary.

ABF-FINA-501 Master's Thesis, 3 cr. Approval of major advisor is necessary.

MANAGEMENT and MARKETING

Hamid Akbari, Ph.D., Associate Professor
of Management, Chair

Rasoul Afifi, Ph.D., Associate Professor of Management
Mei-Lung Chen, Ph.D., Assistant Professor of Management
Ikechi Ekeledo, Ph.D., Assistant Professor of Marketing
James E. Hazeltine, D.B.A., Associate Professor of Marketing,
Associate Dean

Amy Hietapelto, Ph.D., Assistant Professor of Management
H. Durward Hoffer, Ph.D., Professor of Management
Jianwen Liao, D.B.A., Assistant Professor of Management
Constantine Loucopoulos, Ph.D., Associate Professor
of Management

Anil Pandya, F.I.I.M., Associate Professor of Marketing
Allen N. Shub, Ph.D., Professor of Management
Peter W. Stonebraker, Ph.D., Professor of Management
D.S. Sundaram, D.B.A., Assistant Professor of Marketing

Management is the art and science of managing and leading people, organizations and businesses. The central function of management is to create and maintain a productive and constructive environment for reaching organizational goals in an effective and efficient way. Majors will learn the theory and practice of management by studying organizations, entrepreneurship, production and operations management, international business and management, leadership, human resource management, management of change, and many other related topics as they pertain to the management of all sizes of organizations in both for profit and non-profit sectors. Management preparation can be applied in many areas; therefore, students majoring in this field may find jobs in a variety of industries and organizations. Examples include: human resource management specialists, production and inventory control specialists, quality assurance analysts, production planners, unit managers, and management trainees in a number of organizations.

Marketing is an essential function in any business; it deals with the strategic and tactical planning activities of organizations which develop, price, promote, and distribute goods and services aimed at meeting the needs of customers through

commercial exchanges. The marketing courses are designed to provide students with a foundation of marketing theory and practice in manufacturing and service organizations in both for profit and non-profit sectors. Students majoring in marketing can choose from a variety of career areas. Examples include: personal selling, retail management, distribution planning, customer service, advertising/sales promotion, product/brand management, telemarketing, and franchise unit management.

UNDERGRADUATE PROGRAMS

Major in Management for the Bachelor of Science Degree

Business and Management Core Courses 36 cr.

Required Courses 12 cr.

- MNGT-371 Organizational Behavior 3 cr.
- MNGT-372 Organization Theory and Design 3 cr.
- MNGT-381 International Business and Management ... 3 cr.
- MNGT-393 Strategic Management 3 cr.

Four electives from the following: 12 cr.

- MNGT-353 Design and Control of
Production Systems 3 cr.
- MNGT-354 Logistics Management 3 cr.
- MNGT-355 Materials Management 3 cr.
- MNGT-356 Forecasting Methods of
Management 3 cr.
- MNGT-357 Purchasing Management 3 cr.
- MNGT-358 Quality Management 3 cr.
- MNGT-359 Advances in
Production/Operations Management 3 cr.
- MNGT-360 Operations Strategy 3 cr.
- MNGT-369 Advanced Quantitative Methods for
Managerial Decision Making 3 cr.
- MNGT-373 Personnel Administration 3 cr.
- MNGT-374 Human Resource Planning 3 cr.
- MNGT-375 Management and Organization
Communications 3 cr.
- MNGT-376 Small Business Management 3 cr.
- MNGT-378 Women in Management 3 cr.
- MNGT-380 Entrepreneurship 3 cr.
- MNGT-389 Training: A Managerial Perspective 3 cr.
- MNGT-390 Compensation Management and
Performance Appraisal 3 cr.
- MNGT-392 Business, Technology and Society 3 cr.
- MNGT-396 Industrial and Labor Relations and
Collective Bargaining 3 cr.
- MNGT-399 Management of Change 3 cr.
- *MKTG-353 Marketing Research 3 cr.
- *MKTG-354 Personal Selling 3 cr.
- *MKTG-357 Sales Management 3 cr.
- *MKTG-360 Marketing Channels 3 cr.

Total 60 cr.

* Up to two non-Management courses, as indicated by an asterisk (*), can be applied as electives towards the Major in Management for the Bachelor of Science Degree.

Major in Marketing for the Bachelor of Science Degree

Business and Management Core Courses 36 cr.

Required Courses 15 cr.

- MKTG-351 Consumer Behavior 3 cr.
- MKTG-353 Marketing Research 3 cr.
- MKTG-358 International Marketing 3 cr.
- MKTG-359 Marketing Management 3 cr.
- MNGT-393 Strategic Management 3 cr.

Three electives from the following: 9 cr.

- MKTG-352 Advertising 3 cr.
- MKTG-354 Personal Selling 3 cr.
- MKTG-355 Electronic Commerce 3 cr.
- MKTG-356 Retail Management 3 cr.
- MKTG-357 Sales Management 3 cr.
- MKTG-360 Marketing Channels 3 cr.
- MKTG-365 Advanced Topics in Promotion 3 cr.
- MKTG-366 Business to Business Marketing 3 cr.
- *MNGT-378 Women in Management 3 cr.
- *MNGT-354 Logistics Management 3 cr.
- *MNGT-356 Forecasting Methods 3 cr.
- *MNGT-357 Purchasing Management 3 cr.
- *MNGT-380 Entrepreneurship 3 cr.
- *MNGT-399 Management of Change 3 cr.
- *G&ES-350 Marketing Geography 3 cr.

Total 60 cr.

Up to two non-Marketing courses, as indicated by an asterisk (), can be applied as electives towards the Major in Management for the Bachelor of Science Degree.

Major in General Business Administration for the Bachelor of Science Degree

The General Business Administration program trains business generalists. While General Business majors learn about different functional areas of business, including Management, Marketing, Accounting and Finance, they do not specialize in any particular area. This program is most suitable for those students who may not have strong interest in any particular area of business, and who may wish to start or work in a small or medium-sized enterprise where employees and managers will be required to exhibit a broad range of business competencies. Students can qualify for a variety of jobs in many sectors of business because of their broad based preparation in general business. This preparation is especially suitable for those who want to be entrepreneurs, starting or managing small to medium-sized businesses. The General Business Administration major has two options.

Option I-Business Administration for Second Majors

This program is designed for students who wish to combine coursework in a non-business discipline with a solid foundation in business administration. Students with an interest in International Business may use this option in conjunction with a major in the Foreign Languages Department. Other

combinations of double majors with this option are possible, such as Computer Science, Anthropology, and Political Science. Students in this option must fulfill the complete College of Business Core Curriculum, along with twelve other credit hours in Business. An outline of this option is as follows:

Business and Management Core Courses	36 cr.
Required Courses	3 cr.
MNGT-393 Strategic Management	3 cr.
Total	3 cr.
Choose one of the following	3 cr.
MKTG-358 International Marketing	3 cr.
MNGT-381 International Management	3 cr.
Approved Elective	3 cr.
Choose two courses from one area	6 cr.
Management, Marketing, Finance, Accounting	
Total for Option I	48 cr.

Option 2 - General Business Administration

Business and Management Core Courses	36 cr.
Required Courses	3 cr.
MNGT-393 Strategic Management	3 cr.

***Select One 300-Level Course from each of the following business disciplines (beyond the Core)**

ACCOUNTING	3 cr.
FINANCE	3 cr.
MARKETING	3 cr.
MANAGEMENT	3 cr.

***Select Three 300-Level Business Courses from any combination of business disciplines**

	9 cr.
Total for Option II	60 cr.

* Excludes MNGT-393 and 300-level core courses listed above.

Minor in Management

This minor is designed for students interested in entry-level management positions and/or general managerial careers in business organizations.

Required Courses	12 cr.
MNGT-370 Principles of Management	3 cr.
MNGT-371 Organizational Behavior	3 cr.
MNGT-372 Organizational Theory & Design	3 cr.
MNGT-373 Personnel Administration	3 cr.
* Three additional management electives	9 cr.
Total	21 cr.

*See the list of Management Electives under the Management Major.

Minor in Marketing

This program is for students interested in a marketing minor to complement a major discipline such as another field of business, psychology, foreign language, computer science, etc.

Required Courses	9 cr.
MKTG-350 Principles of Marketing	3 cr.
MKTG-351 Consumer Behavior	3 cr.
MKTG-359 Marketing Management	3 cr.
One of the following:	3 cr.
MKTG-352 Advertising	3 cr.
MKTG-357 Sales Management	3 cr.
Three of the following:	9 cr.
*MKTG-352 Advertising	3 cr.
MKTG-353 Marketing Research	3 cr.
MKTG-354 Personal Selling	3 cr.
MKTG-356 Retail Management	3 cr.
*MKTG-357 Sales Management	3 cr.
MKTG-358 International Marketing	3 cr.
MKTG-360 Marketing Channels	3 cr.
MKTG-365 Advanced Topics in Promotion	3 cr.
MKTG-366 Business to Business Marketing	3 cr.
Total	21 cr.

*Can only count once in Marketing minor.

Minor in International Business

The International Business Minor is intended for majors in business who are interested in working in organizations with international links.

The International Business Minor can have a Marketing/Management focus or an Accounting/Finance focus. The requirements for each are:

International Business—Marketing/Management Focus

Required Courses	12 cr.
MKTG-358 International Marketing	3 cr.
MNGT-381 International Business and Management ...	3 cr.
*Approved Elective	3 cr.
*Approved Elective	3 cr.
Three courses from the following:	9 cr.
ABF-ACTG-380 International Accounting	3 cr.
ABF-FINA-371 International Financial Management	3 cr.
ECON-322 International Economics	3 cr.
ANTH-243 Culture and International Business	3 cr.
G&ES-350 Marketing Geography	3 cr.
Total	21 cr.

International Business—Accounting/Finance Focus

Required Courses	9 cr.
ABF-ACTG-380 International Accounting	3 cr.
ABF-FINA-371 International Financial Management	3 cr.
*Approved Elective	3 cr.
Four courses from the following:	12 cr.
MKTG-358 International Marketing	3 cr.
MNGT-381 International Business and Management ...	3 cr.
ANTH-243 Culture and International Business	3 cr.
*Approved Elective	3 cr.
Total	21 cr.

* Interested students should contact the chairperson for appropriate course selection.

COURSE OFFERINGS

A note on prerequisites for undergraduate courses: Prerequisites are cumulative, i.e., some prerequisites have prerequisites of their own that must also be successfully completed.

A note on prerequisites for graduate courses: Access to all graduate business courses requires admission to the MBA and/or MSA programs, and access to all Phase II Advanced Graduate Business Core Courses and Concentration courses requires completion of the Phase I Foundation Courses.

COBM-385 Advanced Topics in Business, Topic Varies, 3 cr. A cross-disciplinary, topic varies, undergraduate course designed to examine leading-edge topics in business. *Prereq.:*

Declared business major or minor and consent of Chairperson and COBM Dean.

COBM-414 Management Consulting, 3 cr. The philosophy, concepts, techniques and processes underlying management consulting practice in business and other operations. Topics include client’s problem identification, proposal development, data collection and analysis, and communicating to the client appropriate solution and implementation recommendations. Project management and interpersonal skills needed to be a successful management consultant, as well as ethical issues of the management consulting profession, will also be addressed. Case studies, software tools and guest lecturers will be used in the course. *Prereq.:* Completion of all Phase I courses or equivalent plus a minimum of nine credit hours of Phase II courses, which must include MNGT-402 or ABF-ACTG-430.

COBM-485 Advanced Topics in Business, Topic Varies, 3 cr. A cross-disciplinary, topic varies, graduate course designed to examine leading-edge topics in business. *Prereq.:* Graduate standing and consent of Chairperson and COBM Dean.

MANAGEMENT

MNGT-201 Business and the Free Enterprise System, 3 cr. Insight into the role of the free enterprise system in society and economy. Functions and operations of business firms are analyzed for career opportunities in business and industry. Recommended for intended business majors. Does not fulfill major or minor elective.

MNGT-353 Design and Control of Production Systems, 3 cr. An in-depth coverage of the function of production planning and control including such topics as forecasting, materials requirements, planning, capacity planning, master production scheduling, production activity planning, and control and project management. Application of advanced computer software for problem solving. *Prereq.:* MNGT-377.

MNGT-354 Logistics Management, 3 cr. Introduction to the business logistics environment. Detailed coverage of the use of concepts and quantitative techniques in facility location, distribution, warehousing, scheduling, order processing, storage, material handling and other logistics design and operating decisions. *Prereq:* MNGT-377.

MNGT-355 Materials Management, 3 cr. This course develops the relationship of purchasing, materials and distribution management through design of a production process to build a simple product using Materials Requirement Planning software and a microcomputer. This hands-on production systems approach emphasizes topics such as aggregate planning, master scheduling, materials requirements planning, capacity planning, production activity control and inventory planning and control. Through direct production management activities and decisions, the student develops an appreciation of these vital and future directions of manufacturing management. *Prereq:* MNGT-377.

MNGT-356 Forecasting Methods for Management, 3 cr. Analysis of time series data. Forecasts for use in business decisions. Forecasting methods and techniques will include smoothing, decomposition, multiple regression, Box-Jenkins, autocorrelation, moving average, and autoregression. Comparison and selection of suitable forecasting methods for a given application. Use of computer packages for problem solving. *Prereq.:* MNGT-377.

MNGT-357 Purchasing Management, 3 cr. This course focuses on the industrial purchasing function. Topics such as the organization of the purchasing department, purchasing techniques, vendor selection, determination of "quality" value analysis, quality control, inventory control, reciprocity will be covered. Cases are used to provide a better understanding of purchasing. *Prereq.:* MNGT-370 and MNGT-377.

MNGT-358 Quality Management, 3 cr. Management of the Quality Assurance function. Analysis of the planning, design, and organization of quality control systems; statistical aids, process control and quality verification techniques needed for effective operations. *Prereq.:* MNGT-377.

MNGT-359 Advances in Production/Operations Management, 3 cr. Comparison of different production environments. Strategy for production. Detailed coverage of techniques for effective production systems: CAD/CAM, group technology, robotics, flexible. *Prereq.: MNGT-353.*

MNGT-360 Operations Strategy, 3 cr. This course offers an appreciation of the nature and limits of strategic tradeoffs in service & manufacturing organizations and an understanding of the interrelation between organization and operations strategy and impacts of operations strategy on other managerial areas. Emphasis is on the basic approaches of operations management and their strengths and weaknesses, on an integration of conceptual and analytical methodologies through assessment of case materials, and on development of recommendations for action. *Prereq.: MNGT-353, and one operations elective course, or approval of instructor.*

MNGT-368 Business Statistics, 3 cr. Quantitative methods specifically applied to management, marketing, finance, and accounting problems. Topics covered include basic probability theory, measurement and scaling, descriptive statistics, correlation, estimation, testing hypotheses, confidence intervals for mean, and regression. The use of personal computers as decision making aids will be emphasized. *Prereq.: MATH-110 and MATH-111.*

MNGT-369 Advanced Quantitative Methods for Managerial Decision Making, 3 cr. This course is a continuation of MNGT-368. Topics covered include regression, multiple regression, part and partial correlation, experimental design principles, analysis of variance, analysis of covariance, index numbers, time series design, advanced multivariate topics, principal components analysis, and path analysis. The use of personal computers as multivariate decision making aids will be emphasized. *Prereq.: MATH-110, MATH-111 and MNGT-368.*

MNGT-370 Principles of Management, 3 cr. An introductory course in the management of organizations. This course attempts to develop a broad-scoped, integrated understanding of organizations and their management. Traditional and current theories of organizational management are examined. Special attention will be given to the planning, organizing, staffing, leading, and controlling functions of management. Topics also include career development; the external environment; business and society; and the international environment. While the focus is on management in business organizations, the concepts are applicable to other types of complex organizations, notably government agencies, hospitals, non-profit organizations, international business, etc. *Prereq.: All Foundation Courses completed.*

MNGT-371 Organizational Behavior, 3 cr. A broad survey analyzing the contributions of behavioral science to management and administration. Topics stressed are scientific method in organizational research, individual and group dimensions of organizational behavior, decision making, barriers to communication, work motivation, intergroup conflict, leadership, organizational climate and development, and

analysis of power in organizations. Role playing, simulations, class exercises, and case studies are used. *Prereq.: MNGT-370.*

MNGT-372 Organizational Theory and Design, 3 cr. This course approaches the study of business organizations and their management from a macro perspective. The focus of organization theory is to study the structure and design of organizations. Students are presented with both the descriptive and prescriptive aspects of the discipline in order to provide insight into the planning and designing of organizations for effectiveness. Major topics include rational and social systems views of organizations; the social, technical, legal and economic environments of organizations; organizational characteristics such as size technology; structure, climate and administrative philosophy; elements of organizational structure and design (authority structure); specialization; degree of centralization, policies, communication channels, and reward systems; organizational processes including goal setting, strategic planning, decision making, coordinating and controlling, and organizational survival. *Prereq.: MNGT-370.*

MNGT-373 Personnel Administration, 3 cr. Organization and operation of the personnel department. Role of the personnel department in the organization. Topics include task/job development (job analysis, job design, job specification, job enlargement, job enrichment, performance standards, work rules, work conditions); staffing the organization (recruitment, selection, placement, promotion, demotion, interviewing, testing); performance appraisal; training and development; compensation (wage and salary administration, supplementary benefits, incentives); collective bargaining (unionization, negotiation, grievance and arbitration); legal and other environmental issues are stressed. *Prereq.: MNGT-370.*

MNGT-374 Human Resource Planning, 3 cr. This course focuses on planning for human resource needs from the perspectives of the organization, organizational units, and individual members of the organization. Special consideration is given to career planning and management, management succession and development. Within these major emphases, topics include forecasting human resource needs; position planning; models for human resource planning; linking human resource planning to organizational planning; line and staff roles in human resource planning and development; human resource planning and development as change processes. *Prereq.: MNGT-373.*

MNGT-375 Management and Organization Communications, 3 cr. Formal structures, channels, and mechanism for communication within the organization and its environment. Informal process of communication within the organization. Supervisory and management roles in organizational communication. Dynamics of communication in and between organization work units. Functional roles/ perspectives affecting organizational communications. Class exercises and case studies will be used. *Prereq.: MNGT-371.*

MNGT-376 Small Business Management, 3 cr. Application of management concepts and techniques to the small firm. Special attention will be given to the particular nature, opportunities, needs, and problems of small manufacturing, wholesale, retail, and business service firms. Topics include comparison of similarities, differences, and relations between small and large firms, issues and methods in starting a small firm (including selecting the legal mode of organization, buying an existing firm, franchising); funding; risk and venture management for small firms; the role of local, state, and federal government. Case studies and field research may be included. *Prereq.:* MNGT-370, MKTG-350 and ABF-FINA-360.

MNGT-377 Production/Operations Management, 3 cr. This course covers subjects related to the design of production, inventory, and quality control systems. In the production systems design the following topics are covered: design of products and services, capacity planning, process design, work analysis and measurement, facility location, production scheduling. In the inventory control systems design the following issues will be discussed: relation of inventory system to the other functions of organizations, cost structure, deterministic and probabilistic control models. In the quality control design the following are covered: quality concept, statistical quality control methods such as control charts, sampling, etc. *Prereq.:* MATH-110, MATH-111, MNGT-368 and MNGT-370.

MNGT-378 Women in Management, 3 cr. The emerging role of women in business, and the special problems and opportunities created as a result. This is a course for both male and female students. The course presents and reviews the issues relevant to the emerging role of females in management and organizations. Critical evaluation of the issues are practiced in class discussions. *Prereq.:* MNGT-370.

MNGT-379 Introduction to Operations Research and Management Science, 3 cr. A survey of applied scientific methods used in management problems. Among the topics considered are linear programming and related algorithms, dynamic programming, decision theory, Markov analysis, project evaluation, and review techniques. *Prereq.:* MATH-110, MATH-111 and MNGT-368.

MNGT-380 Entrepreneurship, 3 cr. Examination of the entrepreneurial process and the role of entrepreneurship in new ventures and small businesses. Includes discussion on how to start a new venture; obtaining financing for new businesses; marketing, R & D, and production of new products and services. Evaluation of the entrepreneurs and ways to encourage the entrepreneurial spirit in organizations of all sizes. Students will be required to write a realistic business plan. *Prereq.:* MNGT-370, MKTG-350 and ABF-FINA-360.

MNGT-381 International Business and Management, 3 cr. This course examines the following issues: The global economic environment, corporate strategy, foreign operations of American firms and impact of foreign competition on the domestic market; organization for foreign production, marketing and finance, foreign markets, resources, institutions, managerial problems arising out of governmental relations, the cultural environment, and multinational management setting. *Prereq.:* MNGT-370, MKTG-350 and ABF-FINA-360.

MNGT-382 Internship in Management, 3-6 cr. *Prereq.:* Senior standing and consent of Chairperson and Dean's Office.

MNGT-386 Independent Study in Management, 1-3 cr. *Prereq.:* Senior standing and consent of Chairperson and Dean's Office.

MNGT-389 Training: A Managerial Perspective, 3 cr. Organization and operation of the training "function" in business and industry. Topics include: job and task analysis, training needs assessment from individual and organizational perspectives, obtaining managerial support for training effort, arrangement of the training environment, linking training needs assessment to training program content, selecting instructional methods, retention and transfer of learning, training program evaluation, on-site and off-site training methods, techniques for management development, and the role of EEO in the training environment. *Prereq.:* MNGT-370 and MNGT-373.

MNGT-390 Compensation Management and Performance Appraisal, 3 cr. Views compensation primarily from the viewpoint of the employer. Focus on issues that revolve around the work ethic, the employer-employee exchange process, and the basic components of the compensation system to establish a workplace environment that stimulates employee performance. Topics to include: work environment, government and union influence, identifying job contents, job evaluations, determining pay and comparable worth, compensation packages and administration, performance appraisal and feedback. *Prereq.:* MNGT-371 and MNGT-373.

MNGT-392 Business, Technology and Society, 3 cr. Course deals with the environment of business. The role of technology in modern business organizations is considered as well as social change and social pressure on the business community. Other topics to be covered are the social responsibility of business; "The Social Audit": its function in business organizations; managing modern business: changes and adaptability; technology transfer activities in modern business: the U.S. and developing countries' experiences. *Prereq.:* MNGT-370.

MNGT-393 Strategic Management, 3 cr. This advanced capstone course involves the study of the concepts and techniques of determining strategies and operational policies of business organizations. Primarily through the use of cases, students are exposed to theories of business policy, business environment, and the impact of different policy making scenario on selected functions of the business organization. *Prereq.:* Must have applied for graduation, be in final University semester prior to graduation, completed ALL Business and Management Core Courses, met ALL graduation requirements, including GPA requirements, and have a minimum cumulative GPA and major GPA of 2.50 at the time of registration.

MNGT-396 Industrial and Labor Relations and Collective Bargaining, 3 cr. This course focuses on the collective bargaining process between management and employees, especially in unionized organizations but also in non-union organizations. Major topics include: historical development and current issues of the American labor movement; the unionization process and its impacts on organization; the negotiation process; the grievance/arbitration process; labor laws. *Prereq.:* MNGT-370 and MNGT-373.

MNGT-399 Management of Change, 3 cr. An advanced seminar course focusing on organizational change management by managers and employees who wish to initiate a change, are assigned responsibility to manage a change, or who are affected by change initiated by others. Major topics include: nature and dynamics of change and change management; dimensions of change; change management strategies; cycle theories; stability and change; resistance to change; the change manager as change agent or resister/ defender. *Prereq.: MNGT-370.*

MNGT-400 Managing Organizations, 2 cr. This course provides graduate students without a recent business academic background with a general overview of management principles and the sub-fields of the management discipline. Topics include organizational structure and performance; and the general functions of management such as planning, organizing, controlling processes, motivating, communicating, decision making, human resource management, strategic management; and management of international organizations.

Prereq.: graduate standing

MNGT-401 Business Statistics, 2 cr. This course provides graduate students without a recent business academic background a foundation in the field of business statistics. It addresses the concepts of probability distributions and statistical inference and considers various methods of describing data, including the normal distribution. Statistical estimation, sampling, and methods of testing hypotheses of means and proportions using various distributions are discussed. A brief consideration is given to quality control, analysis of variance, and linear regression. *Prereq.: graduate standing*

MNGT-402 Applied Business Research, 3 cr. This course conveys the nature, purpose, and method of applied business research for practicing managers and owner-operators and enables them to acquire research skills. Course topics include problem or project definition, data gathering, hypothesis testing, analysis of result, and developing and reporting of conclusions. Special attention is devoted to the communication process, reporting research findings at various stages, and the use of traditional and high-tech sources of business information. *Prereq.: MNGT-401 or equivalent and graduate standing*

MNGT-403 Leadership and Organizational Behavior, 3 cr. This course addresses the concepts of perception, learning and motivation, and focuses on work-related attitudes and personalities of individual employees and managers. Organizational facets of stress, group dynamics, and organization culture and socialization provide a foundation for the discussion of cooperation, conflict, and influence. The role of leaders and leadership upon organizational behavior and cultures is emphasized. Management communication methods and decision-making processes are considered. *Prereq.: graduate standing.*

MNGT-404 Production and Operation Management, 3 cr. This course provides general coverage of production/operations management in organizations. Emphasis is placed on the application of the P/OM concepts to both goods and service organizations. The information presented is beneficial to students majoring in all of the business administration

functional areas. The course covers production scheduling, materials management, facilities planning and layout, material productivity and quality control. Forecasting, scheduling, inventory, and distribution modeling are discussed. Statistical process control is also presented. *Prereq.: MATH-111, MNGT-401 and graduate standing.*

MNGT-474 Human Resources Policy and Decision Making, 3 cr. This course addresses personnel policy formulation and implementation. Consideration is given to human resources planning, staffing, development, and placement issues in the context of legal and collective bargaining constraints. A review of topical issues such as employment- at-will, drug testing, honesty in the workplace and other special topics is provided. *Prereq.: graduate standing.*

MNGT-480 Entrepreneurship, 3 cr. This course focuses on the initiation of new business ventures as contrasted with the management of on-going enterprises. Topics covered include the characteristics of successful entrepreneurs, methods of identifying market opportunities, appraising market potential, determining startup costs of acceptable purchase price, legal aspects of organization or acquisition, raising venture capital, initial capital structure, selection of the board of directors and key managers, allocation of control among involved parties, and method of rewarding entrepreneurs and key managers. Cases, reading, and some outside speakers will be used. The major emphasis, however, will be on the evaluation of prospective "real world" ventures. *Prereq.: graduate standing.*

MNGT-481 International Management, 3 cr. This course examines the salient features of decision-making and management practices in multinational firms. Particular attention is given to organizational planning and control functions, and to problems encountered by managers as they interact with host governments and institutions. Linkages between certain cultural factors and features of the managerial climate are also examined. *Prereq.: graduate standing.*

MNGT-487 Strategy and Organization, 3 cr. This course serves to integrate preceding courses through the study of strategy formulation and implementation functions and responsibilities of top-level management. The topics addressed include the concept of corporate strategy, the strategic planning and resource allocation processes, the design of formal organizational structure, management control systems, reward and sanction systems, the selection and training of key personnel, and the leadership role of the chief executive officer. Cases and readings are drawn from a variety of types of organizations. *Prereq.: graduate standing.*

MNGT-488 Strategic Planning, 3 cr. This course provides an examination of various models and research findings in the area of strategic planning and of the theoretical and managerial issues raised by these models, findings, and evolving organizational practice. The topics covered include concepts of strategy, analytical informational and behavioral characteristics of the strategic planning process, the design and organization of strategic planning systems, and patterns of strategic behavior. Examples are drawn from a variety of institutions, although the major emphasis is on business.

Prereq.: graduate standing.

MNGT-489 Management of Organization Change, 3 cr.

This course explores the concept of successful management of organizational and behavioral change, focusing on both “planned” and “unplanned” changes and emphasizing the development of change strategies and measurement of change effectiveness. Included will be group laboratory work using video tape systems. Attention will also be given in response to external (e.g., social) changes. Opportunities exist for field work in various institutional contexts. *Prereq.: graduate standing.*

MNGT-490 Management of Technological Innovation, 3 cr.

This course provides a foundation for managing innovation and technology in a changing global and competitive environment. It takes an integrative perspective on the management of innovation as a strategic activity, emphasizing discussion and workshops on topics related to the evolution of technology, threats of disruptive technology, networked business models, organizational architecture and innovation, corporate venturing and intrapreneurship, and means for developing technological competencies. *Prereq.: graduate standing.*

MNGT-498 International Business, 3 cr. This course examines the cultural, social, political and economic factors which underlie certain business practices in foreign countries. Depending upon the expertise and preference of the instructor, the course may focus upon a few primary geographical areas (e.g., Eastern Europe, Far East) intensively, or it may present a wide array of cultural environments in survey fashion.

Prereq.: graduate standing.

MNGT-500 Master’s Project, 3 cr. Approval of major advisor is necessary.

MNGT-501 Master’s Thesis, 3 cr. Approval of major advisor is necessary.

MNGT-502 Business Policy and Strategy, 3 cr. This course focuses upon strategy formulation and implementation at the highest level of organizations. Methods of obtaining resources and creating systems, structures, and policies needed to attain strategic goals are addressed, as is the critical role of the chief executive office (CEO) or the owner-operation of smaller entities. The common body of knowledge acquired from other graduate business courses is integrated and applied to policy and strategy issues or practices within a wide range of organizational frameworks, including multinational corporations, small-to-medium-sized enterprises (SMEs), and sole proprietorship. The case method of instruction is emphasized. *Prereq.: graduate standing, student must be in last semester of the MBA Program and must have completed all other Phase II Advanced Graduate Business Core courses in the Program.*

MARKETING

MKTG-350 Principles of Marketing, 3 cr. This course provides a comprehensive overview of the marketing process by explaining its role in business and society. Major topics include market segmentation and research, purchasing behavior in the consumer and industrial markets, a careful analysis of the marketing mix (product, price, distribution and promotion) and the planning and evaluation of the overall marketing effort. *Prereq.: All Foundation Courses including ECON-217.*

MKTG-351 Consumer Behavior, 3 cr. This course examines: the buyer as a problem solver; buying decision processes; sociological and psychological factors affecting buyer behavior; and consumer behavior models. The course shows how consumer behavior concepts are used in the formulation of the firm’s marketing strategy. *Prereq.: MKTG-350.*

MKTG-352 Advertising, 3 cr. This course examines the roles and management of advertising, sales promotion, public relations, and publicity in the company’s promotional mix. Major topics include determining promotional objectives, budgeting, and planning, executing, evaluating and coordinating the promotional effort. *Prereq.: MKTG-350.*

MKTG-353 Marketing Research, 3 cr. An investigation of the research necessary for the formulation of marketing policies. Topics include research design; sampling; and statistical analysis. *Prereq.: MKTG-350 and MNGT-368.*

MKTG 354 Personal Selling, 3 cr. Introduction to the rationale and methods for effective person-to person communications in the marketing of products, services, and ideas. Application of the marketing concept to the personal selling process and development of customer relationships. Course makes use of in-class presentations and role-playing. *Prereq: MKTG 350*

MKTG-355 Electronic Commerce, 3 cr. This course provides a basic understanding of how business transactions take place over digital networks, mostly the Internet. The topics addressed include the impact of the Internet on the marketing mix, new challenges and opportunities presented by consumer and business buying behaviors on the Internet, designs principles of an effective Marketing web site, e-commerce and security payment systems, important companies in the Internet marketing business, major Web sites, e-commerce resources available to marketers, and models for online retail. The course also examines the role of the Internet in promoting global commerce. *Prereq.: MKTG 350*

MKTG-356 Retail Management, 3 cr. The various marketing activities involved in managing the retail enterprise are examined individually and as a part of the overall retail system. Emphasis is placed upon technological changes and upon factors determining store location, merchandise management, organization purchasing, and competition in the retail environment. *Prereq.: MKTG-350*

MKTG-357 Sales Management, 3 cr. This course exposes students to the roles of professional sales people in the marketing system. It focuses on the development of essential selling skills and the management of sales people. *Prereq.: MKTG-350. MNGT-370 recommended.*

MKTG-358 International Marketing, 3 cr. This course examines the special problems of marketing in an international setting. Reasons for international expansion, both historically and in the present, are discussed. The cultural, political, and legal environments for international marketing are examined. Problems of product, promotion, price, physical distribution, and organization on an international scale are also examined. *Prereq.: MKTG-350.*

MKTG-359 Marketing Management, 3 cr. A capstone course designed to stress the managerial aspects of marketing. Consideration of product, pricing, distribution, promotion, and organization design are related through student projects to the development of the firm's marketing strategy. *Prereq.:* MKTG-350 plus one other Marketing course and ABF-ACTG-201.

MKTG-360 Marketing Channels, 3 cr. This course is designed to prepare future managers to successfully handle the interrelationships among manufacturers, wholesalers, retailers, and consumers. Topics covered include analysis of marketing channel structures, development of channel strategy, and management of marketing channels. The course will emphasize how to plan, organize, and control the economic, political, and social relationships among institutions and agencies to make certain that products and service are available for use or consumption by industrial, commercial, and household consumers. *Prereq.:* MKTG-350.

MKTG-365 Advanced Topics in Promotion, 3 cr. This course covers the concepts of unique selling proposition, brand imagery, and the accomplishment of marketing objectives through creative strategy in ads and commercials. Additional topics include retail, industrial trade and institutional advertising, public relations, publicity, sales promotion, and direct response promotions. Legal and ethical considerations and measurement of campaign effectiveness may be covered at the discretion of the instructor. *Prereq.:* MKTG-350. MKTG-352 recommended.

MKTG-366 Business to Business Marketing, 3 cr. An in-depth look at marketing in the industrial setting. Topics covered include the industrial buyer organization, planning, product and pricing policies, and sales techniques. Extensive use is made of up-to-date readings and cases. Students synthesize their learning in a study of major industrial firm or governmental branch. *Prereq.:* MKTG-350.

MKTG-382 Internship in Marketing, 3 cr. *Prereq.:* senior standing, consent of Chairperson and Dean's Office.

MKTG-389 Independent Study in Marketing, 3 cr. *Prereq.:* senior standing, consent of Chairperson and Dean's Office.

MKTG-400 Fundamentals of Marketing, 2 cr. This course is designed for graduate students who have not recently had formal academic training in marketing. The course develops knowledge of the fundamentals of the marketing discipline, including the responsibility of a firm's marketing personnel to develop and manage productive relationships with the firm's customers and the means by which those relationships are continuously improved. *Prereq.:* Graduate standing.

MKTG-402 Marketing Management, 3 cr. This course focuses on the techniques of management as applied to the functional areas of marketing. *Prereq.:* Graduate standing.

MKTG-451 Consumer Behavior and Marketing Action, 3 cr. This course focuses in analyzing demand, identifying market segments, and predicting customer response to alternative marketing strategies using concepts from the behavioral sciences. *Prereq.:* MKTG-402 and graduate standing.

MKTG-452 Advertising Management, 3 cr. This course explores advertising from the viewpoint of business management, develops an understanding of the role of advertising under various conditions, and looks at the problems of integrating advertising strategies into the firm's total marketing program. *Prereq.:* MKTG-402 and graduate standing.

MKTG-453 Marketing Research, 3 cr. This course explores different approaches to planning, collecting, analyzing, and communicating information from the marketplace, including techniques and applications for specific marketing areas. *Prereq.:* MKTG-402, MNGT-368 or equivalent and graduate standing.

MKTG-456 Channel Distribution and Retailing, 3 cr. This course provides for the study of retailing as an integral part of the economic system and examines retailing from both the manufacturer's perspective and consumer's perspective. It focuses on management and behavioral theories. *Prereq.:* MKTG-402 and graduate standing.

MKTG-458 Global Marketing, 3 cr. This course focuses on identifying and analyzing worldwide marketing opportunities and generating strategies for overseas marketing, and explores the impact of environmental differences on marketing strategies and customer response. *Prereq.:* MKTG-402 and graduate standing.

MKTG-461 Services Marketing Management, 3 cr. Perspectives on managing the distinctive aspects of services as opposed to the marketing and buying of physical goods. The course examines ways in which various kinds of services differ from tangible goods and from each other along social and technological dimensions. Topics include services value creation, services marketing strategies, management of service production and quality, and means for balancing supply and demand for services. *Prereq.:* MKTG-402 and graduate standing.

MKTG-468 Industrial Marketing, 3 cr. This course examines planning, organizing, and controlling industrial marketing activities, and studies industrial products and how they are marketed. Different marketing techniques are discussed according to the nature of industrial products and services. *Prereq.:* MKTG-402 and graduate standing.

MKTG-500 Master's Project, 3 cr. Approval of major advisor is necessary.

MKTG-501 Master's Thesis, 3 cr. Approval of major advisor is necessary.

COLLEGE OF EDUCATION

Nan J. Giblin, Ph.D., Professor, Dean
Beverly Otto, Ph.D., Professor, Acting Associate Dean

The faculty and staff of the College of Education of Northeastern Illinois University are dedicated to excellence and innovation in education. Serving the Chicago metropolitan area, we seek to make our teaching, research, and service efforts responsive to the needs and aspirations of a diverse student body and community. The College of Education, as a fundamental component of a comprehensive public urban university, dedicates itself to becoming nationally recognized:

1. In developing professionals who will teach, train, consult, and counsel; in becoming leaders who facilitate learning, scholarship and creativity throughout life;
2. In developing, applying and disseminating research that results in new knowledge, improved practice and greater levels of achievement by instructors, learners, families, communities and organizations; and
3. By strengthening a commitment to serve schools, communities, business, industry and the professions.

To accomplish our mission, we pursue collaborative and systematic strategies which will continue to improve our teaching, learning, research, and service. We seek to utilize our location in the Chicago metropolitan area as a base upon which we will build and support teams and alliances within the university, and in all appropriate areas outside the university.

The College of Education takes an all-university approach, requiring its students to have a well- rounded general education in the liberal arts, thorough training in professional education courses, and extensive school- community clinical experiences. Students completing teacher certification programs receive entitlement to certification from the Illinois State Teacher Certification Board. Occasionally, State requirements for various certifications may change. Consult the departmental advisor regarding certification requirements.

Students with degrees may complete an approved teacher certification program. Information for degreed candidates is available from the Program Advisor.

COURSES OF STUDY

The College offers courses of study in:

- Bilingual/Bicultural Education
- Counselor Education
- Early Childhood Education
- Educational Administration

- Educational Foundations
- Elementary Education
- Health, Physical Education, Recreation and Athletics
- Human Resource Development
- Inner City Studies Education
- Language Arts
- Reading
- Secondary Education
- Special Education

ACCREDITATION AND APPROVAL

In 1998, the National Council for Accreditation of Teacher Education (NCATE) conducted a thorough on-site evaluation of the College of Education and awarded full accreditation to all teacher education programs in the College of Education.

In 1999, the State Teacher Certification Board, after extensive evaluation of all College of Education certification programs as part of the State Board's Fifth Year Review, found Northeastern Illinois University in compliance with all standards. NCATE is located at 2010 Massachusetts Avenue NW, Suite 500, Washington, DC 20036-1023, (202) 466-7496. As a result, Northeastern has full approval for all of its undergraduate and graduate certification programs for teachers, administrators, and school service personnel. These certification programs are:

Early Childhood Education (Birth - Grade 3)

Educational Administration

- (Graduate level only)
- Chief School Business Official
- General Administrative

Elementary (K-9)

Secondary (6-12)

- Art
- Biology
- English
- History
- Mathematics
- Music (Special K-12)
- Physical Education
- Spanish

The summary pass rate for Northeastern Illinois University of Basic Skills and the academic content area tests is 96%. Additional information on test performance of NEIU program completers is available in the College of Education office.

Reading (K-12)*

- (Graduate level only)

Special Education (K-12)

Learning Behavior Specialist ((LBS I)

School Service Personnel

(Graduate level only)

Guidance and Counseling - School

Guidance and Counseling - Community

UNDERGRADUATE MAJORS

Bilingual/Bicultural Education

Early Childhood Education

Elementary Education

Human Resource Development

Inner City Studies

Music Education K-12

Physical Education

Special Education

In order to graduate, majors not seeking certification must complete all the requirements for their academic programs and be admitted to the College of Education.

UNDERGRADUATE MINORS

The College of Education offers minor programs which supplement other academic programs offered at Northeastern.

These minors include the following:

Educational Foundations

Educational Psychology

Educational Studies

Multicultural Education

Health, Physical Education, Recreation, and Athletics

Health Education

Leisure Studies

Physical Education

Inner City Studies

Inner City Careers

GRADUATE PROGRAMS

The College of Education offers the following graduate programs. Programs with an asterisk (*) lead to both a master's degree and Illinois state certification.

Master of Arts in Educational Leadership*

Master of Arts in Counseling

School Counseling

Community Counseling

Master of Arts in Family Counseling

Master of Arts in Human Resource

Development

Master of Arts in Inner City Studies

Master of Arts in Reading*

Master of Arts in Gifted Education

Master of Arts in Special Education

Early Childhood Special Education

Initial Certification-Learning Behavior Specialist I (LBSI)

Master of Arts in Teaching: Language Arts

Master of Science in Instruction: Language Arts

Master of Arts in Teaching: Bilingual/Bicultural Education

Master of Science in Instruction:

Bilingual/Bicultural Education

Master of Science in Exercise Science

Fitness & Wellness

Human Performance

ADVISEMENT

The University Advisement Center advises freshman and sophomores who have not yet declared a major. Students who are interested in becoming teachers should seek guidance from the Education Advisement Specialist (**pre-major advisor**). Student with a declared major in the College of Education should seek academic advisement from the appropriate department advisor.

GENERAL CONSIDERATIONS FOR THOSE TAKING COURSE WORK, SEEKING ADMISSION AND RETENTION IN THE COLLEGE OF EDUCATION

Students taking coursework in "professional education" and "major" courses in the College of Education are assumed to be seeking admission to the College of Education. During the time that students are taking any courses in the College of Education, the following apply:

- Students may not enroll in any required professional education course more than twice to achieve an acceptable grade.
- The Admissions, Retentions, and Appeals Committee of the College of Education may request an interview with any student. The continuation, admission, retention, or graduation of that student may be withheld until the student complies, and the committee takes appropriate action relative to the student's status.
- Students may be required to take examinations or submit other documentation specific to the particular program and discipline in which they are enrolled or seeking enrollment.

- Programs may impose time limitations on students completing programs. If students do not meet time limitations, they may have to retake some courses.
- Evidence of specific behavior which would be likely to interfere with satisfactory performance as a teacher or professional within the field may be considered as constituting a basis for denying admission or retention.
- Prior conviction of certain felonies may preclude State Teacher Certification. Contact the State Certification Officer for clarification. Prior conviction of certain felonies may also preclude placement in certain field experiences. The individual must notify the Clinical Experiences Office of any convictions prior to placement in any field experiences.
- Students with degrees seeking certification under Illinois House Bill 2207 must seek admission to both the College of Education and to the Teacher Certification Program for Post-Baccalaureate Students. These are separate processes. For requirements and advisement, contact the program advisor.
- Students enrolled in the BOG/BA program at Northeastern who wish to pursue any of the programs within the College of Education may take a maximum of nine hours prior to admission to the College of Education. To take any further courses, the student must be formally admitted to the College of Education. Students must also complete all professional course requirements of their particular programs. A minimum cumulative GPA of 2.50 (on a 4.0 scale) is required in all undergraduate work for BOG/BA students to be admitted into the College of Education.
- For graduation, students must earn a grade of “C” or higher in all courses counted toward the major, the minor, the cognate, and professional sequences. Also see the graduation requirements below.

ADMISSION POLICIES FOR UNDERGRADUATES

Admission to Northeastern Illinois University does not automatically constitute admission to the College of Education, or to professional programs in the College of Education. Students who seek to major in any of the programs offered in the College of Education must be admitted to the College of Education to complete their degrees and to graduate.

Declaring an Education Major

In order to declare an education major students must have passed the Illinois Certification Testing System (ICTS) Test of Basic Skills. Test scores should be submitted to the College of Education along with a completed Declaration of Major form. In Secondary Education, students may declare their content area major (Biology, History, Math, PE, English, Spanish) but may not declare their secondary education concentration until they have passed the ICTS Basic Skills Examination.

- For students majoring in teacher certification programs, admission to the College of Education is a prerequisite for moving forward into specific major courses and field experiences. Please see the appropriate program advisor

for further information. To register for fall major coursework, you must be admitted to the College of Education by May 31st; for spring major coursework, you must be admitted to the College of Education by August 31st.

- Admission to the College of Education should be requested as soon as minimum requirements have been met. To apply for admission, students should contact their program advisor to initiate an application file. Students who have completed application files will have their applications reviewed by the Admissions, Retentions, and Appeals Committee of the College of Education at its next regularly scheduled meeting.

All students, including transfer students, must meet the following minimum requirements for admission:

1. Completion of 30 semester hours at the time of consideration.
2. A cumulative grade point average of at least 2.50 (on a 4.0) scale. Some programs or departments may require a higher grade point average. All students should consult with their advisor. Students working for a second B.A. degree must also meet this requirement.
3. Declaration of major in education.
4. Passing the writing section of the University English Competence Exam.
5. Passing the reading section of the University English Competence Exam.
6. Passing the Illinois Certification Testing System-Basic Skills Test.
7. Students in certification programs must earn a grade of “C” or higher in an approved, three credit, Speech course. Non-certification students should consult with their advisor.
8. Students in certification programs must earn a grade of “C” or higher in approved mathematics courses that meet state certification requirements. Students should consult their program advisor for further information.
9. Students in certification programs must earn a minimum of six semester hours at grade of “C” or higher in approved writing courses that meet state certification requirements. Non certification students should consult with their advisor.
10. A minimum grade of “C” in “professional education” and “major” courses, including those required for admission to the College of Education.
11. Two letters of positive recommendation (one from a university instructor and one from an Educational Foundations instructor).

RETENTION POLICIES FOR ADMITTED UNDERGRADUATES

Once admitted to the College of Education, the student is expected to maintain certain standards

in order to be retained within the College. These include:

1. Maintenance of a cumulative grade point average of 2.75 (on a 4.0 scale) in professional courses. Students should check with their major advisor, as some departmental requirements may vary.
2. Maintenance of a cumulative grade point average of 2.50 (on a 4.0 scale). If the cumulative grade point average drops below 2.50, the student will be placed on academic probation in the College of Education. Students are allowed one term, while on probation, to raise their cumulative grade point average to 2.50. If the cumulative grade point average is not raised to at least 2.50 after one term on probation, the student will not be retained in the College of Education.
3. A grade of "C" or higher in courses in professional education and majors within the College of Education. Students receiving a grade lower than "C" will be placed on academic probation and will not be permitted to student teach until a grade of "C" or higher is achieved.

REINSTATEMENT AND READMISSION

Reinstatement and readmission to the College of Education is not automatic.

- Students in good standing who have been admitted to the College of Education and then withdraw from the University will, upon readmission to the University, be automatically reinstated in the College of Education, if the period of withdrawal has not exceeded two years. If the period of withdrawal exceeds two years, students must apply for readmission to the College of Education. Readmitted students will be required to meet new state requirements in place at the time of readmission, and any new admission and retention requirements within the College of Education.
- A student who has withdrawn while on academic probation or who has not been retained in the College of Education due to an insufficient grade point average (G.P.A.), may be reinstated after the cumulative G.P.A. has been raised to at least 2.50 (on a 4.0 scale). A written appeal to the College of Education must be submitted. It is the responsibility of the student to notify the Office of the Dean, College of Education, of any intention to withdraw from the College. Readmitted students will be required to meet new state requirements in place at the time of readmission, and any new admission and retention requirements within the College of Education.

CLINICAL EXPERIENCES AND STUDENT TEACHING

- It is the teacher candidate's responsibility to meet all deadlines for applications to all clinical experiences and student teaching. Failure to meet deadlines may result in

denial of continuation, admission, or retention within the College of Education. Deadlines for applications are posted on the CEST Website, Hot line, semester schedule, and outside of the Clinical Experiences and Student Teaching Office [4023].

- All candidates who are working to complete certification programs are required to successfully complete, with a grade of "B" or better, at least 100 hours of clinical experiences prior to student teaching.
- A program/department recommendation will be required for admission to student teaching. All "Incompletes" in major/professional courses must be changed to a regular letter grade of "C" or higher prior to entering student teaching.
- Candidates will not be permitted to move into their major clinical experiences if they have not been admitted to the College of Education.
- Candidates will not be permitted to move into their student teaching if they have not passed the ICTS Subject-Matter Knowledge examination in their major.
- Candidates will not be permitted to student teach if they are on academic probation within the College of Education.
- Candidates seeking an elementary education major see ELED admission and retention policy for further rules and regulations.
- A grade of "B" or higher is required in clinical experiences and student teaching to be recommended for Certification.
- For more detailed and specific information, students should refer to the section in the Catalog on Clinical Experiences and Student Teaching, and should also consult their advisor.

GRADUATION REQUIREMENTS

To be eligible for graduation with a recommendation for entitlement for teacher certification through the College of Education, all students must be admitted to the College, maintain the admission standards, successfully complete the required courses in professional education and all requirements of their academic program, pass the United States and Illinois Constitution Examinations and meet all University graduation requirements. (Students may also satisfy the constitution requirements by completing an approved political science course. Contact the Political Science department for course information.)

In addition, students pursuing teacher education programs in early childhood education and elementary education are required to complete at least 71 hours of general education course work in addition to professional education requirements. Those pursuing teacher education programs in secondary education are required to complete at least 47 hours of general education course work. For further information concerning the general education requirements, students should consult with the respective College of Education departments offering teacher certification programs.

Illinois Certification Testing System (ICTS)

The State of Illinois requires that candidates seeking early childhood, elementary, high school, special, school service personnel or administrative certificates must pass a series of examinations.

All candidates must pass the ICTS Basic Skills Test prior to program admission. All candidates must also pass the subject matter examination in the area for which certification is sought prior to receiving authorization for any student teaching, practicum, or culminating internship.

Candidates seeking certification in early childhood (type 04), elementary (type 03), highschool (type09), or a specialist certificate (type 10) must also pass the Assessment of Professional Teaching (APT) examination after September, 2003 prior to receiving a certificate. It is recommended that candidates take the APT examination during their student teaching semester.

Registration and Study Guides are available at the ICTS website: www.icts.nesinc.com

THE CHICAGO TEACHERS' CENTER

IMPROVING URBAN EDUCATION THROUGH COLLABORATION

Since its founding in 1978, the College of Education's Chicago Teachers' Center has been an innovator in developing programs to improve urban education in Chicago schools through collaborative partnerships. The Center challenges the educational system to better serve diverse cultural and ethnic populations by creating, documenting, and disseminating model programs for teachers and students.

THE CENTER SITE IS A RICH RESOURCE FOR BUILDING SUCCESSFUL PROGRAMS

Located at River West Plaza, 770 North Halsted, Fourth Floor, the Chicago Teachers' Center makes its wide array of resources available to teachers, university students, and to the general public. The drop-in center houses several thousand curriculum books, teacher-made instructional materials, Macintosh computers, supplies and equipment. Teachers are invited to share ideas, attend workshops, plan group visits, and consult staff on curriculum and instructional issues. The Conference Center functions as a meeting place for educators from throughout the Chicagoland area. In this facility, educational reform groups, professional associations, and teachers from the school-based programs meet to discuss how schools can be improved.

PROFESSIONAL PROGRAMS IN SCHOOLS

The Center's staff members and university faculty continue an exemplary record of service to Chicago schools by collaborating closely with Chicago teachers, administrators, parents, businesses, and community agencies. Together, we provide a wide range of professional development and instructional services at school sites, the Center, and the

University. The Center offers professional development programs for teachers in such areas as science, reading, math, cooperative learning and the arts; dropout prevention and college bound programs for inner city youth; and workshops that involve parents in their children's education.

CLINICAL EXPERIENCES AND STUDENT TEACHING

Janet Bercik, Ed.D., Professor, Assistant Dean

Clinical Experiences

All candidates seeking Teacher Certification in the State of Illinois must complete a **minimum of 100 clock hours** of clinical experiences working with children or young adults prior to student teaching, in an approved school without pay under the supervision of a qualified mentor teacher. Candidates must receive a "B" or better in their clinical experience to move forward into student teaching.

Procedure:

- a. Applications for any field experience are available for purchase at Beck's Bookstore in the [Field Experience Guidelines and Application Procedures / Forms Handbook](#). Read these instructions carefully.
- b. Forms must be typed and returned to CLS 4023 as specified on page 38 in the handbook.
- c. Applications for major experiences must be made one year in advance. Candidates who do not meet application deadlines, or complete programmatic requirements, must reapply for the following semester.
- d. Current TB tests must be on file in this office prior to the experience. (Mantoux or X-ray only)
- e. Additional information may be found outside CLS 4023, Hotline extension 6027, and NEIU's website at www.neiu.edu/~cestdept.
- f. Any further questions should be addressed to major advisors.

Student Teaching Information

Entrance into student teaching requires that all college and programmatic requirements are met. Applications for student teaching are received one year prior to student teaching by purchasing the Field Experience Guidelines and Application Procedures / Forms Handbook. No meetings are held, but applications must be turned in during the months of October and February for the following year if student teaching is anticipated one year hence. Check all aforementioned CEST sources for deadlines and further information. Not turning in applications as specified may result in a one year delay for student teaching.

Candidates will be assigned schools by the CEST Coordinator in conjunction with department recommendations. During this sixteen week, all day experience students will be under

the supervision of qualified mentor/s, in an approved school, without pay.

Candidates must have all "Incompletes" in their major/professional sequence removed to a "C" or better prior to entering student teaching. Failure to do so by this deadline will cause the student to be removed from student teaching, and delay this experience.

It is recommended that no additional courses or employment be pursued while student teaching.

Departmental Requirements

1. Undergraduate candidates must have completed at least 90 hours of credit.
2. Degreed students and undergraduate students must satisfy all course and program requirements established as prerequisites for student teaching.
3. Students enrolled in the MAT initial certification program are admitted to the Graduate College and must receive Candidacy status in their program. They must also meet all the standards and requirements established by the College of Education.

Department Approval

Students must have department approval for student teaching. **A department recommendation for admission to the College of Education does not ensure department approval for student teaching.** A student who has exhibited (in major, professional courses or in clinical experiences) behavior judged inappropriate to a candidate for the teaching profession following admission to the College of Education may be denied approval by the department for admission to student teaching. All students must follow their departments' procedures concerning admission to student teaching.

Grade Point Average

1. A cumulative grade point average of 2.50 (on a 4.0 scale) or higher, and a grade point average of 2.75 in professional sequence courses, must be maintained for eligibility to do major clinicals and student teaching.
2. The student must meet program/department requirements.

Formal Application to Student Teach

Teacher candidates must make formal application to the CEST Office, CLS 4023. Applications for student teaching are received one year prior to student teaching by purchasing, at Beck's Bookstore, the Field Experience Guidelines and Application Procedures / Forms Handbook. No meetings are held, but applications must be turned in during the months of October and February for the following year if student teaching is anticipated one year hence. Note the following information chart for time frames.

Student Teaching Semester	Need	Deadline Date
Fall	All application materials	Last full week of October (one year in advance)
	ICTS Subject-Matter knowledge Examination	Register January for March test (one semester in advance)
Spring	All application materials	Last full week of February (one year in advance)
	ICTS Subject-Matter Knowledge Examination	Register August for September test (one semester in advance)

NOTE: Additional information may be found outside CLS 4023, Hotline extension 6027, and NEIU's website at www.neiu.edu/~cestdept.

General Placement and Supervisory Process

- Candidates may not make their own arrangements for student teaching sites, nor may they request a change once an assignment has been confirmed.
- Placement requests for any field experience are sent by the CEST Office to the school and/or district.
- A candidate for student teaching assignment or certification must have good character, sound mental and physical health, and must demonstrate the skills, attitudes and behaviors necessary for working with children and/or adolescents, as applicable.
- Student teaching assignments begin and end on the dates indicated on the student's official notice of assignments. Candidates are expected to follow the school calendar of the school in which student teaching is done insofar as vacations and school holidays are concerned. Changes in dates involve consultation and prior permission of the Assistant Dean of Clinical Experiences & Student Teaching.
- All major field experiences require attendance at a confirmation meeting held during the same periods each year. Fall clinical experiences and student teaching meetings are held during the first week of December. Spring clinical experiences and student teaching meetings are held during the third week of April.
- Candidates will be provided registration information for these experiences at these meetings.
- Candidates are required to attend seminars specific to their field experience. The clinical meetings are held bi-monthly, and weekly during student teaching. These meetings require mandatory attendance.
- Mandatory Professional Growth Days are held on the Thursday and Friday prior to the semester's start of student teaching.

- Candidates, who for some reason, are requested to leave either their clinical or student teaching sites are not guaranteed a new placement during the enrollment semester. Special meetings involving the specific student, CEST coordinator, university supervisor, and requesting school will be held to ascertain the nature of the problem. Each issue will be handled on a case by case basis.

Candidates who were requested to leave either their clinical or student teaching will be provided with the criteria necessary to continue or complete either the clinical or student teaching experience. Students who do not finish their second placement in either experience will not be readmitted to complete the program.

- Candidates, who for some reason, self choose to leave, and/or withdraw, from either their clinical or student teaching sites are not guaranteed a new placement during the enrollment semester. Special meetings with the student, CEST coordinator, and university supervisor will be held to ascertain the nature of the problem. Each issue will be handled on a case by case basis.

Candidates who self choose to leave will be provided with the criteria necessary to continue or complete either the clinical or student teaching experience. Candidates who do not finish their second placement in either experience will not be readmitted to complete the program.

The University supervisor, with input from the cooperating teacher/s to whom the student teacher is assigned, is responsible for evaluation of the student and assignment of the final course grade. **To be entitled for certification at NEIU, a student must earn a grade of "B" or better in student teaching.**

University supervisors record their evaluation of each student teacher with the Office of Career Development and Placement, Room C-330 in the Administration Building. The student teacher must provide the supervisor with an evaluation form included in the credential packet distributed by the Office of Career Development and Placement at a meeting held once each semester. This meeting is mandatory and is attended during student teaching. This office maintains evaluation records for any student teacher who opens a credential file, and will make records available to prospective employers upon teacher candidate request. Up-to-date information about school openings are also provided by this office.

ENTITLEMENT AND CERTIFICATION PROCEDURES

Once a candidate has successfully completed student teaching, he/she must follow entitlement procedures required for obtaining certification. All candidates can get this instruction sheet from the Office of Admissions and Records. This sheet specifies in detail the process of entitlement and certification.

Teacher candidates must be aware that ILSC 5/10-21.9, Illinois law requires school boards to conduct a criminal background investigation on applicants for employment. This law also prohibits the employment of any person who has been convicted of committing or attempting to commit any one or more of a number of offenses. At present, offenses include first degree murder; any Class X felony; juvenile pimping; soliciting for a juvenile prostitute; exploitation of a child; obscenity; child pornography; harmful material; criminal sexual assault; aggravated criminal sexual assault; criminal sexual abuse; aggravated criminal sexual abuse; offenses set forth in the Cannabis Control Act, and crimes defined in the Illinois Controlled Substances Act. Employment must be denied where the offenses and/or conviction occurred inside or outside the state of Illinois.

PROGRAMS

CROSS PROGRAM COURSE OFFERINGS IN EDUCATION

Cross Program Courses in Education (EDUC) are offered in the area of Educational Foundations.

EDUCATIONAL FOUNDATIONS COURSES

EDUC-EDFN 302 Philosophical and Historical Foundations
of Early Childhood Education

EDUC-EDFN 303 Early Childhood Development

Catalog descriptions of these courses are located in the Educational Leadership and Development section of the catalog.

COUNSELOR EDUCATION

James A. Fruehling, Ph.D., Professor, Chair
Lee A. Beaty, Ph.D., Associate Professor
Mei-Whei Chen, Ph.D., Associate Professor
Jeffrey K. Edwards, Ed.D., Professor
Nan J. Giblin, Ph.D., Professor
Alice K. Murata, Ph.D., Professor
Charles Pistorio, Ph.D., Associate Professor
Sara Schwarzbaum, Ed.D., Associate Professor
Melvin C. Terrell, Ph.D., Professor
Anita Jones Thomas, Ph.D., Associate Professor

The mission of the Counselor Education Department is to prepare individuals to function as professional counselors. The Counselor Education program, which leads to a Master of Arts degree in Counseling, focuses on knowledge and skill competence in eight areas: professional orientation, human growth and development, social and cultural foundations, helping relationships, group approaches, career development, appraisal, and research skills. Didactic courses along with experiential, practicum and internship experiences contribute to the personal and professional development of prospective counselors.

The School and Community Counseling Programs are accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). Graduates of CACREP accredited programs are allowed to sit for the National Board of Certified Counselors (NBCC) exam during their internship. Upon graduation one is then a Nationally Certified Counselor (NCC). The National NBCC has recognized the necessity for counselors to demonstrate proficiency in the CACREP core areas of study and utilizes the core as a basis for its national exam. Graduates of all NEIU Counseling Programs are also eligible to qualify as Licensed Professional Counselors (LPC). It is imperative that students consult with their program advisors regarding course selection and sequencing.

GRADUATE PROGRAMS

Master of Arts in Counseling

The program leading to the Master of Arts degree in Counseling consists of the following two sequences:

1. School Counseling
2. Community Counseling

Admission Requirements

Applicants to both sequences must meet the admission requirements of the Graduate College. Applicants to the counseling sequences will also be required to meet the following additional requirements:

1. Attend an informational orientation session prior to applying for program admission;

2. Submit recent scores for the general test of the Graduate Record Examination (GRE). Scores will be considered along with other aspects of the application.
3. Participate in an evaluative Pre-Admission workshop after application materials have been submitted;
4. Submit a spontaneous writing sample to be completed during the Pre-Admission Workshop.

Eligibility to Enroll in Classes

Once students are officially admitted to the program, they may register for classes in the department during regular registration periods. Those who have not yet been reviewed for selection may take one course, COUN 401, as a student-at-large. Upon formal acceptance into the program, the credits for this course will be applied towards fulfillment of degree requirements.

For students admitted to Master’s programs prior to the Fall 1997 semester, the majority of courses applied to the Master’s degree must be 400-level; a limited number of appropriate 300-level courses are applicable.

To qualify for the master’s degree, students must complete 48 credits of prescribed course work, which includes six credits of internship, and successfully complete the written departmental proficiency examination.

Once admitted, students must demonstrate satisfactory progress. Therefore, an ongoing evaluation, for the purpose of making retention decisions, is made of all admitted students in the areas of academic achievement, professional growth, and personal growth. Although evaluation will take place during every class, formal evaluation procedures are applied at candidacy, prior to practicum, and on the annual date of one’s admission to the program. (See Admission & Retention Guidelines in *The Student Handbook* for specifics). Students may also be reviewed for retention at the request of individual faculty members.

Should a student be recommended for non-retention in the program by the faculty Admission and Retention Committee, the student’s faculty advisor will communicate the reasons to the student in writing. Further, depending upon the circumstances, the advisor may:

- direct the student to seek a more appropriate field of study;
- advise specific remedial steps that must be taken before continuation in the program is permitted; and
- inform the student of the procedure used to appeal the committee’s decision.

A copy of all communication recommending non-retention will be forwarded by the Counselor Education Program to the Graduate College for final action.

Prerequisites: Six credits of psychology as specified by each sequence

- School:** Educational Psychology
 Psychology of Exceptional Children
 Current Illinois Initial or Standard Teaching Certification and one year teaching or related experience
- Community:** Two psychology courses, including Abnormal Psychology or equivalent

THE CURRICULUM:

Core Courses, Electives, and Clinical Experiences

Required Core Courses for Each Sequence

The program requires a minimum of 48 credit hours, or 16 courses. A core or common curriculum of 27 credit hours is required of all sequences. The core courses include:

COUN-401	The Counseling Profession in a Pluralistic Society	3 cr.
COUN-402	Developmental Counseling	3 cr.
COUN-403	Frameworks for Counseling	3 cr.
COUN-404	Evaluation Techniques	3 cr.
COUN-405	Individual Counseling Skills	3 cr.
COUN-406	Group Counseling	3 cr.
COUN-407	Community Counseling (for the Community sequence)	
or		
COUN-410	Seminar in School Counseling (for the School sequences	3 cr.
COUN-408	Research Seminar	3 cr.
COUN-409	Career Development	3 cr.
	Total	27 cr.

In addition, the Community Sequence requires

COUN-420	Introduction to Family Counseling	3 cr.
COUN-427	Diagnostic Systems for Counseling	3 cr.

Elective Courses

The number of elective courses will vary for each sequence. The elective courses will be selected in consultation with an advisor. Courses most appropriate for that sequence and the student’s career objectives may be selected from the following:

COUN-414	Advanced Career Counseling	3 cr.
COUN-415	Children, Youth and Their Systems	3 cr.
COUN-420	Introduction to Family Counseling	3 cr.
COUN-421	Advanced Marriage and Family Counseling	3 cr.
COUN-422	Grief Counseling	3 cr.
COUN-423	Counseling for Business & Industry	3 cr.
COUN-424	Stress Management	3 cr.
COUN-425	Counseling for Alcoholism and Chemical Dependency	3 cr.
COUN-426	Advanced Counseling for Chemical Dependency	3 cr.
COUN-427	Diagnostic Systems for Counseling	3 cr.

COUN-430 Multicultural Counseling: World View and Systems Orientation	3 cr.
COUN-431 Couple and Family Systems Studies	3 cr.
COUN-468 Seminar in Counseling (title varies)	3 cr.
A-Advanced Group Leadership	
B-Advanced Counseling	
C-Advanced Evaluation Techniques	
G-Advanced Research Seminar	
H-Student Personnel Work in Higher Education	
K-Counseling the Gifted	
M-Current Topics in Community Counseling	
COUN-490 Thesis Research	3 cr.
COUN-499 Clinical Supervision	3 cr.

Also available are a limited number of Independent Studies in which a student creates a course with a special topic of interest under the direction of a faculty member. Credits vary. Graduate level courses in other departments, such as Psychology (Gerontology) may be used as electives with the permission of the student's advisor.

Student assistants used as supervisors for clinical and other courses will receive 3 credits which may be used for elective credit or for additional credit beyond the 48 hours.

Electives may be taken from appropriate courses in other departments, with the approval of the sequence advisor. No more than four courses other than practicum and internship taken with any one professor may be counted toward a degree.

WHEN CHOOSING ELECTIVES, STUDENTS MUST BE AWARE THAT THE VARIOUS PRACTICUM AND INTERNSHIP SITES REQUIRE SPECIFIC COURSES AND COMPETENCIES BEFORE THEY WILL ACCEPT STUDENTS. In some situations, students may need to take courses beyond the 48 minimum credits. It is imperative that each student take responsibility for consulting with both the advisor and the faculty coordinator of clinical sites long before applying for the clinical courses. Failure to do so could delay completion of the program.

CANDIDACY

After completing 15 semester hours, including COUN 401, COUN 403, COUN 404, COUN 405, and COUN 406, students must apply for candidacy. To continue in the program a 3.0 average is required. In the clinical courses, COUN 405 and COUN 406, students must earn a grade of B or better to continue in the program.

Additional Requirements:

1. Clinical Experience - Practicum and Internship

Practicum

Practicum is a 100 hour, field—based experience which requires a minimum of 40 hours of clinical contact with clients (contact hours), and is a prerequisite for Internship. Students earn three credits each for

Practicum I - Group Supervision
(in the appropriate sequence),

and

Practicum II - Clinical Experiences
(in the appropriate sequence).

NOTE: Practicum I and II are conducted concurrently and offered in the Fall semester.

Internship

Internship is a 600 hour, field-based experience which requires a minimum of 240 hours of clinical contact with clients. Students earn six credit hours for the Internship. Students are strongly encouraged to complete all coursework prior to beginning Internship.

2. Departmental Proficiency Examination

All candidates are required to pass a comprehensive examination. Candidates may take the examination after 36 hours of required coursework have been completed. Students can apply to the program to take this examination which is offered in February and June annually.

3. Notification of Student Recess

Once having begun the Counselor Education program, if a student does not attend classes for more than two consecutive semesters (Fall, Spring, Summer), the student must notify the Graduate College and the advisor of his/her intent to continue in the program. Faculty members reserve the right to review the student's course work upon reentry by the student and to require that certain courses be repeated if necessary. Each student is required to complete an average minimum of six to nine credit hours per academic year to finish the program within the prescribed time frame of six years.

Master of Arts in Family Counseling

Coursework for the 60 hour M.A. in Family Counseling program fulfills the requirements for state licensing, CACREP Specialty Track, the National Academy for Certified Family Therapists, Inc., and the American Association for Marriage and Family Therapy Clinical memberships. Although most accrediting bodies use the words "Marriage and Family" to describe their specialty, this program has elected to use the word "Family" to represent what the program believes to be a better description of the practice methods.

Admission Requirements

Applicants for the M.A. in Family Counseling program must meet the admission requirements of the Graduate College and the following additional requirements:

1. Attend an informational orientation session prior to applying for program admission;
2. Submit recent scores for the general test of the Graduate Record Examination (GRE). Scores will be considered along with other aspects of the application;
3. Participate in an evaluative Pre-Admission Workshop after application materials have been submitted; and
4. Submit a spontaneous writing sample to be completed during the Pre-Admission Workshop.

Eligibility to Enroll in Classes

Once students are officially admitted to the program, they may register for classes in the department during regular registration periods. Those who have not yet been reviewed for selection may take once course, COUN 401, as a student-at-large. Upon formal acceptance into the program, the credits for this course will be applied towards fulfillment of degree requirements.

Prerequisites

Students in the M.A. in Family Counseling program must have the following prerequisites:

Six credits of psychology, including abnormal psychology or equivalent

THE CURRICULUM:

Courses, Electives, and Clinical Experiences

Required Courses for the M.A. in Family Counseling

The program requires a minimum of sixty credit hours, or twenty courses:

COUN-401 The Counseling Profession in a Pluralistic Society	3 cr.
COUN-402 Developmental Counseling	3 cr.
COUN-403 Frameworks for Counseling	3 cr.
COUN-404 Evaluation Techniques	3 cr.
COUN-405 Individual Counseling Skills	3 cr.
COUN-406 Group Counseling	3 cr.
COUN-407 Community Counseling	3 cr.
COUN-408 Research Seminar	3 cr.
COUN-409 Career Development	3 cr.
COUN-415 Children, Youth, and their Systems	3 cr.
COUN-420 Introduction to Family Counseling	3 cr.
COUN-421 Advanced Marriage and Family Counseling	3 cr.
COUN-427 Diagnostic Systems for Counseling	3 cr.
COUN-430 Multicultural Counseling: Worldview & Systems Orientation	3 cr.
COUN-431 Couple and Family Systems Studies	3 cr.
TOTAL	45 cr.

Elective Course(s)

One elective course. Elective course(s) will be selected in consultation with an advisor. Possible elective choices include:

COUN-468 Seminar (Title Varies)	3 cr.
COUN-499 Clinical Supervision	3 cr.
TOTAL	3 cr.

Also available are a limited number of Independent Studies in which a student creates a course with a special topic of interest under the direction of a faculty members. Credits vary. Graduate level courses in other departments, such as Psychology (Gerontology) may be used as electives with the permission of the student's advisor.

Student assistants used as supervisors for clinical and other courses will receive three credits which may be used for elective credit or for additional credit beyond the sixty hours.

Electives may be taken from appropriate courses in other departments, with the approval of the student's advisor. No more than four courses other than practicum and internship taken with any one professor may be counted toward the degree.

CANDIDACY

After completing 15 semester hours, including COUN-401, COUN-403, COUN-404, COUN-405, and COUN-406, students must apply for candidacy. To continue in the program, a 3.0 grade point average is required. In the clinical courses, COUN-405 and COUN-406, students must earn a grade of B or better to continue in the program.

Additional Requirements

1. Clinical Experience—Practicum and Internship Practicum

Practicum is a 100 hour, field-based experience which requires a minimum of 40 hours of clinical contact with clients (contact hours), and is a prerequisite for Internship. Students earn three credit hours each for:

COUN-445 Practicum I	Group Supervision in Couple & Family Counseling
COUN-455 Practicum II	Clinical Experience in Couple & Family Counseling

NOTE: Practicum I and II are conducted concurrently and offered in the Fall semester.

Internship

Internship is a 700 hour, field-based experience which requires a minimum of 280 hours of clinical contact with clients. Students are strongly encouraged to complete all coursework prior to beginning Internship. Students earn six credit hours for:

COUN-465 Internship I	Group Supervision in Couple & Family Counseling
COUN-475 Internship II	Group Supervision in Couple & Family Counseling

2. Departmental Proficiency Examination

All candidates are required to pass a comprehensive examination. Candidates may take the examination after forty-two hours have been completed (core courses and electives). Students can apply to the program to take this examination, which is offered in February and June annually.

3. Notification of Student Recess

Once having begun the Counselor Education program, if a student does not attend classes for more than two consecutive semesters (Fall, Spring, Summer), the student must notify the Graduate College and the advisor of his/her intent to continue in the program. Faculty members reserve the right to review the student's coursework upon

reentry by the student and to require that certain courses be repeated if necessary. Each student is required to complete an average minimum of six to nine credit hours per academic year to finish the program within the prescribed time frame of six years.

COURSE OFFERINGS

COUN-401 The Counseling Profession in a Pluralistic Society, 3 cr. This course covers three content areas: an overview of the counseling profession, ethical and legal standards, and multicultural counseling. The course offers an orientation to the counseling profession, and ethical, legal, and professional identity issues. Students will study the history of the profession, ethical and legal standards, preparation standards, organizations, functions, and related journals. Students will also be introduced to the tripartite training model for multicultural competency, which includes awareness of cultural assumptions, knowledge of cultural diversity, and skills for cross-cultural counseling. This course is required of all students. *Prereq.: graduate standing.*

COUN-402 Developmental Counseling, 3 cr. Course focuses on the concept of developmentally oriented counseling. It is based upon lifespan theory which makes the assumption that there is developmental logic to behavior. Counselors learn to assess and understand the client's developmental processes and provide appropriate helping strategies for clients working through developmental blocks. Students study developmental theories, concepts, and principles, including psychosocial, cognitive, moral, emotional, family, career, self, and cultural development. *Prereq.: graduate standing.*

COUN-403 Frameworks for Counseling, 3 cr. Focuses on various theories of counseling and their associated techniques. Students study a range of theories and their application in various professional settings and are required to synthesize their own approach. This course contributes to the theoretical foundations of the helping relationships component of the program and is required of all students. *Prereq: COUN-401*

COUN-404 Evaluation Techniques, 3 cr. Principles of test construction, basic statistical concepts, study of commonly used standardized tests, and other evaluative procedures. Interpretations of test data are an integral part of this course.

Prereq: graduate standing.

COUN-405 Individual Counseling Skills, 3 cr. A laboratory course providing competency-building experiences to prepare counselors for helping relationships. Supervised counseling of fellow students and outside clients is required. Both a knowledge base and a skill base are developed. In all aspects of this course, confidentiality and ethical-behavior are stressed. The course contributes to the helping relationships component of the program and is required of all students. *Prereq: COUN-401 and COUN 403.*

COUN-406 Group Counseling, 3cr. Course focuses on groups and group leadership. Knowledge base includes theory, group processes, group dynamics, interventions, roles of members and leaders, facilitative and debilitative behaviors,

characteristics of developmental stages, ethics, and therapeutic ingredients of group work. Experiential group activities develop self-awareness, interpersonal skills, and leadership ability. Confidentiality and ethical behavior are stressed. Course contributes to the helping relationships and group work components of the program and is required of all students. *Prereq:COUN -405.*

COUN-407 Community Counseling, 3 cr. Presents a theoretical framework focusing on meeting the counseling needs of identified target populations in a programmatic fashion. Prevention, crisis intervention and community based interventions are presented. Specific skills in target population, identification, need assessment, goal formulation, intervention design and program evaluation are developed. Course contributes to both the appraisal and research components of the program and is required of all students. *Prereq:COUN-403*

COUN-408 Research Seminar, 3cr. Introduces students to the nature of scientific research, with particular reference to the research methods and statistical treatments that are appropriate to the study of problems and issues related to professional counseling. Students demonstrate their critical understanding by designing a research proposal. Course contributes to the research and evaluation component of the program and is required of all students. *Prereq:COUN-404*

COUN-409 Career Development, 3 cr. This introductory course provides an overview of the field of career development with applications appropriate to the student's sequence. The focus is on career development theories; occupational and educational information; career and leisure counseling; lifestyle and career decision making; and program planning and evaluation. A whole life perspective facilitates the personal, social, and career development of children, adolescents, and adults. This course contributes to the lifestyle and career development component of the program. Required of all students in the Counselor Education Program.

COUN-410 Seminar in School Counseling 3 cr. This course provides an overview of the field of school counseling in elementary, middle, and secondary schools. Emphasis is on the role of the school counselor as well as an examination of the history and current trends in school counseling programs and services. The developmental school counseling model offers a foundation for understanding various interventions, including individual and group counseling, crisis intervention, consultation, appraisal, and coordination of counseling services. Required of all students in the School Counseling Sequence.

COUN-414 Advanced Career Counseling, 3cr. Advanced Career Counseling provides students with an in-depth laboratory experience in career counseling which will require them to integrate their knowledge of career and counseling theories, individual counseling skills, evaluation techniques, and skills related to the job search process. Students will be required to formulate, present, and write an in-depth client case study. This course is required of all students in the career development sequence. *Prereq: Candidacy and COUN-413 or consent of instructor.*

COUN-415 Children, Youth and their Systems, 3cr.

A study of children and youth and their systems. Assessment and Counseling techniques will be addressed. A comparison between the medically modeled view and the systemic view will be presented. Students will interview a child and his/her family as well as an older youth and their family. *Prereq:* candidacy or permission of instructor. *COUN-420 is recommended.*

COUN-417 Middle School Advisory and Counseling, 3 cr.

This course emphasizes the ways middle school teachers can help meet the developmental needs of early adolescents through consultation, collaboration, and counseling. Content includes key elements of an effective middle school guidance program and how to implement these elements in schools; the developmental characteristics and needs of early adolescents as related to the development of school guidance, advisory, special education, and regular education programs; and the teacher advisor as a communicator, student advocate, supporter-confidant, and home-school liaison who can assess, coordinate, and refer students for various health, social and special needs services.

COUN-420 Introduction to Family Counseling, 3 cr.

Course focuses on major theories and techniques of family counseling. Lectures, student research, and role playing are utilized as presentation forms. *Prereq:* graduate standing, *COUN-401 and COUN-403.*

COUN-421 Advanced Marriage and Family Counseling, 3 cr.

An advanced experience in Marriage and Family counseling. Focuses on developing a personal model of counseling and experiencing the total therapeutic process. Diagnostic skills, case analysis, and relationship strategies are emphasized (e.g. divorce counseling). *Prereq:* graduate standing and *COUN-420*

COUN-422 Grief Counseling, 3 cr.

An overview of contemporary attitudes regarding loss and death and their implications for the counselor's personal reaction to death related events. Students gain expertise with the grieving process and the physical and emotional consequences associated with maladaptive grief. Specific issues raised by different types of loss will also be discussed. Crisis intervention skills, counseling techniques, and community mutual aid efforts to facilitate a healthy grieving process are presented.

Prereq: graduate standing, *COUN-401 and COUN-403.*

COUN-423 Counseling for Business & Industry, 3 cr.

This course is designed for students in the Career Development Sequence. Focuses on the counseling needs in business and industry. The course builds on the work done in COUN-414 Advanced Career Counseling, with the emphasis on the career counseling needs of the adult worker. Course is of value to students seeking careers in the business world, community colleges, and vocational agencies. *Prereq:* graduate standing *COUN-413*

COUN-424 Stress Management, 3 cr.

Course is for counselors serving clients in a variety of settings. Its holistic focus is on stress and burnout from proactive and reactive perspectives. Student learning activities are didactic and experiential. Each student will design, implement and evaluate a personal stress management program appropriate to his/her own needs and resources. Students participate in research,

laboratory and support group activities dealing with aspects of stress management. *Prereq:* graduate standing and *COUN-401* or consent of instructor.

COUN-425 Counseling for Alcoholism and Chemical Dependency, 3 cr.

The knowledge base required for certification in alcohol and/or drug counseling in Illinois is covered. The approach to addictions is through the alcoholism model and includes such areas as medical complications, symptoms, assessment, definitions, denial, relapse, special populations, treatment, education, and counseling attitudes and skills unique to addiction counseling. Major drug categories are reviewed from the standpoint of physiological effects and treatment. *Prereq:* graduate standing, *COUN-401 and COUN-403.*

COUN-426 Advanced Counseling for Chemical Dependency, 3 cr.

Participation in various aspects of a treatment program, including admission interviews, evaluation of patients, short and long range planning with patients, dealing with denial and relapse through counseling. A needs assessment among class members will determine part of this course. *Prereq:* graduate standing and *COUN-425* or consent of instructor.

COUN-427 Diagnostic Systems for Counseling, 3 cr.

This course acquaints counselors with descriptive, research-based, and clinical knowledge that contributes to the diagnosis and treatment of mental disorders, including disorders of behavior and impulse control, mood, and anxiety as well as the various personality disorders and disorders involving loss of contact with reality. Students study the current Diagnostic and Statistical Manual of Mental Disorders of the American Psychiatric Assn. and the ways the manual is used in clinical practice. *Prereq:* master's degree candidacy or permission of instructor.

COUN-428 Advanced Individual Counseling: Case Conceptualization, 3 cr.

Provides students with the opportunity to work with a single client over a ten-week period, using integrative conceptualization and counseling models as a basis for on-going assessment and planning. Small group settings focus on diagnosis and treatment planning within the context of legal and ethical guidelines and with reference to the current Diagnostic and Statistical Manual of Mental Disorders of the American Psychiatric Association. Requirements include preparation and presentation of a professional disclosure statement and a clinical case study.

COUN-430 Multicultural Counseling: Worldview and Systems Orientation, 3 cr.

This course will discuss treatment approaches with culturally diverse families. Students learn the impact of worldview and cultural factors on life cycle development, family functioning, dynamics, roles, expectations, and lifestyle choices, and the relation to presenting problems. Culturally appropriate skills will be included, as well as indigenous healing methods. Finally, students will become aware of their own families' cultural backgrounds. *Prereq:* graduate standing and *COUN-420.*

COUN-431 Couple and Family Systems Study, 3 cr.

An in-depth look at family systems, including a family's developmental and life cycles. Attention will be given to various contemporary family structures with a focus on family assessment of contemporary problems such as substance

abuse, domestic violence, and sexual dysfunction. Comparison of a systemic view and the traditional medically modeled psychological and psychiatric view will be addressed. Students will also study the assessment of families through the use of standardized instruments. *Prereq.:* admission to the Couple and Family Sequence, or consent of instructor, and COUN- 420.

COUN-442 Practicum I: Group Supervision in School Counseling, 3cr. Course focuses on the integration of counseling skills and conceptual frameworks to create strategies to assist children in the areas of personal, social, education and career development. Practicum I is taken concurrently with Practicum II: Clinical Experiences in School Counseling, in which strategies are applied in supervised counseling sessions with individuals and groups. This course contributes to the counseling proficiency component of the program. Required of all students enrolled in the school sequence. *Prereq:* Master's degree candidacy in counseling, COUN-409, and approval of the Department Chairperson.

COUN-444 Practicum I: Group Supervision in Community Counseling, 3 cr. A weekly three-hour course taken concurrently with COUN-454. Focuses on group supervision of clinical experiences and diagnostic and planning procedures within the context of legal and ethical guidelines of the Diagnostic and Statistical Manual of Mental Disorders of the American Psychiatric Association. Presentation of a professional disclosure statement and a clinical case study are required. Course contributes to the counseling proficiency component of the program. Required of students in the community sequence and the family program. *Prereq:* Master's degree candidacy in counseling, COUN 409, and approval of the Department Chairperson.

COUN-445 Practicum I: Group Supervision in Couple and Family Counseling, 3 cr. Practicum I: This is a weekly three-hour course designed to be taken concurrently with Practicum II: Clinical Experiences in Couple and Family Counseling. Practicum I focuses on group supervision of the clinical experiences as well as on assessment and planning procedures for counselors within the context of legal and ethical guidelines. A review of major theories and Couple/Marriage & Family techniques are applied to case material generated from the field experience of Practicum II. This course contributes to the counseling proficiency component of the program and is required of all students in the family counseling program. *Prereq.:* master's degree candidacy in counseling, acceptance into the C/M&F sequence.

COUN-452 Practicum II: Clinical Experiences in School Counseling, 3 cr. Focuses on the use of individual and group strategies to assist clients with normal concerns in the areas of personal, social, educational, and career development. Practicum II requires 100 hours of supervised clinical field experiences in a school setting. This course is taken concurrently with Practicum I: Group Supervision in School Counseling. Contributes to the counseling proficiency component of the program. Required of all students enrolled in the school sequence. *Prereq.* Master's degree candidacy in counseling, COUN-409, and approval of the Department Chairperson.

COUN-454 Practicum II: Clinical Experiences in Community Counseling, 3 cr. Practicum II: Clinical Experiences in Community Counseling consists of 100 clock hours of supervised clinical experience in an appropriate setting. At least 40 of these hours are to be spent in direct service to clients. To be taken concurrently with Practicum I: Group Supervision in Community Counseling. This course contributes to the counseling proficiency component of the program and is required of all students in the community sequence. *Prereq:* Master's degree candidacy in counseling, COUN-409, and approval of the Department Chairperson.

COUN-455 Practicum II: Clinical Experience in Couple and Family Counseling, 3 cr. Practicum II: Clinical Experiences in Family Counseling consists of a minimum of 100 clock hours of supervised clinical experience in an appropriate setting. At least 50 of these hours are to be spent in direct service with clients. Practicum II is to be taken concurrently with Practicum I: Group Supervision in Family Counseling. This course contributes to the counseling proficiency component of the program and is required of all students in the family counseling program. *Prereq.:* master's degree candidacy in counseling, acceptance into the C/M&F sequence.

COUN-462: Internship I: School Counseling, 3 cr. First of two supervised internship courses required for the school counseling sequence. Focus is on the implementation of the role of the school counselor in school settings. Interns work under the supervision of a site supervisor and a university faculty person. The course will require the intern to complete 300 hours of field related activities and participate in an on-campus seminar every other week. *Prereq:* All courses required for the sequence, including COUN-442 and COUN-452, and approval of the department.

COUN-464: Internship I: Community Counseling, 3 cr. First of two supervised internship courses required for the community sequence that focuses on the role of the counselor in a community service program, family guidance clinic, mental health center, hospital, substance abuse treatment program, aging center or court services setting. Supervision provided by a site supervisor and a counselor education staff person. Requires 300 hours of field-related activities, including participation in an on-campus seminar every other week. All courses required for the sequence, including COUN-444 and COUN-454, and approval of the department.

COUN-465 Internship I: Group Supervision in Couple and Family Counseling, 3 cr. This is the first of the supervised internship courses required for the family counseling program sequence. The focus of this course is on the implementation of the role of the family counselor in a community agency, family guidance clinic, community mental health center, hospital, substance abuse treatment program, aging center or court services setting. Interns will be working under the supervision of a site supervisor and a counselor education faculty person. The course will require the intern to complete 300 hours of field-related activities, including participation in an on-campus seminar every other week. *Prereq.:* All courses required for the specialization, Practicum I and II, and approval of the department.

COUN-466 Independent Study in Guidance and Personnel Work, 3 cr. Intensive guided study in selected areas of guidance and personnel work. Consultation with instructor prior to registration is mandatory. *Prereq:* graduate standing and consent of instructor.

COUN-468 Seminar in Counseling, 3 cr. See the subtitles in electives listing. As these subtitles indicate, these courses provide opportunities for detailed analysis of various topics focusing on current trends and/or issues. The varied interests of the students are considered in relation to the activities and assignments. *Prereq:* master's degree candidacy in guidance and counseling or consent of instructor.

COUN-469 Independent Study in Guidance and Personnel Work, 1 cr. Intensive guided study in selected areas of guidance and personnel work. Consultation with instructor prior to registration is mandatory. *Prereq:* graduate standing and consent of instructor.

COUN-470 Independent Study in Guidance and Personnel Work, 2 cr. (See COUN-469 for description.)

COUN-472: Internship II: School Counseling, 3 cr. Second of three supervised internship courses required for the school counseling sequence. A continuation of COUN 462 focusing on the implementation of the role of the school counselor in school settings. Interns work under the supervision of a site supervisor and a counselor education staff person. The course requires the interns to complete 300 hours of field-related activities and participate in an on-campus seminar every other week. *Prereq:* COUN 462: Internship I: School Counseling.

COUN-474 Internship II: Community Counseling, 3 cr. A continuation of COUN 464 which further involves the intern in the implementation of the role of the counselor in a community service program, family guidance clinic, mental health center, hospital, substance abuse treatment program, aging center or court services center. Supervision provided by a site supervisor and a counselor education staff person. Requires 300 hours of field related activities, including participation in an on-campus seminar every other week.

Prereq: COUN-464, Internship I: Community Counseling.

COUN-475 Internship II: Group Supervision in Couple and Family Counseling, 3 cr. This course is a continuation of COUN-465 and further involves the intern in the implementation of the role of the family counselor in an approved internship placement. Interns will be working under the supervision of a site supervisor and a counselor education staff person. The course will require the intern to complete 300 hours of field related activities, including participation in an on-campus seminar every other week. *Prereq.:* COUN-465 Internship I: Couple and Family Counseling.

COUN-490 Thesis Research, 3 cr. This course includes the preparation and submission of a master of arts thesis under the supervision of a faculty committee. Thesis topics will reflect students' interest in a variety of counseling areas. Theses may be based on quantitative and/or qualitative methodologies. *Prereq:* Admission to candidacy, COUN-408, consent of instructor.

COUN-499: Clinical Supervision, 3 cr. This course will examine clinical supervision theory and techniques currently used in counseling and psychotherapy and introduce students to supervision as a specialty. Focusing on developmental issues of both supervisors and clinicians, this course will study methods that can be used to enhance counselor competency and issues related to supervising multiple counseling models. Students are expected to be supervising already, as group and individual supervision-of-supervision will be a component of the class. *Prereq.:* graduate degree, or clinical experience as a supervisor with permission of the instructor. Students must have at least two supervisees they are currently supervising.

EDUCATIONAL LEADERSHIP AND DEVELOPMENT

Diane Ehrlich, Ph.D., Professor, Acting Chair
 Janet P. Fredericks, Ph.D., Professor
 Kenneth N. Addison, Ph.D., Associate Professor
 John Beckwith, Ph.D. Professor
 Suzanne Benson, Ph.D., Assistant Professor
 Clyde Bradley, Ed.D., Associate Professor
 Steven Brown, Ph.D., Professor
 Lynn Bush, Ph.D., Assistant Professor
 Michael E. Carl, Ph.D., Professor
 Steven Dundis, Ph.D., Assistant Professor
 Nicole Holland, Ph.D., Assistant Professor
 Elaine Koffman, Ph.D, Associate Professor
 Elaine Makris, Ph.D., Assistant Professor
 Sharon McNeely, Ph.D., Professor
 Erica Meiners, Ph.d., Assistant Professor
 Ana Gil Garcia, Ph.D., Associate Professor
 Robert T. Starks, M.A., Associate Professor
 Donald Stepich, Ph.D., Associate Professor
 Terryl Stirling, Ph.D., Assistant Professor
 Anderson Thompson, Ph.D., Associate Professor
 Ann Whitaker, Ph.D., Associate Professor
 Conrad W. Worrill, Ph.D., Professor

The Department of Educational Leadership and Development offers:

1. Foundations courses required for teacher education and certification
2. Master of Arts degree in Educational Leadership
3. Bachelor and Master of Arts degree in Human Resource Development
4. Bachelor and Master of Arts in Inner City Studies
5. Undergraduate minors:
 - Educational Studies
 - Human Resource Development
 - Inner City Careers
 - Mexican/Caribbean Studies

Programs in Inner City Studies are offered at the Center for Inner City Studies, 700 E. Oakwood Blvd., 60653. Programs in Educational Foundations and Human Resource Development are offered at the NEIU Campus. Courses/Programs in Educational Administration are offered at the NEIU Campus, at Northeastern's El Centro location (3119 N. Pulaski Road, Chicago, Illinois 60641), in Lake County, the Center for Inner City Studies, and at a variety of locations throughout the metropolitan area via Distance Learning.

UNDERGRADUATE PROGRAMS in Educational Foundations

The Educational Foundations sequence introduces students to content and application to education from the disciplines of philosophy, psychology, history, anthropology, economics, political science and sociology as basic to understanding the educational process. Courses required in the sequence follow, with graduate level course alternatives in parentheses.

ELAD-EDFN-305 Philosophical and Historical Foundations of Public Education (or EDUC-EDFN-405) 3 cr.

ELAD-EDFN-306 Educational and Individual Differences (or EDUC-EDFN-406) 3 cr.

ELAD-EDFN-307 Psychology of Instruction and Learning (or EDUC-EDFN-407) 3 cr.

- No required professional education courses may be taken more than twice to achieve an acceptable grade.
- * Junior standing is required.
- ELAD-EDFN-306 is a prerequisite for EDUC-EDFN-307. ELAD-EDFN-306 must be completed with a grade of "C" or better.
- ELAD-EDFN-306 and ELAD-EDFN-307 may not be taken during the same semester.

Minor in Educational Studies (18-20 cr. hrs.)

The Minor in Educational Studies is designed to allow students to investigate the educational process in specific areas.

Required Courses:

ELAD-EDFN-203 Laboratory in the Foundations of Education 2 cr.

ELAD-EDFN Area Courses:
(pre-approved by the EDFN coordinator 12 cr.

Courses are required in one or more of the following areas as related to education: anthropology, history, philosophy, program evaluation, psychology, quantitative analysis and/or sociology. Courses will be selected by the student in consultation with an advisor in the Educational Leadership Department.

Education Electives:

(pre-approved by the EDFN coordinator 4-6 cr.

Electives will be selected by the student in consultation with an advisor in the Educational Foundations Department.

Total 18-20 cr.

GRADUATE PROGRAM

Master of Arts in Educational Leadership

Northeastern Illinois University offers the Master of Arts in Educational Leadership degree. Students may select one of three concentrations: 1) School Leadership; 2) Chief School & Business Official; and 3) Higher Education Leadership. Program objectives for the three concentrations have been designed to develop exemplary administrative leaders and to foster their continuing growth and effectiveness. Specifically, students in the School Leadership concentration are to develop competencies related to effective leadership, educational management practices, and staff development at the school level. This concentration leads to a Type 75 Administrative Certificate. The Chief School Business Official concentration develops knowledge and skills in the areas of school finance, collective bargaining, personnel management and human relations. Emphasis is also placed on business management practices and the application of theoretical knowledge to effective school business practices. The Higher Education Leadership concentration provides knowledge and skills related to the history and development of community colleges and to effective administrative practices at that level. It stresses an understanding of administrative and supervisory skills for the development and support of instructional systems at the collegiate level. Students in this concentration have the option of completing a thesis. Courses are taught in the evening and Saturdays at the main campus, at El Centro, at Lake County, and at a variety of locations in the Chicago metropolitan area through Distance Education.

Requirements for Admission to the Program:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits must be at the 400 level. Consult with your program advisor or the Graduate College for details.

In addition to the requirements of the Graduate College for admission, students who wish to enroll in the Master's Degree Program in Educational Leadership must meet the following eligibility requirements:

1. A bachelor's or master's degree from an accredited institution of higher education. For those with a bachelor's degree only, a grade point average of 2.75 (on a 4.0 scale) for all undergraduate work is required. Students with a lower grade point average may be accepted conditionally.
2. Admission to the School Leadership concentration requires two years of verified full-time teaching experience in schools recognized by the Illinois State Board of Education (two years of verified full-time experience for school psychologists and school social workers in their respective fields may be substituted for teaching experience). Admission to the concentration for Chief School Business Official requires two years of school business management experience prior to registration for LEAD-445, and the successful completion of two

accounting courses. Admission to the concentration in Higher Education Leadership does not require teaching experience.

3. Successful completion of the Graduate Recurds Examination (GRE).

Program Requirements:

1. Selection of a concentration in School Leadership, Chief School Business Official or Higher Education Leadership.
2. Completion of 36 credit hours according to prescribed sequences.
3. Successful completion of the Departmental Comprehensive Examination

Required Courses:

School Leadership Concentration (36 cr. hrs.)

Sequence I (courses may be taken in any order)

ELAD-LEAD-413 Human Relations	3 cr.
ELAD-LEAD-421 Foundations of Educational Leadership and Organization Studies	3 cr.
ELAD-LEAD-424 School Supervision	3 cr.
ELAD-LEAD-429 Research	3 cr.

Sequence II (courses may be taken in any order)

ELAD-LEAD-434 Practicum in Instructional Leadership and School Management	3 cr.
Elective (if student wishes to take two courses in semester) only one elective for program	3 cr.
Part I of Comprehensive Examination (Student must pass before moving on to Sequence III)	

Candidacy

Complete Illinois Test of Basic Skills

Sequence III (courses may be taken in any order)

ELAD-LEAD-401 Curriculum Development and Learning Theories	3 cr.
ELAD-LEAD-422 Elementary and Secondary School Administration and Supervision	3 cr.
ELAD-LEAD-431 Community Relations	3 cr.
ELAD-LEAD-432 School Finance	3 cr.
ELAD-LEAD-433 School Law	3 cr.
Additional Elective (if not taken in Sequence II)	3 cr.

Sequence IV (courses may be taken in any order)

ELAD-LEAD-435 Practicum in Instructional Leadership and School Management	3 cr.
Part II of Comprehensive Examination or	

Thesis Option (students going for 2nd M.A. Degree)

Total 36 cr.

For those seeking principal positions in the City of Chicago, Sequence V is required in addition to degree requirements.

Sequence V

Students who seek positions as principals in Chicago Public Schools must complete (a) an approved Practicum through the Chicago Public Schools, (b) ELAD-LEAD-425 Advanced Techniques in the Supervision and Evaluation of Professional

Staff, and (c) ELAD-LEAD-428B Seminar in Educational Administration: Administration Theory and Practical Applications.

Chief School Business Official Program (36 cr. hrs.)

Sequence I (courses may be taken in any order)

ELAD-LEAD-413 Human Relations	3 cr.
ELAD-LEAD-421 Foundations of Educational Leadership and Organization Studies	3 cr.
ELAD-LEAD-429 Research	3 cr.
ELAD-LEAD 432 School Finance	3 cr.

Sequence II

BLAW-485 Legal and Social Environment of Business and Management	3 cr.
Part I of Comprehensive Examination (Student must pass before moving on to Sequence III)	

Candidacy

Complete Illinois Test of Basic Skills

Sequence III (courses may be taken in any order)

ELAD-LEAD-431 School Community Relations	3 cr.
ELAD-LEAD-436 Administration of School Personnel	3 cr.
ELAD-LEAD-438 Collective Negotiations	3 cr.
ABF-ACTG-450 Management Information Systems	3 cr.
ELAD-LEAD-447 Introduction to School Business Management	3 cr.
ELAD-LEAD-448 School Business Management II	3 cr.

Sequence IV

ELAD-LEAD-445 Practicum in School Business Management	3 cr.
Part II of Comprehensive Examination	

Total 36 cr.

Higher Education Leadership Program (36 cr. hrs.)

Sequence I (courses may be taken in any order)

ELAD-LEAD-413 Human Relations and Leadership	3 cr.
ELAD-LEAD-421 Foundations of Educational Leadership and Organization Studies	3 cr.
ELAD-LEAD-429 Research in Educational Leadership	3 cr.
ELAD-LEAD-491 Foundations of Higher Education	3 cr.
ELAD-LEAD-492 Resources, Institutional Planning, and Finance in Higher Education	3 cr.
Elective	3 cr.

Sequence II

ELAD-LEAD-495 Practicum in Higher Education	3 cr.
Comprehensive Examination (Student must pass before moving on to Sequence III)	
Candidacy	

Sequence III (courses may be taken in any order)

ELAD-LEAD-493 The Law in Higher Education	3 cr.
COUN-468H Student Personnel Work in Higher Education	3 cr.

Elective	3 cr.
Sequence IV (courses may be taken in any order)	
ELAD-LEAD-430 Thesis Seminar	6 cr.
or	
Two additional electives	
Total	36 cr.

Certification Program

For those candidates who already possess a master's degree and are interested in certification only, programs are provided for entitlement to the following state certificates: General Administration and Chief School Business Official.

Type 75 - General Administration Certificate

Same as the School Leadership Program, except the elective is not required.

Chief School Business Official Certificate

Same as the Chief School Business Official Program.

COURSE OFFERINGS

EDUC-EDFN-302 Philosophical and Historical Foundations of Early Childhood Education, 3 cr. Survey philosophical, historical and psychological bases of early childhood education; a comparative evaluation of past and present educational programs for children from birth to age eight, in public and private school settings; readiness issues and intervention trends in early childhood education; professional responsibilities of early childhood educators.

EDUC-EDFN-303 Early Childhood Development, 3 cr. Studies the growth and development of young children from birth to age eight, including physical, cognitive, and social-emotional development. Presents major theories, principles, concepts, and research in child development. The role of play in development is addressed. Students complete observations of children at various developmental levels.

ELAD-EDFN-202 Laboratory in the Foundations of Education, 1 cr. Students will be guided toward appropriate experiences in a school setting that will increase their understanding and utilization of concepts developed in the foundations courses. Chicago metropolitan area schools and other settings will be used as the laboratory. *Prereq.:* *sophomore standing and consent of instructor.*

ELAD-EDFN-203 Laboratory in the Foundations of Education, 2 cr. (See ELAD-EDFN-202 for description)

ELAD-EDFN-204 Laboratory in the Foundations of Education, 3 cr. (See ELAD-EDFN-202 for description)

ELAD-EDFN-205 Education and Society: A Global Perspective, 3 cr. The school viewed as a key social institution exercising influence and, in turn, being influenced by the total culture. Both formal and informal organizations within the school and classroom are studied. Interrelations of school with other basic institutions are examined. Current educational problems resulting from social conditions are studied. Comparisons with schools in other societies sharpen awareness of cultural and social influences on schools within

one's own country and offer examples of alternative ways schools and societies interact. *Prereq.:* *sophomore standing or consent of instructor.*

ELAD-EDFN-206 Laboratory in the Foundations of Education, 1 cr. (See ELAD-EDFN-202 for general description) Specific to understanding and utilization of concepts developed in ELAD-EDFN-306 (Education and Individual Differences).

ELAD-EDFN-207 Laboratory in the Foundations of Education, 1 cr. (See ELAD-EDFN-202 for general description) Specific to understanding and utilization of concepts developed in ELAD-EDFN-307 (Psychology of Instruction and Learning).

ELAD-EDFN-305 Philosophical and Historical Foundations of Public Education, 3 cr. The exploration of differing views of the aims of public education in America. The study of the historic settings in which the system developed. Identification of major social and cultural problems in relation to their historic antecedents. The study of various philosophic schools of thought and their impact on educational theory and practice, past and present. *Prereq.:* *junior standing.*

ELAD-EDFN-306 Education and Individual Differences, 3 cr. Consideration of individual differences and principles of human development as factors in creating effective learning environments. Emphasis on: (1) understanding children and adolescents as individuals with differing abilities, aptitudes, interests, emotional responses, and accomplishments as the result of genetic, maturational, and environmental factors. Special attention given to children and adolescents covered by Public Law 94-142; (2) observational skills for assessing differences in order to aid student development. Focused study by each student of children or adolescents at a particular age level. (3) application of knowledge of developmental and individual differences to classroom practice. Ten hours of classroom observation required. *Prereq.:* *junior standing.*

ELAD-EDFN-307 Psychology of Instruction and Learning, 3 cr. Study and application to the teaching situation of theories and principles of learning (cognitive, affective, behavioral), motivation, and classroom management including problems of mainstreaming. Also attention to establishing objectives, instructional design concepts, evaluation of learning and introduction to statistical analysis of scores. Focused study by each student of classroom in terms of application of theories and applications associated with learning and instruction. Ten hours of classroom observation required.

Prereq.: *EDUC-EDFN-306 or junior standing.*

ELAD-EDFN-312 Seminar in Current Education Literature, 3 cr. An examination of current educational literature; included would be recent research findings, important views of educational critics, newly developed theories of learning and education, and innovative practices in educational institutions.

Prereq.: *junior standing or consent of instructor.*

ELAD-EDFN-313 Problems, Issues, and Practices in Education, 3 cr. An in-depth examination of salient issues confronting contemporary American education. Topics selected are varied in accordance with student interest. *Prereq.:* *junior standing or consent of instructor.*

ELAD-EDFN-314 Social Issues in Educational Settings, 3 cr. An in-depth examination of particular educational issues from viewpoints of the social science disciplines. Titles include Legal Aspects of Education; the Sociology of the Classroom; Education as Cultural Imperialism: Education and Social Reconstruction; Desegregation and Education; Problems of Educational Finance; Separation of Church and State: the effects on the Schools; Education and Social Class; The University in a Changing Society; Professional Organizations and the Schools; The Politics of Education; Sexism in Education; Accountability and the Schools; Multicultural Education; and Gender Issues in Education. *Prereq.: junior standing or consent of instructor.*

ELAD-EDFN-317 Psychological Issues in Educational Settings, 1 cr. In-depth analysis of specified areas concerning the interrelationship between psychology and education. Possible areas are self concept, affect, motivation, effective thinking, interpersonal skills, classroom diagnosis, individualization, teacher effectiveness, roles and problems of teachers, moral development, psychoanalysis, effective parents, learning styles and developing independent learners. Stress on theoretical and practical approaches to help teachers toward self understanding and to provide opportunities for development of strength in one or more of the above areas. Two credit hour courses require field observation or a project; three credit hour courses require both. *Prereq.: junior standing or consent of instructor.*

ELAD-EDFN-318 Psychological Issues in Educational Settings, 2 cr. (See ELAD-EDFN-317 for description)

ELAD-EDFN-319 Psychological Issues in Educational Settings, 3 cr. (See ELAD-EDFN-317 for description)

ELAD-EDFN-321 Group Dynamics in Educational Settings, 3 cr. Study of principles of group dynamics as they affect classroom behavior. Development of skills in observing, recording, and analyzing group phenomena, in creating and facilitating effective groups, in developing supportive environments, and in group leadership. Course topics include communication, leadership, norms, subgroups and cliques, ability grouping, small group projects, peer teaching, and group approaches to discipline problems. Reading and discussion of group dynamics literature, observation and analysis of classrooms, group investigations of specific topics and practice in group leadership skills. *Prereq.: junior standing or consent of instructor.*

ELAD-EDFN-322 Introductory Statistical Analysis in Education, 3 cr. An introduction to statistical analysis with special focus on methods employed in educational research and evaluation. Topics include descriptive statistics, correlational techniques, elementary probability theory, and elementary parametric and non-parametric statistical tests of hypotheses. Emphasis is placed on theoretical foundations, computational skills, and computer utilization. *Prereq.: junior standing or consent of instructor.*

ELAD-EDFN-333 School Law for Teachers, 3 cr. Provides K-12 teachers and prospective teachers with an understanding of the impact of the legal processes on schools. Attention is

given to current issues and their implications for classroom teachers. Topics include: the legal system, sources and levels of law, contracts, tenure, records, collective bargaining, copyright, academic freedom, tort liability, student and teacher rights, discrimination and handicap issues. *Prereq.: junior standing.*

ELAD-EDFN-405 Development of Educational Thought, 3 cr. An examination of the historical development of American education and some of its antecedents. A study of the educational theories of selected philosophies; an examination of the purposes of education in pluralistic America; an evaluation of educational institutions and practices in terms of present circumstances. *Prereq.: graduate standing.*

ELAD-EDFN-406 Human Development and Learning, 3 cr. The study of the theories and principles of development of school age children and youth. Focus on current theories and research and their their implications for learning and identification of teaching practices that facilitate the acquisition of intellectual and social skills of children and youth. Attention to characteristics covered by PL.94-142 as well as differences due to social, cultural and ethnic factors. Ten hours of classroom observation required. *Prereq.: graduate standing.*

ELAD-EDFN-407 Learning Theories and Educational Practice, 3 cr. Analysis of classroom learning and management in terms of principles and theories of learning and motivation and recent research on effective teaching. Ten hours of classroom observations required. *Prereq.: graduate standing.*

ELAD-EDFN-410 Education as a Social Institution, 3 cr. Study of the school as a social system and as an institution which influences and is shaped by other institutions of society. Particular attention is given to urban education. Laboratory experiences are expected. *Prereq.: graduate standing or consent of instructor.*

ELAD-EDFN-411 Comparative Education: Title Varies, 3 cr. This course provides the student in the College of Education with an opportunity to study a variety of critical issues and current topics which relate to the fields of comparative and international education. This course will provide students with an opportunity to utilize Internet and other distance education opportunities. Students participating in this course will also have the option of participating in an educational experience outside of the United States. This international experience is designed to enhance the student's mastery of international and comparative education elements of the course topic.

ELAD-EDFN-411A Comparative Education: Higher Education, 3 cr. This course provides the student with an opportunity to development, structures, governance of, and critical issues of higher education systems in the United States with those of another country.

ELAD-EDFN-411B Comparative Education: Leadership, 3 cr. This course provides the student with an opportunity to analyze leadership not only as an understandable process, but also as a universal one by comparing and contrasting leadership theories, practices and actions as they are applied in social and educational systems different from the United States.

ELAD-EDFN-412 Selected Concepts in the Philosophy of Education, 3 cr. Analysis of the ideas of important contributors to educational theory. In-depth study of particular theorists or schools of philosophy (such as existentialism, Plato, Dewey, Rousseau, or revolutionary philosophers). Inquiry will focus on such themes such as views of the nature of man, means and ends in education. *Prereq.:* graduate standing or consent of instructor.

ELAD-EDFN-416 Cultural Pluralism and the Schools, 3 cr. The study of multicultural groups: differences and commonalities. Special emphasis is on the investigation and evaluation of various concepts and models of cultural and subcultural relationships as manifested in the schools. Study and application of ethnographic methods to sub-cultures related to and within the educational context. *Prereq.:* graduate standing, or consent of instructor.

ELAD-EDFN-417 Educational Theorist, 3 cr. An in-depth examination of a particular theorist or theoretical view (such as motivational, client-centered, behaviorist, cognitive, new left, Freud, Piaget, Dewey, or Erikson) with applications to classroom situations. Observations of schools or learning situations, modelled after the particular perspective, will probe the implementation of the theorist's ideas at all levels of education. Consideration will be given to the present impact of each theorist and implications for the future. *Prereq.:* graduate standing or consent of instructor.

ELAD-EDFN-418 Seminar in Development and Learning, 3 cr. An in-depth study of theory and research in educational settings on developmental characteristics related to capacity to learn. Titles include Cognitive Development, Social Development, Moral Development and the School, Development in Cross-cultural Perspective, Developmental Crisis and Maturation, The Adult Learner, and Social and Cultural Determinants of Development. Students will focus on an age range of particular interest. Observations will be used to illustrate theory and research. Emphasis will be placed on the ways knowledge about development enhances instruction. *Prereq.:* graduate standing or consent of instructor.

ELAD-EDFN-419 Adolescent Development and Educational Practice, 3 cr. In-depth study of theory and research related to adolescent behavior and development as these affect learning and classroom behavior. Classroom observation required.

ELAD-LEAD-401 Curriculum Development and Learning Theories, 3 cr. An analysis of the basic determinants of curriculum. Emphasis on significance of psychological theories and development, learning and motivation for curricular development including impact of sociological, cultural, and ethnic factors. Special education programs are included. Methods are outlined for evaluating the effectiveness of curricula and programs.

ELAD-LEAD-413 Human Relations and Leadership, 3 cr. Study of basic concepts and principles of interpersonal relationships, communications, group interaction, and leadership and effectiveness. Emphasis on theory, application and skill development. Students will observe and assess interpersonal, group and organizational dynamics with attention to cultural factors and development of effective interaction and problem-solving skills.

ELAD-LEAD-421 Foundations of Educational Leadership and Organizational Studies, 3 cr. This course is designed to introduce the student to the field of educational leadership. The purpose of the course is to assist educational leadership professionals to understand the philosophical, historical, and organizational underpinnings of educational leadership. It provides students with a theoretical base on which to develop sound practical applications in the educational leadership tasks of communicating, planning, implementing and evaluating strategies designed to develop effective learning communities. Further, it prepares the student to understand and choose the most effective leadership, motivational and decision-making strategies for the educational environment in which the student participates.

ELAD-LEAD-422 Elementary and Secondary School Administration and Supervision, 3 cr. An examination of the elementary and secondary school with emphasis upon the role of the principal and his/her relationship with personnel; administrative behavior analyzed in terms of tasks and processes.. School climate and quality learning environment and academic excellence, staff development, curriculum development, finance, action research; opportunity to solve problems with simulated materials which include an emphasis on program and personnel evaluation. Social and cultural factors and special education programs will be analyzed.

ELAD-LEAD-424 School Supervision, 3 cr. An analysis of the components of supervisory behavior in education and their influence upon the participants in the process of supervision; human and technical skills in personnel management; organizational factors affecting the performance of the supervisor; problematic areas within educational institutions and their influence upon supervisory behavior. Practical aspects of program and personnel evaluation; improvement of school learning climate and academic achievement will be emphasized as they relate to school reform and both multicultural and exceptional populations.

ELAD-LEAD-425 Advanced Techniques in the Supervision and Evaluation of Professional Staff, 3 cr. The main focus of this course is to provide an in-depth analysis of advanced techniques in the supervision and evaluation of K-12 professional personnel. The course builds upon the concepts of ELAD-LEAD-424 to develop effective and legally formative and summative evaluations. The evaluation functions of monitoring curriculum fidelity, directing personnel for improvement, making personnel decisions, and working with incompetent personnel provide a framework for applying course content to K-12 settings.

ELAD-LEAD-428 Seminar in Educational Administration, 3 cr. An in-depth analysis of selected topics and problems in educational administration, study of administrative behavior, theory and contributions of behavioral science to administration as well as the characteristics of schools as organizations with implications for practitioners in education. Focused study in areas such as educational decision-making, practical applications of administrative theory, special problems of the elementary or secondary school, and organizational analysis.

ELAD-LEAD-429 Research in Educational Leadership, 3 cr. The purpose of this course is to help the student develop skills in research design, including problem statements, hypotheses formulation, population/sample selection, data collection, statistical analysis and interpretation. The course includes qualitative and quantitative research. Historical analysis, descriptive, causal-comparative, correlational and experimental studies will be developed as they relate to effective schools and administrative research

ELAD-LEAD-430 Thesis Seminar, 3 cr. This course provides guidance in the preparation and submission of a master of arts thesis under the supervision of faculty. It will extend the student's knowledge of standard techniques in the collection and analysis of data and facilitate the development of skills in advanced research design for possible future study at the doctoral level.

ELAD-LEAD-431 Community Relations, 3 cr. An analysis of the role of educational policy in relation to the modern community, community power structure, needs and resources, social and political characteristics, and the principles of cooperative planning and community relations in the context of social and technological change. Focus on community assessment materials; multicultural and multiethnic needs and understanding; needs of exceptional students; interagency cooperation; funding and evaluation. Students are provided opportunities to develop materials for use in their institutions.

ELAD-LEAD-432 School Finance, 3 cr. The theoretical background and legal basis of public school finance and the application of those theories to various school finance models. Topics include: budget analysis, state aid mechanism, accounting processes, facility management and maintenance, transportation, contracts, liabilities and food service management.

ELAD-LEAD-433 School Law, 3 cr. Includes an analysis of selected general legal principles, cases, statute law and law-making agencies affecting educational organizations and systems. Key content areas include the legal system; role of federal and state governments; the legislative process; school governance, policies and rules and regulations; church and state; civil rights; student and parent rights and responsibilities; collective negotiations, torts and contracts. Content is designed for the practical application of school law.

ELAD-LEAD-434 Practicum in Instructional Leadership and School Management I, 3 cr. The major purpose of the practicum is to provide the student with a supervised

experience in the functions and duties associated with instructional leadership and school management. Each student will participate in administrative activities related to instructional leadership one term and school management the other term. Examples of tasks include staff and curriculum development, pupil personnel services, establishing and maintaining effective learning environments, implementation of policy, business and facilities' management, and community relations.

ELAD-LEAD-435 Practicum in Instructional Leadership and School Management II, 3 cr. (See ELAD-LEAD-434 for description.)

ELAD-LEAD-436 Administration of School Personnel, 3 cr. Provides a general understanding of the personnel functions in educational settings. Decision-making and problem-solving will be emphasized. The functions of planning, recruitment, placement, staff development, motivation and compensation, performance appraisal, negotiations and dismissal are included.

ELAD-LEAD-438 Collective Negotiations, 3 cr. The development and establishment of collective bargaining within the educational enterprise: the public and private sectors; in elementary-secondary education and colleges and universities; historical, sociological, and legal perspectives; some consideration and evaluations of various issues (including tactics and process) concepts, and current problems.

ELAD-LEAD-445 Practicum in School Business Management, 3 cr. The purpose of the practicum is to provide the student with supervised experiences in the functions and duties of a school business official. The student is required to participate in activities related to finance, purchasing, planning and business management.

ELAD-LEAD-447 Introduction to School Business Management, 3 cr. Provides a general understanding of the various task areas involved in the field of school business management including financial control, maintenance of buildings and grounds, maintenance of inventories, purchasing and bidding, transportation, insurance, personnel and office management, lunch programs, and administrative relationships.

ELAD-LEAD-448 School Business Management II, 3 cr. Incorporates principles of school fund accounting including a study of budgeting, personnel and payroll administration, auditing and reporting expenditures and receipts, assets and liability accounting, capital asset planning and management, cash management, bonded indebtedness, analysis of statements of position, and extracurricular funds.

ELAD-LEAD-470 Use of the Microcomputer for School Administrators and Supervisors, 3 cr. An examination of the use of micro-computers in educational administration and supervision. Topics include: Introduction to computers, overview of principles underlying computer-assisted instruction and computer-managed instruction, overview and use of available software, internal monitoring and program evaluation, and elementary programming

ELAD-LEAD-480 The Community College, 3 cr. Provides the student with theoretical and practical knowledge about the philosophy, history, students, services, staff and organizational structure of the community college. National trends of the two year college will be analyzed.

ELAD-LEAD-481 Community College Administration, 3 cr. Provides the student with practical knowledge about the day to day demands of administering the Community College. Stresses the importance of the Community college to the nation, state, and local areas and how good administrators and administration can make a strong contribution to the proper and excellent performance of community colleges.

ELAD-LEAD-490 The Adult Learner, 3 cr. An examination of demographic changes fostering attention on adults as well as stages and phases of adult life and adult characteristics as a framework for effective planning, programming, and marketing of adult education.

ELAD-LEAD-491 Foundations of Higher Education, 3 cr. This course provides students with knowledge of the historical development of higher education in the United States and its socioeconomic, political, legal and philosophical underpinnings. This course also provides students with an understanding of the structures and governance of higher education in the U.S. Emphasis is given to current issues, opportunities and problems facing higher education and its stakeholders.

ELAD-LEAD-492 Resources, Institutional Planning and Finance in Higher Education, 3 cr. This course prepares students to understand how institutions of higher education obtain and utilizes resources. It focuses on resource planning, policy development and implementation, and resource allocation. Topics include: institutional governance, research, marketing, budget development, financial allocation, environmental scans and oversight.

ELAD-LEAD-493 The Law of Higher Education, 3 cr. This course presents legal issues from the perspective of preventive law, policy development and implementation. Content includes the structure of the U.S. legal system, constitutional law, statute and case law. Topics include: affirmative action, employment law, intellectual property, due process, academic freedom, human-subjects research, and collective negotiations.

ELAD-LEAD-495 Practicum in Higher Education, 3 cr. This course consists of supervised experience in the functions and duties of leaders in higher education settings.

ELAD-LEAD-496 Seminar in Higher Education: Titles Vary, 3 cr. This course students with an opportunity to study a variety of critical issues and current topics which relate to the field of higher education.

ELAD-LEAD-496A Seminar in Higher Education: The Non-Traditional Student, 3 cr. This course prepares the student to effectively meet the needs of the non-traditional students in higher education settings. Historical evolution and psychosocial factors impacting adult learners, development of student services, curriculum design issues, and methods of building a sense of community among adult learners.

PROGRAMS in HUMAN RESOURCE DEVELOPMENT

The Human Resource Development (HRD) Program offers courses of study leading to both undergraduate and graduate degrees in Human Resource Development, as well as to a minor in Human Resource Development, to prepare professionals who will be responsible for the training, education, and development of adults, in settings such as business, industry, health care, social service, and government. Students in the program will be provided opportunities to develop the knowledge and competencies necessary to meet the increasing needs that organizations have for HRD professionals. Competencies that have been identified by professional organizations have been carefully considered in the development of specific objectives for the course work in the program.

Major in Human Resource Development for the Bachelor of Arts Degree

Upon completion of the major, students will demonstrate: 1) knowledge of different organizational settings in which teaching and learning occur; 2) knowledge of the training, educational and development needs of organizations; 3) skills in task analysis, program planning, and program design that are in keeping with organizational needs; 4) ability to apply principles of learning and motivation as a basis for decisions regarding instructional programs for adults; 5) sensitivity to the psychological and cultural needs of diverse populations needed for adaptation of training/educational planning; and 6) competency in the use of methods and technology appropriate for the instructional/learning needs of organizations.

Required Courses:

ELAD-HRD-300 Principles and Practices in Human Resource Development	3 cr.
ELAD-HRD-301 Adult Teaching/Learning Process	3 cr.
ELAD-HRD-310 Instructional Techniques and Technology	3 cr.
ELAD-HRD-315 Computer Utilization in Human Resource Development	3 cr.
ELAD-HRD-320 Dynamics of Working with Groups and Individuals	3 cr.
ELAD-HRD-321 Designing Instruction in Human Resource Development	3 cr.
ELAD-HRD-325 Communication and Human Resource Development	3 cr.
ELAD-HRD-329 Internship and Seminar in Human Resource Development	9 cr.
Human Resource Development Electives	6 cr.

Each student, in consultation with the program coordinator and/or advisor, will select 6 additional credit hours of work. The selection of courses will be guided by the student's career objectives and will focus on competencies relevant to these objectives. The electives will amplify and extend the core courses.

Total 36 cr.

Human Resource Development majors must be fully admitted to the College of Education prior to registering for ELAD-HRD-329 Internship and Seminar in Human Resource Development.

Additional Area of Concentration 18-33 cr.

Students will complete either a second major or a minor in a related area such as business, communications, criminal justice, computer science, instructional media, psychology, recreation, or social work.

Additional Electives

Students with weaknesses in any area such as communication skills will be required to select electives with the goal of developing these skills.

Minor in Human Resource Development (18 cr. hrs.)

The Minor in Human Resource Development allows students to combine their interests in psychology, business, communications, social services, education, political science, or technical training with the study of the field of Training/Human Resource Development and the development of skills important for practitioners in Human Resource Development.

Required Courses:

ELAD-HRD-300 Principles and Practices in Human Resource Development	3 cr.
ELAD-HRD-301 Adult Teaching/Learning Process	3 cr.
ELAD-HRD-310 Instructional Techniques and Technology	3 cr.
ELAD-HRD-320 Dynamics of Working with Groups and Individuals	3 cr.
Electives	6 cr.

Courses such as ELAD-HRD-315, ELAD-HRD-321, ELAD-HRD-325, ELAD-HRD-390, and ELAD-HRD-362 may be selected as well as other courses with the approval of the Human Resource Development advisor.

Total 18 cr.

GRADUATE PROGRAM

Master of Arts in Human Resource Development

This Master's program prepares professionals who will be responsible for the training, education, and development of adults in organizations involved in business, health care, human service, and government. The program has been developed especially for Human Resource Development practitioners desiring formal training and experienced employees wishing to move into the Human Resource Development field.

The program is designed to develop student's ability to: 1) assess the nature of performance problems; 2) apply needs and task/content analysis techniques; 3) assess the relevant characteristics of learners/trainees; 4) design training/education/development programs; 5) determine the effectiveness of training/education/development programs;

6) communicate and interact effectively with groups and individuals, 7) manage human resource development projects and programs; 8) work effectively across an organization in order to plan, develop and implement performance improvement.

Requirements for Admission to the Program:

Students must fulfill the requirements for admission to the Graduate College.

1. B.A. degree in Human Resource Development or demonstrated success in Human Resource Development, teaching, or related work experience.
2. Two letters of recommendation from professors, employers, or supervisors which provide evidence of an applicant's qualifications.

Individuals who fail to satisfy requirements under number 1 will be asked to complete undergraduate course work in Human Resource Development prior to admission. The courses to be taken will be determined by the program advisor and will be based on a review of the individual's academic record and work experience.

Requirements for the Degree:

For students admitted to Master's Programs for the Fall 1997 semester and thereafter, all graduate credits will be at the 400 level.

Required Courses:

ELAD-HRD-400 HRD and the Organization	3 cr.
ELAD-HRD-401 The Adult Learner I	3 cr.
ELAD-HRD-403 Presentation and Facilitation Strategies for HRD	3 cr.
ELAD-HRD-405 Needs and Task Analysis in HRD	3 cr.
ELAD-HRD-406 Instructional Design in HRD I	3 cr.
ELAD-HRD-407 Measurement and Evaluation in HRD	3 cr.
ELAD-HRD-408 Instructional Design in HRD II	3 cr.
ELAD-HRD-411 Consulting in HRD	3 cr.
ELAD-HRD-415 Seminar in HRD	3 cr.
ELAD-HRD-416 Practicum in HRD I	3 cr.
ELAD-HRD-462 Instructional Strategies in HRD or	
ELAD-HRD-490 Multimedia: Application and Design	3 cr.
Plus one of the following:	
ELAD-HRD-417 Practicum in HRD II	3 cr.
ELAD-HRD-418 Topical Seminar in HRD	3 cr.
ELAD-HRD-419 Project in HRD	3 cr.
ELAD-HRD-420 Thesis in HRD	3 cr.
Total	36 cr.

NOTE: For all students in the program, the following will be required:

- a. A total of 36 credit hours of study are required for completion of the program.

- b. The completion of the Departmental Comprehensive Examination.

Thesis Option

A thesis option will be available by invitation only. The invitation will be based on a consensus agreement of the program's policy board and the desire of the student to select the thesis option. Students doing a thesis will complete ELAD-HRD-420 Thesis Seminar, for 3 credit hours.

COURSE OFFERINGS

ELAD-HRD-202 Career and Life Planning I, 3 cr. Designed to help students develop a greater understanding of themselves and to identify a satisfying career field that matches their talents and abilities. Students will identify their values, analyze their skills, discover their likes and dislikes, and focus on their interests as they relate to possible career choices. A long range plan will be developed and a supportive resume describing capabilities and experience will be prepared.

ELAD-HRD-300 Principles and Practices in Human Resource Development, 3 cr. Course enables students to explore their aptitudes and interests in relation to the roles of educators in non-school settings and to familiarize themselves with the overall purposes of organizations and the role of educators within such organizations. *Prereq.: junior standing or consent of instructor.*

ELAD-HRD-301 Adult Teaching/Learning Process, 3 cr. The study of the range and types of desired educational outcomes as related to characteristics of adult learners, and principles of learning and instruction. *Prereq./Coreq.: ELAD-HRD-300.*

ELAD-HRD-310 Instructional Techniques and Technology, 3 cr. A systematic approach to the development of instructional materials using the principles of instructional design. Topics covered include needs assessment, task analysis, objective preparation, design documents, material development and evaluation. *Prereq./Coreq.: ELAD-HRD-301.*

ELAD-HRD-312 Human Resource Development: Title Varies, 2 cr. Designed to treat various topics in greater detail than presently covered in existing 300-level HRD courses. Courses will focus on the development of a specific knowledge base and/or skills that students will display their competence in. *Prereq.: junior standing and consent of instructor.*

ELAD-HRD-313 Human Resource Development: Title Varies, 3 cr. Designed to treat various topics in greater detail than presently covered in existing 300-level HRD courses. Courses will focus on the development of a specific knowledge base and/or skills that students will display their competence in. *Prereq.: junior standing and consent of instructor.*

ELAD-HRD-315 Computer Utilization in Human Resource Development, 3 cr. An introduction to the use of computers for instructional purposes. Course will focus on design, storyboarding, logic and authoring software. Students will develop computer based training programs. *Prereq.: ELAD-HRD-310 and proficiency in wordprocessing.*

ELAD-HRD-320 Dynamics of Working with Groups and Individuals, 3 cr. The study of effective interpersonal and group behavior in organizations. Understanding the importance of such behaviors for the achievement of learning outcomes

and the development of skill in the use of such behaviors will be emphasized. *Prereq./Coreq.: junior standing and consent of instructor.*

ELAD-HRD-321 Designing Instruction in Human Resource Development, 3 cr. Application of major principles relating to the design and presentation of training/education programs for adults. Students will demonstrate their level of competency on major tasks and then focus efforts on improving levels of competency. The course is to be taken the term prior to the students' participation in the internship program. *Prereq.: ELAD-HRD-300, 301,310, 315, 320, 325.*

ELAD-HRD-323 Independent Study in Human Resource Development, 3 cr. In-depth study of special areas in human resource development. *Prereq.: ELAD-HRD 310.*

ELAD-HRD-325 Communication in Human Resource Development, 3 cr. This course will explore the role of communication skills in the Human Resource Development field, concentrating on written and oral presentation skills. Topics covered include audience analysis, topic selection, research techniques, interviewing/questioning, organization/outlining, and active listening. *Prereq.: ELAD-HRD-300.*

ELAD-HRD-329 Internship and Seminar in Human Resource Development, 9 cr. The internship and seminar will be the culminating activity for the Human Resource Development major. Internship will be in health care settings, business and industry, community, state and federal agencies, rehabilitation and recreation centers, and professional associations. The purpose will be to synthesize what the student has learned in the classroom with practice in the field. *Prereq.: completion of required courses and admission to College of Education.*

ELAD-HRD-362 Instructional Media in Human Resource Development, 3 cr. The purpose of the course is to provide the student with a practical, hands-on approach to selecting and utilizing instructional media, consistent with theories and practices in instructional technology. The emphasis will be placed upon the tools (i.e., equipment and materials) which an instructional designer has available for the production of instructional materials. Students will learn how to operate equipment and will produce instructional materials for media programs. *Prereq.: ELAD-HRD-301 or ELAD-HRD-401.*

ELAD-HRD-390 Computer Based Training, 3 cr. Systematic approach to the design and use of computer-based and interactive video instructional materials. Course includes courseware development, implementation, training techniques, documentation, and state-of-the-art technology. *Prereq.: ELAD-HRD-315 or consent of the instructor.*

ELAD-HRD-400 Human Resource Development and the Organization, 3 cr. Study of the role of HRD in relation to the needs, purposes, structures and processes of organizations in order to maximize the effectiveness and value of HRD to the organization. *Prereq.: Admission to HRD M.A. degree program or graduate standing and consent of instructor.*

ELAD-HRD-401 The Adult Learner I, 3 cr. An analysis of adult learning theory and research in relation to practice in the field of training and human resource development, including study of how adults acquire and use knowledge, skills, and attitudes. Application of theory in varied adult learning situations will be emphasized. *Prereq./Coreq.: Graduate standing and ELAD-HRD-400.*

ELAD-HRD-402 Adult Learner II, 3 cr. In depth focus on individual difference characteristics of adults that affect learning. Consideration of such characteristics as motivation, learning styles, perception of self and others, culture, experiential background, memory/information processing, attribution, cognitive structures, and metacognition. Research paper required that includes application to HRD field. *Prereq.: ELAD-HRD-401.*

ELAD-HRD-403 Presentation and Facilitation Strategies for HRD, 3 cr. Course is designed to provide students with both the theoretical and the application skills for presenting and facilitating instructional programs for both groups and individuals. Topics will include preparing for a presentation, audience analysis, use and design of visual aids, feedback, techniques for group facilitation, and dealing with difficult participants. The course will also deal with strategies for presenting recommendations for implementing and evaluating HRD programs. *Prereq.: Graduate standing and ELAD-HRD-400.*

ELAD-HRD-405 Needs and Task Analysis in Human Resource Development, 3 cr. Defining gaps between desired and actual performance and specifying the cause of the gaps. Identifying and analyzing tasks and job content for the purpose of developing training designed to accomplish specific results in a job or organization. The design, development, and application of techniques and instruments to use in obtaining information on needs and tasks. *Prereq./Coreq.: Graduate standing and ELAD-HRD-400.*

ELAD-HRD-406 Instructional Design in Human Resource Development I, 3 cr. The process of preparing objectives, defining content, selecting and sequencing learning activities for specific training/education/development programs. Includes selection of methodology, including use of media and computer technology, critique and redesign of off-the-shelf materials, and evaluation. *Prereq.: graduate standing and ELAD-HRD-401.*

ELAD-HRD-407 Measurement and Evaluation in Human Resource Development, 3 cr. Determining the effectiveness of HRD learning programs and services. Making decisions on how, what, and when to measure and what standards to use in evaluation. The design, development, and application of techniques and instruments to use in obtaining measurement data. Cost/benefit analysis of the impact of HRD on the organization. *Prereq.: graduate standing and ELAD-HRD-406.*

ELAD-HRD-408 Instructional Design in Human Resource Development II, 3 cr. In this course, students study advanced instructional design techniques as they go through the process of assessing needs, designing and developing instruction, and developing both an assessment and an implementation plan for their training. Students develop an instructional program designed to meet client needs, giving them an opportunity to apply theories learned in earlier courses, as well as acquainting them with additional instructional strategies for developing an expanded instructional program. *Prereq.: ELAD-HRD-406.*

ELAD-HRD-409 Television Production in Human Resource Development, 3 cr. This course will explore techniques of television production and utilization as they apply to the field of human resource development. Students will learn the principles of camera operation, lighting, composition, video

and audio recording, video editing, field production, directing and scripting. The approach will be hands-on; students will write and produce video training materials using instructional design principles. *Prereq.: ELAD-HRD-362 and ELAD-HRD 406 and consent of instructor.*

ELAD-HRD-410 Administration of Human Resource Development Programs, 3 cr. Development and monitoring of Human Resource Development programs that are consistent with the organization's present and future needs. Preparation of long-range plans for the HRD function in an organization and articulation of viewpoints and services to management. Study of how successful HRD practices work in selected organizations. *Prereq.: graduate standing and ELAD-HRD-405.*

ELAD-HRD-411 Consulting in Human Resource Development, 3 cr. This course examines the roles of both internal and external consultants within an organization as they analyze both training and non-training interventions to improve performance. Students work with case studies to examine various aspects of the consulting process. Topics covered include client-consultant relationships, diagnosing organizational situations, developing contracts, marketing your services, etc. *Prereq.: graduate standing and ELAD-HRD-406 or consent of instructor.*

ELAD-HRD-412 Project Management in Human Resource Development, 3 cr. Study of the principles of project management as they relate to the development of HRD programs. Application of the principles to HRD projects that are both in the planning state and in progress will be emphasized. *Prereq.: graduate standing and ELAD-HRD-405.*

ELAD-HRD-413 Independent Study in Human Resource Development, 3 cr. In-depth study of special areas in human resource development. *Prereq.: twelve hours of graduate study in HRD and consent of instructor.*

ELAD-HRD-415 Seminar in Human Resource Development, 3 cr. The seminar will be taken concurrently with Practicum in Human Resource Development I. The objective is to synthesize what has been learned in the classes and apply this learning to on-site problems for which the students are asked to develop training solutions. *Prereq.: master's degree candidacy in HRD, completion of ELAD-HRD-400, 401, 403, 405, 406, 407, and written consent of advisor.*

ELAD-HRD-416 Practicum in Human Resource Development I, 3 cr. Students will do a supervised practicum either in the organization in which they are presently working or in an appropriate site approved by program faculty. While participating in the practicum, the students will be involved in a specified sequence of HRD activities that will include participation in the design and presentation of a training program. *Prereq.: master's degree candidacy in HRD, completion of ELAD-HRD-400, 401, 403, 405, 406, 407, and written consent of advisor.*

ELAD-HRD-417 Practicum in Human Resource Development II, 3 cr. See description of Practicum in HRD I. Students have the option of taking additional practicum hours if the field setting provides an opportunity to design and present a training program that is more involved and will

require an extended time commitment. Practicum in HRD I and Practicum in HRD II can be taken during the same term if it can be clearly established that the student will have time for an extended commitment. **Prereq.:** *master's degree candidacy in Human Resource Development, completion of ELAD-HRD-400, ELAD-HRD-401, ELAD-HRD-403, ELAD-HRD-405, ELAD-HRD-406, ELAD-HRD-407, and written consent of program advisor.*

ELAD-HRD-418 Topical Seminar in Human Resource Development, 3 cr. Advanced study and application of the concepts and principles that are the basis for specific areas in the Human Resource Development field. Consult the Schedule of Classes for specific topics. **Prereq.:** *graduate standing; six hours of graduate study in HRD or consent of instructor.*

ELAD-HRD-419 Project in Human Resource Development, 3 cr. Students prepare a project that involves the application and/or extension of the knowledge and skills developed in the courses that they have completed. The project may be in the form of an instructional program or a paper on a specific aspect of Human Resource Development. **Prereq.:** *Master's degree candidacy in Human Resource Development and approval of advisor.*

ELAD-HRD-420 Thesis Seminar in Human Resource Development, 3 cr. Guidance of students conducting research and writing a thesis to fulfill the requirements of the program, Master of Arts in Human Resource Development. **Prereq.:** *master's degree candidacy in Human Resource Development and invitation by program advisor.*

ELAD-HRD-462 Instructional Strategies in Human Resource Development, 3 cr. This course will explore various strategies that can be used to facilitate learning in a variety of situations. Strategies such as advance organizers, concept mapping, imagery, etc. will be studied in terms of their advantages, limitations, and applications. The course will explore different types of learning, such as declarative knowledge, concepts, motor skills, etc. The different types of learning will be studied in terms of their characteristics and the implications those characteristics have for selecting and using instructional strategies. **Prereq.:** *master's degree candidacy in Human Resource Development and invitation by program advisor.*

ELAD-HRD-490 Multimedia: Application and Design, 3 cr. This course presents an overview of varied aspects of multimedia as used in the HRD field. Course content blends theory and application as students learn the basic elements of instruction, interaction, and the impact of technology on instruction. Students use an authoring program to design instruction which meets criteria for effective teaching/learning. Students will use multimedia as a vehicle for research and communication through e-mail and Internet access. **Prereq.:** *master's degree candidacy in Human Resource Development and invitation by program advisor.*

PROGRAM in INNER CITY STUDIES

A program in Inner City Studies is offered at the Center for Inner City Studies, 700 E. Oakwood Blvd., 60653. The curricula in Inner City Studies focuses on an interdisciplinary approach to examining the political, economic, social, and cultural forces that impact on inner city communities in this country and throughout the world. The Program has established, as its primary function, the retraining of inner city career persons who desire to work in inner city communities.

The Program in Inner City Studies, through the College of Education, offers the following degrees:

- Bachelor of Arts in Inner City Studies
- Master of Arts in Inner City Studies

In addition, the program offers a Minor in Inner City Careers.

UNDERGRADUATE PROGRAMS

Major in Inner City Studies for the Bachelor of Arts Degree

Required Courses:

ELAD-ICSE-103 Introduction to Inner City Studies	3 cr.
ELAD-ICSE-201 History and Culture of Ethnic Groups in America	3 cr.
ELAD-ICSE-301 Racism in Theory and Fact	3 cr.
ELAD-ICSE-302 The Inner City Community	3 cr.
ELAD-ICSE-303 Theory and Methodology in Ethnic Group Research	3 cr.
ELAD-ICSE-304 Communication in the Inner City	3 cr.
Electives	12 cr.
Electives are chosen in consultation with an advisor, from undergraduate course offerings in Inner City Studies.	
Total	30 cr.

Inner City Studies majors must apply and be admitted to the College of Education by the time they have completed 24 hours. The final six hours of the major may not be taken until the student has been admitted to the College of Education.

Minor in Inner City Careers (18 cr. hrs.)

The program encourages students in the Inner City Studies major to pursue a minor in Inner City Careers. Through established contacts with other educational institutions, business enterprises, and social and government agencies, students are made aware of changing career opportunities and demands in city environments.

Required Courses:

ELAD-ICSE-305 Business, Welfare and Labor System	3 cr.
ELAD-ICSE-329A Pro-Seminar in Inner City Studies	3 cr.
ELAD-ICSE-332A Inner City Careers	1 cr.
ELAD-ICSE-334A Inner City Careers	3 cr.

Electives 8 cr.
 Electives may be fulfilled through internships and life-experience credits directly related to a chosen career. Students must consult an academic advisor.

Total 18 cr.

NOTE: ELAD-ICSE-305 and 329 may not be used to fulfill requirements for other major or minor programs.

Additional Offerings

The program offers, at its site, courses for those Inner City Studies undergraduate majors who desire to take the Elementary Education major leading to elementary teacher certification. Additionally, the required courses may be taken at the CICS leading to a second major in General Business Administration, a minor in Sociology or Criminal Justice. (Please refer to department requirements in the College of Arts and Sciences, and the College of Business and Management sections of the catalogue). Students may also complete all of the General Education Program requirements at the CICS.

The program works closely with the Center for Inner City Studies (CICS) staff in offering the courses necessary to complete the General Education Program requirements.

Courses leading to a second major in General Business Administration are also available at the CICS site. (Please consult the College of Business and Management section of this catalog for a description of this program.)

Community Affairs

The program sponsors a variety of courses, workshops, and community activities for Northeastern students and for members of the inner city community. One program of special interest is the **African and Caribbean Studies Program** which is a comparative education program that focuses on inner city and institutional development. This program includes study tours and workshops.

GRADUATE PROGRAM

Master of Arts in Inner City Studies

This program is designed for students who intend to work in one of a variety of positions available in human services or a related field. A master's project or paper is required.

For students admitted to Master's programs prior to the Fall 1997 semester, the majority of courses applied to the Master's degree must be 400-level; a limited number of appropriate 300-level courses are applicable.

Requirements for the Degree:

Core curriculum: (required of all students)

ELAD-ICSE-411 Graduate Study in the Inner City 3 cr.
 ELAD-ICSE-427 Seminar in the Inner City Community 3 cr.
 ELAD-ICSE-442 Research Methods in Inner City Studies 3 cr.

ELAD-ICSE-443 Research Writing 3 cr.
 ELAD-ICSE-452 Field Internship 3 cr.
 ELAD-ICSE-453 Seminar in Field Internship 3 cr.
 Approved Electives (including ELAD-ICSE-431 Seminar in Inner City School Problems (mandatory elective) 12 cr.
 Total 30 cr.

COURSE OFFERINGS

ELAD-ICSE-101 Development of Inner City Children, 3 cr. An examination of traditional theories of child growth and development in the light of recent findings of interdisciplinary research on the behavior of disadvantaged children in urban settings. Special emphasis on inner city family structures as well as those informal and formal systems that contribute to personality formation.

ELAD-ICSE-102 The Paraprofessional in the Inner City School, 3 cr. Introduction to educational philosophies and teaching techniques relevant to inner city schools from pre-school through upper elementary grades as they pertain to the paraprofessional (teacher aide). Considerable focus on teacher aide-pupil relationships and teacher aide-parent relationships. Special projects will deal with practical classroom situations and motivational techniques. Students will be exposed to new materials and media and trained to select those especially applicable to inner city youth.

ELAD-ICSE-103 Introduction to Inner City Studies, 3 cr. An overview of the problems of minority groups in large urban settings. Includes the study of mental and physical health, and community services.

ELAD-ICSE-104 Introduction to Ethno-Musicology, 3 cr. An introduction to the music of each Ethnic group: Spanish descent, African-American and Indian with historical analysis of each group's musical origins.

ELAD-ICSE-105 Urban Art Forms, 3 cr. Survey of contemporary art forms that compares themes, types of materials, and designs with those of the past.

ELAD-ICSE-106 Inner City Behavior Patterns, 3 cr. A psychological approach to the distinctive life-style patterns that permeate all facets of inner city living.

ELAD-ICSE-201 History and Culture of Ethnic Groups in America, 3 cr. An examination of religious, social, economic, and political aspects of ethnic groups in the United States, namely: Spanish descent, African-Americans, American Indians, etc.

ELAD-ICSE-202 Colonial Systems, 3 cr. The history, culture, politics and economics of external and internal colonialism from the 17th century to the present. Restricted to undergraduates.

ELAD-ICSE-203 Revolutionary Movements, 3 cr. Comparative study of various contemporary revolutionary movements including domestic revolts.

ELAD-ICSE-204 Introduction to African Civilizations, 3 cr. An introductory survey of African civilizations, concerned with the major culture of Africa before the invasions by the modern, Western European nations of the 15th and 16th centuries.

ELAD-ICSE-205 Ethnic Politics in America, 3 cr. A study of the way various ethnic and social groups relate to local and national politics. Examination of the various ways by which ethnic groups in America have obtained political strength. It will investigate ethnic activities in this area on the local and national levels.

ELAD-ICSE-301 Racism in Theory and Fact, 3 cr. Study of race and culture as related to social and racist theories. Focus will be on such issues as prejudice, racial superiority, and racial group interaction.

ELAD-ICSE-302 The Inner City Community, 3 cr. The study of the politics, economics, and social structure of the inner city. In addition, the ecological approach will be covered.

ELAD-ICSE-303 Theory and Methodology in Ethnic Group Research, 3 cr. Examination of literature and theories that relate to research of minority communities and individuals. Examination of the various theoretical frameworks and models that have been developed from research of various ethnic groups. An examination of the methods used in collecting such data will also be undertaken.

ELAD-ICSE-304 Communication in the Inner City, 3 cr. An examination of the cultural barriers and racial myths which impede inter-cultural communication. Development of a theory of inter-cultural communication with emphasis on means of disseminating ideas, news and propaganda in inner city communities.

ELAD-ICSE-305 Business Welfare and Labor Systems in America, 3 cr. A study of political, economic, and social aspects of the labor welfare economy as related to group structure. Problems posed by automation, cybernation, and discrimination will be studied in-depth.

ELAD-ICSE-324 Problems in Testing Inner-City Children, 3 cr. Special problems in administering, interpreting, and constructing tests for inner city children.

ELAD-ICSE-326 Language Behavior in Inner-City Communities, 3 cr. Review of the literature and research on language problems in the inner city, methods, and programs for speech, reading, and listening improvement, and utilization of learning aids.

ELAD-ICSE-327 Seminar in Administrative Practicum, 2 cr. Designed to provide orientation, overview and evaluation of practicum experience. Must be taken concurrently with ELAD-ICSE-328. *Prereq.: ELAD-ICSE-305.*

ELAD-ICSE-328 Administrative Practicum, 4 cr. A ten week assignment in an inner city administrative unit, governmental or private. Designed to give the student experience in administration and administrative problems of various agencies and organizations. The student will be supervised by a cooperating administrator working with the faculty practicum supervisor. Must be taken concurrently with ELAD-ICSE-327. *Prereq.: ELAD-ICSE-305.*

ELAD-ICSE-329 Pro-Seminar in Inner City Studies, 3 cr. Designed to permit in-depth probes into a variety of issues concerning various inner city communities, especially those in North and South America, the Caribbean, and Africa. May be comparative. Can be taken more than once for credit.

ELAD-ICSE-331 Literature of Ethnic Groups, 3 cr. Approach to the study of ethnic cultures through literature written by and about those groups; study of literary works concerned with African descendants, Southern Mountain Whites, American Indians, Cubans, Puerto Ricans, and Mexicans. Insight into the cultural attributes of these groups through the reading of novels, plays, biographies, essays, poems, and short stories.

ELAD-ICSE-332 Inner City Careers, 1 cr. Enables students to explore information about themselves and the world of work in an effort to make personal career decisions. Emphasizes the communications process in the work world.

ELAD-ICSE-333 Inner City Careers, 2 cr. Enables students to survey career areas being considered as their life's work. Students are exposed to career conditions, requirements, income ranges, etc. of the careers under consideration. Emphasis is placed on compiling data through student research, about people functioning in career areas, and potential employers. Students also explore processes of seeking specific employment positions. *Prereq.: admission to College of Education with a major in inner city studies.*

ELAD-ICSE-334 Inner City Careers, 3 cr. Students are required to serve as "workers" (usually time without pay) in the career areas of their choice. In addition, the course requires considerable thought on students' part and a written prospectus of how they would use their chosen career to benefit inner city communities if given the opportunity. *Prereq.: admission to College of Education with a major in inner city studies.*

ELAD-ICSE-348 Intergroup Dynamics, 3 cr. Study of how to help pupils and parents of different races interact harmoniously; practice in directing activities that will enhance intercultural relationships through such techniques as role playing, panel discussions, and public speaking.

ELAD-ICSE-411 Graduate Study in the Inner City, 3 cr. An introduction to graduate study of the conflict of cultures in the United States, especially between the dominant culture and African-Americans, American Indians, Southern Mountain Whites, Cubans, Mexicans, and Puerto Ricans. Special emphasis will be given to educational problems facing these groups. This course is required and should be taken early in the student's program. *Prereq.: graduate standing.*

ELAD-ICSE-412 Behavior Patterns in the Inner City, 3 cr. The study of inner city behavior patterns which result in agency intervention. *Prereq.: graduate standing.*

ELAD-ICSE-413 The Idioms of African Communities, 3 cr. The oral communication characteristics and language patterns peculiar to African-Americans in urban areas. *Prereq.: graduate standing.*

ELAD-ICSE-414 History and Culture of Southern White Migrants, 3 cr. History of the Southern White Migrants, treated in conjunction with an examination of the cultural patterns of the people; major emphasis on the family, religion, education, and economic status, and their respective roles in the transition from a rural to an urban way of life. *Prereq.: graduate standing.*

ELAD-ICSE-415 History and Culture of Spanish Speaking Americans: Mexican, Puerto Rican, and Cuban, 3 cr. Cultures of the Puerto Rican, Mexican, and Cuban, studied against their historical backgrounds; special attention given to an understanding of the individual's problems in transition from peasant to urban societies. *Prereq.: graduate standing.*

ELAD-ICSE-416 History and Culture of African-Americans, 3 cr. Study of African derivation and the culture of American slavery; urban and rural existence; development of the emergent African-American middle-class. *Prereq.: graduate standing.*

ELAD-ICSE-417 History and Culture of American Indians, 3 cr. Treatment of the general history and distribution by cultural areas of the North American Indian; description and analysis of representative Indian values undertaken in order to understand the problems in the process of change from tribal to non-tribal systems. *Prereq.: graduate standing.*

ELAD-ICSE-425 Seminar in Religion and Philosophy of Traditional Communities, 3 cr. Seminar with varying subtitles designed for students to focus on the religion, beliefs and wisdom of selected ethnic societies, especially African, Caribbean, and American Indian. The impact of Western dominion on these religions and philosophical systems will be examined. May be taken more than once for credit. *Prereq.: graduate standing, ELAD-ICSE-411, ELAD-ICSE-442 and ELAD-ICSE-427.*

ELAD-ICSE-426 History and Philosophy of Black Education, 3 cr. Examination of the historical and social forces surrounding the issues of Black education in America, from 1800 to the present. It is within the scope of this course to help the student recount and reconstruct, as near as possible, the crucial social controversies, their advocates, and the century-old evolution of schools of thought on Black educational theory. *Prereq.: graduate standing, ELAD-ICSE-411, ELAD-ICSE-427 and ELAD-ICSE-442.*

ELAD-ICSE-427 Seminar in Inner City Studies, 3 cr. Advanced analysis of the inner city which allows faculty to develop, with students, courses that reflect the changing dynamic nature of the inner city. May be taken more than once for credit provided titles are varied. *Prereq.: graduate standing, ELAD-ICSE-411 and ELAD-ICSE-442.*

ELAD-ICSE-431 Seminar in Inner City School Problems, 3 cr. Problems of curriculum, counseling, instruction, facilities, school attendance, the gang, etc.; students to do research and present papers on special problem areas and their relationship to school and community. The student will complete a master's report, emphasizing participation in some activity related to inner city education, with approval of instructor. The report may take the form of demonstrations, copies of interviews, a written report, etc. *Prereq.: acceptance to master's degree candidacy in inner city studies.*

ELAD-ICSE-432 Curriculum Development in the Inner City, 3 cr. A consideration of the life needs, the assets and the disabilities of the inner city child, and the adjustment of the curriculum to improve the child's learning experiences. Emphasis will be placed on the theory of curriculum

construction and the needs of inner city children. *Prereq.: graduate standing and ELAD-ICSE-411.*

ELAD-ICSE-441 Cultures of the Inner City, 3 cr. Intensive comparative analysis of the way of life of America's urban poor and their relationship to the larger society. *Prereq.: graduate standing and ELAD-ICSE-411.*

ELAD-ICSE-442 Research Methods in Inner City Studies, 3 cr. Research design and analysis of data; methods for collecting and interpreting data, observation, formulation of hypotheses, techniques of interviewing, questionnaire construction, and writing of reports; primary objective of the course is to train students to read research studies with understanding and to apply the findings to classroom instruction. *Prereq.: graduate standing.*

ELAD-ICSE-443 Research Writing, 3 cr. Advanced instruction in writing reports, proposals, papers, and thesis. Consideration of form and style. Methods of writing critiques of research studies. *Prereq.: graduate standing, ELAD-ICSE-411 and ELAD-ICSE-442.*

ELAD-ICSE-444 Methods of Teaching in the Inner City, 3 cr. Curriculum development and adjustment to meet needs of inner city pupils; new approaches to teaching the "hard to reach" pupil; students to develop units in their own major teaching areas, utilizing new materials and techniques. *Prereq.: graduate standing.*

ELAD-ICSE-445 Independent Study in Inner City Studies, 3 cr. Intensive study of topics related to student's program. *Prereq.: graduate standing.*

ELAD-ICSE-451 Research and Thesis, 3 cr. Supervision and advisement in evolving thesis problems and in writing the thesis. *Prereq.: master's degree candidacy in inner city studies.*

ELAD-ICSE-452 Field Internship, 3 cr. An opportunity to work with disadvantaged children in varied social agencies that serve these youngsters in their communities; the student to function as participant-observer by assuming an active work role in the various programs offered by the agencies, thereby allowing close, intimate contact with the children and their parents; agency staff supervision, as well as regular attendance at staff conferences, to enable the student to gain working insight and understanding of the philosophy of the agency program; to be taken concurrently with ELAD-ICSE-453. *Prereq.: master's degree candidacy in inner city studies.*

ELAD-ICSE-453 Seminar in Field Internship, 3 cr. A companion course to field internship; formulation of operational principles of understanding and working through various problems that arise in the student's interaction with disadvantaged youngsters in the field; clarification of the student's attitudes and feelings as determinants in the relationships and learning processes; to be taken concurrently with ELAD-ICSE-452. *Prereq.: master's degree candidacy in inner city studies.*

ELAD-ICSE-454 Masters Project Research, 3 cr. Supervision and advisement in evolving a research project and in writing research results. *Prereq.: master's degree candidacy in inner city studies.*

HEALTH, PHYSICAL EDUCATION, RECREATION AND ATHLETICS

Christopher M. Hearon, Ph.D., Assistant Professor, Chair
 C. Murray Ardies, Ph.D., Professor
 Daniel Creely, Ed.S., Professor
 Michael W. Fagen, Ph.D., M.P.H., Assistant Professor
 Betty Fields, M.P.E.H., Assistant Professor
 Violet Johnson, Ph.D., Assistant Professor
 Joan Leafman, Ph.D., Associate Professor
 William Quinn, Ed.D., Associate Professor

The Department of Health, Physical Education, Recreation, and Athletics is located in the Physical Education Complex at the south end of the campus. Opened in January, 1988, this facility includes two gymnasiums, a suspended jogging track, six racquetball courts, a 60 x 120 foot swimming pool, a fitness center, two tennis courts, a baseball field, a softball field, a soccer field, classrooms, the Department of HPERA's Human Performance Laboratory, and faculty/staff offices.

The goals of the Department are to provide students with 1) an awareness of the role of health, physical education, leisure, recreation, athletics, and exercise sciences in schools and society; 2) the opportunity to acquire competencies that will enable them to be successful in varied educational and professional settings; 3) the opportunity to develop a satisfactory level of personal skill in the many areas of the discipline; and 4) a basis and desire for continued professional growth following graduation.

The Department of Health, Physical Education, Recreation, and Athletics offers the Bachelor of Arts and Master of Science degrees.

Undergraduate major: Secondary Physical Education
 (K-12 Certification is available.)

Undergraduate minors: Health Education
 Physical Education
 Leisure Studies

Graduate major Exercise Science
 Fitness and Wellness Concentration
 Human Performance Concentration

All undergraduates, with their advisor's consent, may choose major courses in physical education as electives credited toward graduation. (HPER-HLED,-LEST,-PEMA,-PEMT prefixes)

Adaptive programs are outlined (with physician's approval) for students with special medical needs.

UNDERGRADUATE PROGRAMS

Students interested in a physical education major, a Leisure Studies minor, a Health Education minor, or a Physical education minor must make an appointment with the

appropriate department advisor to develop an individualized academic program. The Professional Standards Committee of the department reviews faculty recommendations for students requiring special attention and meets with the student to discuss and remedy any weaknesses.

In addition to the College of Education requirements for admission and retention, the Department requires the following before students will be allowed to participate in an internship or register for the courses that immediately precede student teaching:

1. a 2.75 (on a 4.0 scale) grade point average in all major courses;
2. removal of all incomplete grades in courses offered by the department;
3. satisfactory completion of and certification in Water Safety Instructor (PEMA-381);
4. satisfactory completion of all required courses in both professional education and major;
5. permission of the department advisor.
6. admission to the College of Education.
7. passage of the State Basic Skills Exam.

Major in Secondary Physical Education for the Bachelor of Arts Degree

Secondary Physical Education majors, upon successful completion of the program and graduation from Northeastern Illinois University, are entitled to Illinois State Teacher Certification, grades 6-12. The program includes the 27 credit hour Secondary Education Professional Program (includes HPER-PEMT-201) and 38 credit hour Secondary Physical Education Major. Students are encouraged to complete one or more minor programs; eg., Leisure Studies and/or Health Education. Student Teaching for this program is scheduled for the Spring semester only.

Unique to the Secondary Physical Education Major is the Block Program which is taken during the Fall Semester of the Senior year. In the Block Program, major and professional study courses are taken on campus during the morning hours. The student will spend six weeks in a suburban school and six weeks in a Chicago urban school. One of these six week experiences will be in a middle school, the other in a high school. The student will spend at least 100 clinical hours at one of the schools helping coach an interscholastic sport.

Required Courses:

Professional Preparation

EDUC-EDFN-305	Philosophical and Historical Foundation of Public Education.	3 cr.
EDUC-EDFN-306	Education and Individual Differences	3 cr.
EDUC-EDFN-307	Psychology of Instruction and Learning	3 cr.
TED-SCED-301	Methods of Teaching on the Secondary Level.	4 cr.

TED-SCED-305P	Secondary Student Teaching and Seminar in Physical Education	9 cr.
HPER-PEMT-201	Principles and Methods in Physical Education	3 cr.
HPER-HLED-305	Health Education in the Secondary School	2 cr.
TED-READ-301	Teaching Reading in Junior and Senior High School	3 cr.
	Total	30 cr.

Physical Education

HPER-EXSC-204	Physiology of Exercise	3 cr.
HPER-PEMA-151	Fundamentals of Rhythms	3 cr.
HPER-PEMA-231	Individual and Dual Sports	3 cr.
HPER-PEMA-275	Team Sports	3 cr.
HPER-PEMT-293	Scien Found Mtr Lrng	3 cr.
HPER-PEMA-381	Water Safety Instructor	2 cr.
HPER-PEMT-202	Tests and Measurements	3 cr.
HPER-PEMT-203Y	Lifelong Sports & Activities	3 cr.
HPER-PEMT-302	Kinesiology	3 cr.
HPER-PEMT-303	Adapted PE and Rec.	3 cr.
HPER-PEMT-305	Human Anatomy	4 cr.
HPER-PEMT-342F	Soc. Asp. of P.E.	3 cr.
HPER-PEMT-372	Adv Ed. Curriculum Design	3 cr.

Fall Block

HPER-PEMA-344	Orgnztn/Mgmt PE Classes	3 cr.
HPER-PEMT-311	Coaching & Team Mngmnt.....	3 cr.
HPER-PEMT-341	Orgnztn/Mgmt PE Classes	3 cr.

NOTE: C&I-SCED-301 Methods of Teaching on the Secondary Level, should be taken with the above block courses.

Major in Health and Wellness for the Bachelor of Arts Degree**Program Coordinator: Dr. Michael Fagen**

NOTE: The Secondary Health Education track of the Health and Wellness major is awaiting final approval from the Illinois State Board of Education. Please consult the Health and Wellness program coordinator for the approval status of the Secondary Health Education track.

Health and Wellness majors choose from two tracks: Secondary Health Education and Community Health and Wellness. The Secondary Health Education track prepares students for health education teaching positions in secondary schools (grades 6-12). Students completing the Secondary Health Education track and graduating from Northeastern Illinois University are entitled to Illinois State Teacher Certification in health education. The Community Health and Wellness track prepares students for professional positions in a variety of health-related settings, including government, industry, the non-profit sector, and health service delivery organizations. The Community Health and Wellness track is a non-teacher certification track.

Students in both the Secondary Health Education track and the Community Health and Wellness track complete the

Health and Wellness core courses. In addition, Secondary Health Education students complete the Secondary Health Education Professional Preparation courses, the Fall Clinical Experience courses, and Spring Student Teaching. Community Health and Wellness students complete the Community Health and Wellness Professional Preparation Courses and the Internship.

Required Courses:**Health and Wellness Core**

HPER-HLED-312	Current Health Concepts	3 cr.
HPER-HLED-212	Consumer Health	3 cr.
HPER-PEMT-203Z	Field Experience: Community Health Services	3 cr.
HPER-HLED-307	Human Diseases	3 cr.
HPER-HLED-303	Sex Education	3 cr.
HPER-HLED-210	Nutrition and Health	2 cr.
HPER-PEMT-342E	Pro-Seminar: Drug Education	3 cr.
HPER-PEMT-342A	Pro-Seminar: Aging, Death, and Dying	3 cr.
PSYC-110	Life Span Development	3 cr.
	Total	26 cr.

Track One: Secondary Health Education

NOTE: A proposed list of courses for the Secondary Health Education track may be obtained from the Health and Wellness program coordinator.

Track Two: Community Health and Wellness**Professional Preparation:**

HPER-HLED-107	Health for Effective Living	2 cr.
HPER-HLED-103	Community Health	3 cr.
HPER-HLED-308	Principles of Individual Health Practices	3 cr.
ELAD-EDFN-306	Education and Individual Differences	3 cr.
HPER-HLED-314	Principles of Epidemiology in Health Education	3 cr.
HPER-HLED-313	Assessment and Evaluation in Health Education	3 cr.

Spring Internship:

HPER-HLED-304	Organization and Administration of the School Health Program	3 cr.
HPER-HLED-305	Health Education in the Secondary School	2 cr.

Plus

Field Experience Course	3 cr.
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Total 51 cr.

UNDERGRADUATE MINORS**Minor in Health Education (24 cr. hrs.)**

Required Health Education Component—one course from each of the following areas to total 10-14 credit hours:

Theories Concepts of Health

HPER-HLED-312	Current Health Concepts	3 cr.
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Programs in School Health

HPER-HLED-304 Organization and Administration
of the School Health Program 3 cr.

Programs in Community Health

HPER-HLED-103 Community Health 3 cr.
HPER-PEMT-203Z Field Experience: Community
Health Services 3 cr.

Curriculum Development and Evaluation in Health Education

HPER-HLED-301 Health Education
in the Elementary School 2 cr.
HPER-HLED-305 Health Education
in the Secondary School 2 cr.

Health Education Content Component—one course from each
of the following areas to total 10-14 credit hours:

Required: One course from each of the following areas:

Human Sexuality or Sex Education

HPER-HLED-105 Preparation for Marriage 2 cr.
HPER-HLED-303 Sex Education 3 cr.

Drug/Chemical Use and Abuse

HPER-HLED-342E Pro-Seminar: Drug Education 3 cr.

Elective: One course from at least two of the following areas:

Mental/Emotional Health

HPER-PEMT-220 Introduction to
Adventure Education 3 cr.
PSYC-128 Psychology of Mental Health 3 cr.
HPER-PEMT-342A Pro-Seminar: Aging, Dying
and Death 3 cr.

Environmental Health

BIOL-104 The Changing Natural Environment 3 cr.
G&ES-307 Environmental Education Seminar 3 cr.

Disease Prevention and Control

HPER-HLED-307 Human Diseases 3 cr.

Nutrition and Dietary Patterns

HPER-HLED-210 Nutrition and Health 2 cr.

Consumer Health Sources and Resources

HPER-HLED-212 Consumer Health 3 cr.
HPER-PEMT-342B Pro-Seminar: Health Law 3 cr.

Safety and Injury Control

HPER-HLED 101 Cardiopulmonary Resuscitation
and First Aid 1 cr.
HPER-HLED-111 Cardiopulmonary Resuscitation 1 cr.
HPER-HLED-202 Safety Education 3 cr.
HPER-HLED-206 Standard First Aid Instructor 2 cr.
HPER-HLED-342Q Legal Implications in
Physical Education 4 cr.

Personal Health Practices

HPER-HLED-107 Health for Effective Living 2 cr.
HPER-HLED-308 Principles of Individual Health
Practices 3 cr.
HPER-PEMT-342B Pro-Seminar: Women
and Health Care 2 cr.

NOTE: The Health Education Minor provides the minimal
requirement for teaching health in Illinois.

Minor in Leisure Studies (18 cr. hrs.)**Required Courses:**

HPER-LEST-201 Principles and Practices of Recreation
and Leisure 3 cr.
HPER-LEST-202 Camping and Outdoor
Recreation 3 cr.
HPER-LEST-204 Leisure, Culture, and Society 3 cr.
HPER-LEST-302 Leisure Economics 3 cr.
HPER-LEST-304 Organization and Administration
of Leisure Programs 3 cr.
HPER-PEMT-303 Adapted Physical Education and
Recreation 3 cr.
Total 18 cr.

Minor in Physical Education (20 cr. hrs.)**Required Courses:**

HPER-HLED-101 First Aid and CPR 1 cr.
HPER-PEMA-181 Advanced Swimming Techniques ... 1 cr.
HPER-PEMT-201 Principles and Methods in Physical
Education 3 cr.
HPER-PEMA-231 Individual and Dual Sports 2 cr.
Choose two of the following: 2 cr.
HPER-PEMA-171 Softball 1 cr.
HPER-PEMA-172 Basketball 1 cr.
HPER-PEMA-173 Volleyball 1 cr.
HPER-PEMA-271 Track and Field 1 cr.
HPER-PEMA-276 Team Sports 3 cr.
Choose one of the following: 3 cr.
HPER-PEMT-202 Tests and Measurements in
Physical Education 3 cr.
HPER-EXSC-204 Physiology of Exercise 3 cr.
HPER-PEMT-303 Adapted Physical Education
and Recreation 3 cr.
HPER-PEMT-312 Sport and Society 3 cr.

Electives: 9 cr.
Electives to be selected in consultation with advisor. _____

Total 21 cr.

This minor does not meet the requirements for teaching
physical education. Consult Department Advisor for minimum
teaching requirements.

COURSE OFFERINGS

HPER-EXSC-204 Physiology of Exercise, 3 cr. Instruction in how the musculoskeletal, neuroendocrine, cardiovascular, and respiratory systems of the human body function to allow the performance of physical activity and exercise, and how these physiological systems respond to both acute and chronic exercise training. *Prereq.:* six credit hours in general biology, and HPER-PEMT-305 or equivalent.

Health Education

HPER-HLED-101 Cardiopulmonary Resuscitation and First Aid, 1 cr. American Red Cross standard course in first aid and CPR.

HPER-HLED-103 Community Health, 3 cr. Purposes and principles of a community health program; identification of major community health problems; responsibilities of individual citizens and voluntary and governmental health agencies; planning for community health action.

HPER-HLED-105 Preparation for Marriage, 2 cr. Analysis of factors in emotional, biological, social, and spiritual maturity as they relate to the individual, marriage, and the family.

HPER-HLED-107 Health for Effective Living, 2 cr. Consideration of concepts related to the physical, mental, and social dimensions underlying personal health. Emphasis upon motivation for intelligent self-direction of health behavior based upon current scientific facts.

HPER-HLED-111 Cardiopulmonary Resuscitation, 1 cr. The course will provide the student with the necessary physical skills, as well as pertinent background information of how, when, and under what circumstances to perform cardiopulmonary resuscitation (CPR). Students who successfully complete this course receive American Health Association Certification.

HPER-HLED-202 Safety Education, 3 cr. Safety education in elementary and secondary schools. Sources of materials; coordination with agencies furthering safety within and outside the schools; practical application of safety education.

HPER-HLED-206 Standard First Aid Instructor, 2 cr. American Red Cross advanced course in first aid and opportunity for authorization as an instructor. *Prereq.:* HPER-HLED-101 or consent of instructor.

HPER-HLED-210 Nutrition and Health, 2 cr. Principles of nutrition and its relationship to man's health. Emphasis on practical application of current information to evaluate present nutritional status, weight control, selection of foods, and dietary habits.

HPER-HLED-212 Consumer Health, 3 cr. Prepares the student to make wise choices in the selection of health products and health services. Emphasis on proper utilization of the health care system and evaluation of products and services with regard to cost and impact on physical and mental health. Includes identification of reliable sources of health-related information, laws and agencies to protect the consumer.

HPER-HLED-301 Health Education in the Elementary School, 2 cr. Preparation for teachers of health education in the elementary grades. Emphasis on curriculum, methods, organization, and presentation of materials.

HPER-HLED-303 Sex Education, 3 cr. Emphasis upon human reproduction, family life, marriage, and parenting problems. Instructional methods and materials for educators are presented.

HPER-HLED-304 The Organization and Administration of the School Health Program, 3 cr. Organization of school health programs and administrative policies related to school health services, school health instruction, and healthful school living.

HPER-HLED-305 Health Education in the Secondary School, 2 cr. Subject matter selection and organization for teaching purposes; correlation potential of health instruction in school subjects, methods of presentation, educational principles in health. Emphasis upon the professional and legal responsibilities of the secondary teacher in the total school health program.

HPER-HLED-306 Seminar in Trends and Issues in Sex Education, 3 cr. A critical analysis of current trends and basic issues of sex education with emphasis on selected independent study. *Prereq.:* HPER-HLED-303

HPER-HLED-307 Human Diseases, 3 cr. Nature, prevention, control, and treatment of communicable, chronic, and degenerative diseases, the general principles of resistance and causality of disease; man's interaction with his environment and total pattern of living as the primary source of disease.

HPER-HLED-308 Principles of Individual Health Practices, 3 cr. Independent study of a health problem in depth. Arrangement of subject, research, and follow-up with instructor. *Prereq.:* consent of instructor.

HPER-HLED-310 Advanced First Aid and Emergency Care, 4 cr. Designed to develop the functional first aid capabilities required of policemen, firemen, emergency squad members, ambulance attendants, and others, who as a part of their daily routine may be required to provide the initial emergency care necessary to sustain life until the victim of an accident or sudden illness is cared for by qualified medical personnel.

HPER-HLED-311 Advanced First Aid Instructor, 1 cr. Preparation for teaching the American Red Cross Advanced First Aid and Emergency Care course in the schools or community. Appropriate for all students desiring to serve in the community. Students must be at least 21 years of age at the beginning of the course to earn an American Red Cross Advanced First Aid and Emergency Care Instructor's Certificate. *Prereq.:* consent of instructor.

HPER-HLED-312 Current Health Concepts, 3 cr. Advanced study and application of health sciences, human ecology health conservation, and the quality of life which encourages the attainment of optimal health. Emphasis upon the wholistic lifestyle.

HPER-HLED-313 Assessment and Evaluation in Health Education, 3 cr. Prepares future health professionals in the methods and procedures of health education assessment and evaluation. Included are methods for monitoring the implementation of health education programs, methods for assessing the impact and effectiveness of such programs, and methods for developing valid and reliable health education measures.

HPER-HLED-314 Principles of Epidemiology in Health Education, 3 cr. Presents principles and practices related to the cause, prevention, and control of disease. Emphasis is placed on understanding the occurrence and distribution of disease, epidemiologic models, risk factors and relative risk for disease, incidence and prevalence rates, and descriptive and analytic epidemiological studies. Additional emphasis is placed on the application of epidemiologic data to primary, secondary, and tertiary prevention.

Leisure Studies

HPER-LEST-201 Principles and Practices of Recreation and Leisure, 3 cr. Development of the recreation movement relative to leisure time. Emphasis on the principles and practices relative to a recreation and leisure program.

HPER-LEST-202 Camping and Outdoor Recreation, 3 cr. Present status, purposes, and organization administration of outdoor recreation programs for public, voluntary, and commercial agencies. Organization and administration of camps; program planning and staffing; health and safety.

HPER-LEST-204 Leisure, Culture, and Society, 3 cr. The relationship of social structure to leisure; the impact of leisure on values; recreation as a social and socializing leisure activity. Comparative studies of leisure, leisure values, and leisure activities in different culture and sub-cultures.

HPER-LEST-302 Leisure Economics, 3 cr. Leisure phenomena and the work ethic; the impact of leisure on the economy; the economic significance of discretionary time, discretionary income, and discretionary values.

HPER-LEST-304 Organization and Administration of Leisure Programs, 3 cr. An examination of the organization and administration of recreation and leisure programs in public and private agencies. Included will be an emphasis on personnel, programs, evaluation, finance, and liability.

Physical Education Major Activity

HPER-PEMA-151 Fundamentals of Rhythms, 3 cr. Includes basic axial and locomotor movements, spontaneous and planned interpretive response, knowledge of the aspects of rhythm, designing of a rhythm instrument, dramatization, marching patterns; rhythmic activities utilizing basic dance steps, and beginning folk and square dance.

HPER-PEMA-152 Judo and Self-Defense, 1 cr. Examination and practical application of judo and self-defense techniques. Special emphasis on proper training methods, physical conditioning, teaching techniques, and rules and regulations in contests.

HPER-PEMA-153 Foil Fencing, 1 cr. Instruction and drills in basic skills: footwork, lunge, simple and compound attacks, various defensive maneuvers, offensive and defensive strategies. Rules, judging and directing, bouts and tournaments.

HPER-PEMA-161 Badminton, 1 cr. Introduction to basic skills: clear shots, serves, drop shots, smashes, offensive and defensive strategies. Rules, singles and doubles; tournaments.

HPER-PEMA-162 Bowling, 1 cr. Theory and practice; rules, regulations, skill practice, tournament play and handicapping, and coaching.

HPER-PEMA-163 Golf, 1 cr. Instruction designed for beginning and experienced golfers in proper use of woods; long, middle, and short iron shots; putting, and specialty shots. Etiquette and rules of golf; visitations to driving range and golf course.

HPER-PEMA-165 Tennis, 1 cr. Instruction designed for the beginning player with major emphasis on the serve, forehand/backhand ground strokes. Additional instruction with the lob, volley, and overhead. Singles/doubles play and strategies. Rules, tennis etiquette, and tournaments.

HPER-PEMA-166 Recreational Games, 1 cr. Choosing, teaching, and organizing informal recreational activities, including non-traditional, creative activities, sedentary, competitive and cooperative play situations.

HPER-PEMA-167 Field Hockey, 1 cr. History, theory and practice, rules and regulations, skill practices, purchase and care of equipment, team organization, strategy, competition, and safety measures.

HPER-PEMA-171 Softball, 1 cr. Emphasis on basic softball skills, team offensive and defensive strategies, rules, interpretations, and umpiring mechanics with practical umpiring experience during games.

HPER-PEMA-172 Basketball, 1 cr. Review of skills with emphasis on team drills and team play. Thorough coverage of rules and mechanics of officiating. Practical use of officiating techniques during games. Team tournaments as well as a one-on-one tournament.

HPER-PEMA-173 Volleyball, 1 cr. Basic instruction in power volleyball skills; serving, passing, spiking. Offensive and defensive team play, rules, strategies, and tournaments.

HPER-PEMA-181 Advanced Swimming Techniques, 1 cr. Instruction in the basic strokes and in elementary diving front and back, safety skills in and near the water, and activities to increase endurance and respond appropriately should injury occur. *Prereq.: HPER-PESV-105 or consent of instructor.*

HPER-PEMA-200 Lifeguarding, 2 cr. Lifeguarding is the application of specific skills, knowledge, and techniques to prevent or handle aquatic accidents. The purpose of this course is to teach necessary competencies so an individual exercises every caution to avoid any action or lack of action which can contribute to injury. *Prereq.: Intermediate Swimming level or Advanced Swimming level.*

HPER-PEMA-201 Racquetball, 2 cr. Introduction to basic and advanced skills: serves, kill shots, passing shots, ceiling shots; use of back wall and corners; offensive and defensive strategies; singles, doubles, cutthroat play; tournaments.

HPER-PEMA-203 Weight Training, 2 cr. Basic principles of weight training and its effects on the body; proper lifting and training technique, individualized programs for general fitness or athletics, isometrics, and safety procedures.

HPER-PEMA-204 Weight Training—Variable Resistance Method, 2 cr. Variable resistance of weight training with instruction on structure and function of variable resistance machines. Training principles, safety procedures and techniques applied to individualized basic workout.

HPER-PEMA-231 Individual and Dual Sports, 3cr. Analysis of sports skills used in common individual and dual activities. Organization and sequencing of skills, practice sessions, lead-up activities and drills as well as rules, strategies, tournaments and safety concerns will be addressed.

HPER-PEMA-250 Judo and Self-Defense; Intermediate, 1 cr. Practical application of various intermediate judo and self-defense techniques, mat holds, escapes, and chokes. Continued emphasis on proper training methods, physical conditioning, teaching techniques, and rules and regulations in contests. *Prereq.:* HPER-PEMA-152 or consent of instructor.

HPER-PEMA-252 Folk, Round, and Square Dance, 1 cr. Development of knowledge and skill in folk, national and square dances, experience in square dance calling, and methods of class organization and teaching.

HPER-PEMA-253 Social Dance and Latin American Rhythms, 1 cr. Practice in basic patterns and routines of ballroom dances, developing a finer sense of rhythm, greater adeptness, comprehension, and opportunity to design routines.

HPER-PEMA-265 Intermediate Tennis, 2 cr. Review of the forehand and backhand ground strokes, the flat serve, basic strategy, rules and etiquette. Introduction to intermediate skills such as the volley, the lob, drop shots, passing shots, and the overhead. Additional emphasis on topspin ground strokes, advanced singles and doubles strategies, and tournament play. *Prereq.:* HPER-PEMA-165 or consent of instructor.

HPER-PEMA-271 Track and Field, 1 cr. Theory and practice: terminology and fundamental skills of track and field events and cross-country, techniques of physical conditioning; safety measures.

HPER-PEMA-272 Intermediate Volleyball, 2 cr. Review of basic fundamentals, introduction of intermediate skills and progressions, officiating and tournaments, offensive and defensive strategies. *Prereq.:* HPER-PEMA-173 or consent of instructor.

HPER-PEMA-276 Team Sports, 3 cr. Theory, skill and practice in common sports with emphasis on lead-up games and drills. Skill analysis, lessons and focused practice as well as team play tournaments and safety measures will be covered.

HPER-PEMA-277 Foundations of Wrestling, 1 cr. History, skills, practice, strategy and safety practice; rules, regulations, contest, tournaments; officiating; scoring.

HPER-PEMA-280 Basic Skin Diving, 1 cr. Introduction of the swimmer to underwater activity through the use of fins, mask, and snorkel. *Prereq.:* HPER-PESV-105 or consent of instructor.

HPER-PEMA-282 Swimming Fitness, 2 cr. To introduce the swimmer to the process of physical conditioning through aquatics. To define and use the different training methods in conditioning swimmers (warm-ups, phases, pacing, fatigue, and staleness). To practice different swim strokes and perfect techniques used in each. To help each swimmer set goals that can realistically be achieved. To make each swimmer safer and more self-reliant in and around water. *Prereq.:* HPER-PESV-105 or consent of instructor.

HPER-PEMA-283 Water Aerobics 2 cr. Swimming is one of the best physical activities for people of all ages. Vigorous water activities can make a major contribution to the flexibility, strength, and circulatory endurance of individuals.

HPER-PEMA-288 Flatwater Canoeing, 2 cr. Flatwater canoeing is a skill acquisition and teaching methodology course which covers flatwater canoeing technique, safety, and technical knowledge. *Prereq.:* HPER-PESV-104 or consent of instructor.

HPER-PEMA-290 Kayaking and Decked Boat Paddling, 2 cr. Decked boat paddling is a skill acquisition and teaching methodology course which utilized kayaks and decked boats. *Prereq.:* HPER-PESV-105 or consent of instructor.

HPER-PEMA-293 Scientific Foundations of Motor Learning, 3 cr. Introduction to the philosophy, and practice of developing body movement skills through creative movement experiences. Laban oriented movement challenges in rhythms, games, and self-testing activities.

HPER-PEMA-301 Projects in Physical Education, 2 cr. Organization and administration of special physical education projects; athletic days, tournaments, fun-nites, supervisory duties and responsibilities. *Prereq.:* consent of instructor.

HPER-PEMA-332 Yoga: Philosophy and Practice, 3 cr. Introduction to the philosophy and practice of yoga. The philosophical view will be based on Patanjali's yoga system. In addition, proper breathing techniques, nutrition, positive thinking, relaxation, concentration and stress management will be covered.

HPER-PEMA-333 Yoga II, 3 cr. This course will emphasize advanced yoga philosophy and practices. In addition, advanced breathing techniques, relaxation poses, concentration and task performance functions of mind, physical health and stress management will be emphasized.

HPER-PEMA-341 Foundations of Physical Education for Elementary Schools, 3 cr. Participation in warm-up and day's order activities, low organized and lead up games, tactics. Teaching methods and materials; purchase and care of equipment; safety measures; progressions and skill practice. Program planning in physical education for elementary schools; includes 45 hours of clinical experience. *Prereq.:* consent of instructor.

HPER-PEMA-344 Foundations of Physical Education for Secondary and Middle Schools, 3 cr. Basic principles of physical health through participatory activities with special emphasis upon theory, methodology, and materials; participation in warm-up and day's order activities, low-organized and lead-up games, tactics; purchase and care of equipment; program planning in physical education for secondary schools. Includes 90 hours of clinical experience; covers H.B. 150. *Prereq.: consent of instructor.*

HPER-PEMA-350 Judo and Self-Defense: Advanced, 1 cr. Advanced judo and self-defense techniques, their combinations, counters, defenses, and escapes. Learning various stages of the nage-no-kata, and the katame-no-kats.

Prereq.: HPER-PEMA-250 or consent of instructor.

HPER-PEMA-381 Water Safety Instructor, 2 cr. Work leading to certification by the American Red Cross as a Water Safety Instructor; review of life saving, swimming strokes, diving and stunts; emphasis on practical teaching experiences. *Prereq.: Lifeguard Certification.*

HPER-PEMA-382 Scuba, 2 cr. Development of knowledge, skills and attitudes necessary to participate safely in water activities using self-contained underwater breathing apparatus.

Prereq.: HPER-PESV-106 or consent of instructor.

HPER-PEMA-383 Scuba: Open Water, 2 cr. Introduction to open water scuba diving, underwater skills, and safety procedures. *Prereq.: HPER-PEMA-382, and consent of instructor.*

Physical Education Major Theory

HPER-PEMT-201 Principles and Methods in Physical Education, 3 cr. Principles, methods, aims, and objectives of physical education; the place of physical education in the school curriculum; general and specific objectives; general techniques in teaching; principles of selecting content; progressions, building curricula to fit varying schools; lesson planning, leadership, and squad organizations; co-operation with teachers, supervisors, and administrators.

HPER-PEMT-202 Tests and Measurements in Physical Education, 3 cr. History of measurement in physical education; selection and evaluation of available measures; statistical techniques commonly used in physical education; construction and uses of tests; administering the testing program; interpretation and application of results.

HPER-PEMT-203 Field Experiences, 3 cr. Field work in health, physical education, or recreation. Preparation of a paper on the nature of the student's work, objectives, and experiences. *Prereq.: consent of instructor.*

HPER-PEMT-205 Nutrition, Weight Control and Exercise, 3 cr. Principles of exercise and nutrition as they apply to fitness and weight control. Special emphasis is directed toward the management of these variables in influencing body composition, lean body weight, growth, and physical performance. A class experiment will help show the effects of behavior modification on weight control. Additional topics will include the effects of aging, sexual differences, and various physical activities on body composition and fitness.

HPER-PEMT-220 Introduction to Adventure Education, 3 cr. The student will learn outdoor skills with practical knowledge, safety, and concern for the environment being the main objective. In addition, the student will develop problem solving and critical thinking skills through a series of physically and mentally challenging tasks. A weekend outdoor trip is required.

HPER-PEMT-301 Physical Education Seminar, 2 cr. Discussion of student teacher's problems; conferences and counseling with department staff members; physical education lesson planning and discussions; positive disciplinary control.

Prereq.: consent of instructor.

HPER-PEMT-302 Kinesiology, 3 cr. A systematic approach to the analysis of the responses of the human organism to both internal and external forces. The human body as an instrument for solving environmental challenges in movement will be investigated from both qualitative and quantitative perspectives. *Prereq.: six credit hours in general biology. A preparatory course in anatomy/physiology strongly recommended.*

HPER-PEMT-303 Adapted Physical Education and Recreation, 3 cr. Examines the physical education and recreation program for the handicapped and other atypical populations; history, scope, purpose, and development of these programs. Field work and visits to various agencies included in these programs.

HPER-PEMT-304 Athletic Training, 3 cr. Techniques, practices, problems and theories pertaining to athletic conditioning, prevention, treatment and care of athletic injuries. Organization, supervision, and administration of an athletic training program in secondary schools or colleges. *Prereq.: HPER-PEMT-302.*

HPER-PEMT-305 Functional Human Anatomy, 4 cr. A gross study of all organ systems of the human body and their structural relationships. A unique experiential approach to Anatomy including a "dry" lab with lifelike models.

HPER-PEMT-311 Coaching and Team Management—High School, 3 cr. Administration, theory, and practical study relating to the area of coaching and management of high school teams; scouting and planning; special emphasis given to methodology by means; includes 60 hours of clinical experience.

HPER-PEMT-312 Sport and Society, 3 cr. Course investigates the functions and disfunctions of sport as a social entity. Examines the impact of sport on society and its institutions.

HPER-PEMT-321 Intramurals—High School, 3 cr. Administration, theory, practice, aims, objectives, and methods of intramural programs: students participate in setting up and conducting intramural events; includes 80 hours of clinical experience; covers H.B. 150.

HPER-PEMT-341 Organization and Management of Physical Education Classes, 3 cr. Organizational techniques for the efficient use of physical education facilities with special emphasis upon management and methodology in instruction; attention is given to class control methods, safety, use, storage, and repair of equipment; student participation in various events throughout course; includes 80 hours of clinical experience.

HPER-PEMT-342 Pro-Seminar in Health, Physical Education, and Recreation, 3 cr. Intensive studies in contemporary areas of health, physical education and recreation. *Prereq.:* consent of instructor.

HPER-PEMT-351 Independent Study in Physical Education, 1 cr. Special project of the student's choosing relating to some facet of physical education. *Prereq.:* consent of instructor.

HPER-PEMT-352 Independent Study in Physical Education, 2 cr. (See HPER-PEMT-351 for description.)

HPER-PEMT-353 Independent Study in Physical Education, 3 cr. (See HPER-PEMT 351 for description.)

HPER-PEMT-361 Aerobics and Cardiovascular Fitness, 2 cr. An analysis of the factors and exercises essential to cardio-vascular fitness. Emphasis upon the development of a personal aerobics exercise program.

HPER-PEMT-372 Adventure Education Curriculum Design: An Interdisciplinary Application, 3 cr. Course will focus on how to integrate an interdisciplinary adventure-based program into traditional school curricula. The following topics will be investigated: Philosophical knowledge of adventure education, liability and safety in program design, and developing interdisciplinary education units.

HPER-PEMT-373 Outdoor Leadership Skills in Adventure Education, 3 cr. Leadership skills focuses upon theories, techniques, and styles necessary for successful outdoor adventure leaders and the development of those skills on an individual basis.

Physical Education Service

HPER-PESV-104 Beginning Swimming, 1 cr. For non swimmers or beginners; development of skills in elementary strokes, diving and safety.

HPER-PESV-105 Intermediate Swimming, 1 cr. Review of elementary strokes; development of skills in advanced strokes, diving and safety. *Prereq.:* HPER-PESV-104 or consent of instructor.

HPER-PESV-127 Latin-American Dance, 1 cr. Latin-American dance skills; choreographic development of dance routines; historical and cultural aspects of Latin-American social dances.

GRADUATE PROGRAM

Master of Science in Exercise Science

NOTE: This degree program is expected to admit students for Fall, 2003 (application process beginning Spring, 2003). Applications for this program are accepted for FALL SEMESTER admission only.

The mission of the Exercise Science Graduate Program is to promote fitness, wellness, and optimal human performance through teaching, research, and service in the exercise sciences. The Program seeks to advance the exercise science disciplines through discovery and dispersion of health- and exercise-related knowledge. A critical aspect of these efforts is to provide students with the knowledge and skills for advanced study of careers in the exercise science-related

fields, and to develop graduates who are self-reflective professionals and lifelong learners.

Students pursuing the M.S. in Exercise Science choose either a thesis or non-thesis option in one of two degree concentrations: Fitness and Wellness (FW), or Human Performance (HP). The diverse two-track curriculum can provide the students with multiple career opportunities as well as prepare students for doctoral work in one of the specific exercise science disciplines, particularly if the thesis option is selected.

Admission Requirements

- Students must fulfill requirements for admission to the Graduate College at Northeastern Illinois University. Application packets can be obtained from the Graduate College. When filling out the application packet, the student should be sure to:
 - specify on the application the degree concentration for which he/she is applying (M.S. in Exercise Science-FW or M.S. in Exercise Science-HP).
 - note in the goals/objectives section whether or not he/she would be willing to enter into the other degree concentration if there are no openings in the preferred degree concentration.
 - note in the goals/objectives section if he/she is interested in receiving a graduate assistantship. If so, he/she should be sure to detail his/her assistantship interests (i.e., teaching undergraduate activity courses, teaching undergraduate exercise science laboratories, assisting faculty teaching, assisting faculty research, and/or campus recreation/fitness/ wellness).
- Satisfactory completion of at least the following, or equivalent, undergraduate coursework is required (NEIU equivalent courses are noted parenthetically):

Fitness and Wellness Concentration (~21 credit hours)

 - general biology (BIOL-102)
 - general chemistry (CHEM-211)
 - general psychology (PSYC-200)
 - human anatomy (HPER-PEMT-305)
 - exercise physiology (HPER-ESCR-204)
 - fitness concepts (HPER-PEMT-205)
 - health/wellness concepts (HPER-HLED-107)

Human Performance Concentration (~21 credit hours)

 - general biology (BIOL-102)
 - general chemistry (CHEM-211)
 - general psychology (PSYC-200)
 - human anatomy (HPER-PEMT-305)
 - exercise physiology (HPER-ESCR-204)
 - biomechanics (HPER-PEMT-302)
 - motor learning (HPER-PEMA-293)
- Two letters of recommendation.
- An educational background and/or employment experience in fitness, wellness, human performance, or the exercise sciences is preferred.

Dr. Christopher M. Hearon, Program Coordinator
773-442-4818
c-hearon@neiu.edu

Required Courses

Fitness and Wellness Concentration (FW)

Core Coursework (9 courses = 27 credit hours):

HPER-EXSC-401: Exercise Physiology I
HPER-EXSC-402: Exercise Physiology II
HPER-EXSC-403: Research Methods & Statistical Analyses
HPER-EXSC-404: Exercise Testing & Prescription
HPER-EXSC-405: Applied Nutrition for Health & Performance
HPER-EXSC-411: Behavioral Aspects of Health & Wellness
HPER-EXSC-412: Current Topics in Fitness & Wellness

Plus one of the following two courses:

HPER-EXSC-413: Program Development/Management in the Fitness Industry
HPER-EXSC-414: Program Development/Management in Health Promotion

Plus one of the following two courses:

HPER-EXSC-415: Exercise Management Chronic Diseases and Disabilities
HPER-EXSC-416: Practices in Cardiac Rehabilitation

Elective Coursework (2-3 courses = 9 credit hours):

HPER-EXSC-413: Program Development/Management in the Fitness Industry*
HPER-EXSC-414: Program Development/Management in Health Promotion*
HPER-EXSC-415: Exercise Management Chronic Diseases and Disabilities*
HPER-EXSC-416: Practices in Cardiac Rehabilitation*
HPER-EXSC-417: Human Sexuality
HPER-EXSC-430: Internship†
HPER-EXSC-431: Independent Study/Research
HPER-EXSC-432: Thesis Research (6 credit hours)‡
HPER-EXSC-433: Performance-Related Injury Management
HPER-EXSC-434: Physiology of Aging & Physical Activity
COUN-424: Stress Management
or other courses as approved by the EXSC advisor.

*Course is an approved elective only if it was not taken in the student's core coursework.

†As determined by the EXSC advisor, some students might be required to take this course in their elective coursework (i.e., some students may be required to perform an internship).

‡Course is reserved for THESIS OPTION students only. Thesis option students are required to take this course in their elective coursework. This course is a 6 credit hour course (i.e., twice the credit hours of the other courses).

Human Performance Concentration (HP)

Core Coursework (9 courses = 27 credit hours):

HPER-EXSC-401: Exercise Physiology I
HPER-EXSC-402: Exercise Physiology II
HPER-EXSC-403: Research Methods & Statistical Analyses
HPER-EXSC-404: Exercise Testing & Prescription
HPER-EXSC-405: Applied Nutrition for Health & Performance
HPER-EXSC-421: Motor Control & Learning
HPER-EXSC-422: Biomechanics
HPER-EXSC-423: Psychology of Human Performance
HPER-EXSC-424: Current Topics in Human Performance

Elective Coursework (2-3 courses = 9 credit hours):

HPER-EXSC-425 : Exercise & Environmental Physiology
HPER-EXSC-426: Growth, Maturation & Performance
HPER-EXSC-427: Competitive Performance in the Disabled
HPER-EXSC-428: Female-Specific Performance Issues
HPER-EXSC-430: Internship†
HPER-EXSC-431: Independent Study/Research
HPER-EXSC-432: Thesis Research (6 credit hours)‡
HPER-EXSC-433: Performance-Related Injury Management
HPER-EXSC-434: Physiology of Aging & Physical Activity
or other courses as approved by the EXSC advisor.

†As determined by the EXSC advisor, some students might be required to take this course in their elective coursework (i.e., some students may be required to perform an internship).

‡Course is reserved for THESIS OPTION students only. Thesis option students are required to take this course in their elective coursework. This course is a 6 credit hour course (i.e., twice the credit hours of the other courses).

Culminating Requirements for the Degree

Thesis Option Students

In addition to satisfactorily completing the required concentration-specific coursework, thesis option students will be required to satisfactorily prepare a written presentation of their thesis research, and orally present and defend their thesis research prior to earning the degree.

Non-Thesis Option Students

In addition to satisfactorily completing the required concentration-specific coursework, non-thesis option students are required to satisfactorily complete written comprehensive examinations over critical areas of their coursework prior to earning the degree.

COURSE OFFERINGS

HPER-EXSC-401: Exercise Physiology I, 3 cr. The course provides instruction in the bioenergetics of human movement. Specifically, cellular metabolism and its neuroendocrine control, at rest and in response to both acute and chronic exercise, will be discussed. Additionally, the processes and control of transcription, protein synthesis, and protein degradation will be covered. *Prereq:* EXSC graduate standing or instructor consent.

HPER-EXSC-402: Exercise Physiology II, 3 cr. The course provides advanced instruction in the functioning of the respiratory, cardiovascular, and skeletal muscular systems at rest and during exercise. Specifically, the course will provide instruction in pulmonary ventilation, myocardial functioning, circulatory response, and skeletal muscle contraction, as well as neuroendocrine control of these processes, at rest and during exercise. Additionally, the exercise-specific application of these physiological processes will be discussed in reference to strength/endurance exercise training adaptations, neuromuscular fatigue, ergogenic aids (i.e., human performance enhancement substances), gender-related performance differences, and youth exercise/performance. **Prereq:** EXSC graduate standing and HPER-EXSC-401, or instructor consent.

HPER-EXSC-403: Introductory Research Methods and Statistical Analyses, 3 cr. The course provides an introduction to a number of basic research designs and the appropriate parametric and/or non-parametric statistical tests for the analysis of data collected using these designs. Additionally, the students will be given an overview of the research process, the various types of research, and the various avenues for research presentation. **Prereq:** EXSC graduate standing or instructor consent.

HPER-EXSC-404: Exercise Testing and Prescription, 3 cr. The laboratory portion of the course provides instruction and experience in the performance of laboratory and field tests for the measurement of variables needed to evaluate the health-related fitness components (i.e., cardiorespiratory endurance, muscular strength/endurance, muscular flexibility, and body composition). The lecture portion of the course focuses on the physiological rationale for these tests and covers the procedures for utilizing the information collected in laboratory and field testing. Specifically, students will be instructed on the evaluation the health-related fitness status of tested individuals and on the prescription of exercise training regimens for health-related fitness status alteration and physical performance enhancement. **Prereq:** EXSC graduate standing, HPER-EXSC-402, HPER-EXSC-403, and current CPR certification, or instructor consent.

HPER-EXSC-405: Applied Nutrition for Health and Performance, 3 cr. The course provides instruction in macronutrient requirements at rest and during exercise, energy balance for body composition alteration or maintenance (i.e., obesity prevention), fluid and electrolyte balance during exercise, and the vitamin/mineral concerns associated with exercise and performance. Additionally, the course will consider the preventative role of nutrition in various disease states including cardiovascular disease, degenerative bone disease, and diabetes. **Prereq:** EXSC graduate standing and HPER-EXSC-401, or instructor consent.

HPER-EXSC-411: Behavioral Aspects of Health and Wellness, 3 cr. The course provides instruction in the psychophysiological relationship between lifestyle behavior and wellness, as well as behavioral management and modification programs that encourage optimal health and

wellness. Discussions will center on the relationships between behavior, stress, pain, and chronic disease. The topics of injury risk reduction, addictive behavior, substance abuse, and eating behavior will also be covered. **Prereq:** EXSC graduate standing and HPER-EXSC-402, or instructor consent.

HPER-EXSC-412: Current Topics in Fitness and Wellness, 3 cr. The course provides students with the opportunity to explore the current research in the areas of fitness and wellness. Additionally, students are provided with a venue in which to discuss, with their peers and their professors, these topics salient to their professional growth and development. Understanding of these current topics is evaluated through the students' written reviews, oral presentations, and participation in class discussion of the literature. **Prereq:** EXSC graduate standing, HPER-EXSC-403, and instructor consent.

HPER-EXSC-413: Program Development and Management in the Fitness Industry, 3 cr. The course provides instruction in the area of organizational development and management in the corporate, commercial, and institutional fitness industries. Specifically, an overview and the underlying principles of operating fitness facilities, sales/marketing strategies, member/staff recruitment/management practices, program/specialized program management, equipment purchase/maintenance, health/safety considerations, facility development/management, financial management, legal issues, and insurance considerations will be discussed. **Prereq:** EXSC graduate standing or consent of instructor.

HPER-EXSC-414: Program Development and Management in Health Promotion, 3 cr. The course provides instruction in the area of organizational development and management in the health promotion field. Specifically, the procedures for needs assessment, planning, implementation, resource identification/ allocation, marketing, and evaluation for health promotion programs will be discussed. **Prereq:** EXSC graduate standing or consent of instructor.

HPER-EXSC-415: Exercise Management in Chronic Diseases and Disabilities, 3 cr. The course expands on the exercise testing and prescription information covered in HPER-EXSC-404 to include special populations with chronic disease and/or disabilities. The course provides a pathophysiological overview of various cardiovascular, pulmonary, metabolic, immunological/hematological, orthopedic, neuromuscular, cognitive, emotional, and sensory disorders. A major portion of the course deals with exercise management in people with these diseases/disabilities and, in particular, instruction on the special exercise testing and prescription considerations for these populations (e.g., abnormal exercise response potential, exercise interaction with commonly prescribed medication, etc.). **Prereq:** EXSC graduate standing and HPER-EXSC-404, or instructor consent.

HPER-EXSC-416: Practices in Cardiac Rehabilitation, 3 cr. The course provides the student with a concise and comprehensive overview of the research and currently accepted professional practice in the fields of heart disease primary prevention and cardiac rehabilitation. Specifically, the epidemiology, pathophysiology, diagnosis, and treatment

of heart disease will be discussed. Included in these discussions will be the diagnostic and prognostic use of exercise testing in cardiac patients. Additionally, a significant portion of the course will cover cardiovascular disease risk factor modification and the rehabilitation cardiac patients, including exercise prescription guidelines for this special population. *Prereq:* EXSC graduate standing and HPER-EXSC-404, or instructor consent.

HPER-EXSC-417: Human Sexuality , 3 cr. The course provides instruction in the anatomical, physiological, developmental, psychosocial, cultural, and health-related aspects of human reproduction and sexuality. The primary goal of the course is to enhance student understanding and comfort with regard to these topics. *Prereq:* EXSC graduate standing or instructor consent.

HPER-EXSC-421: Motor Control and Learning, 3 cr. The course provides instruction in how humans control locomotion and how they learn/re-learn motor skills. Specifically, the course emphasizes the observable behavioral aspects of motor control/learning while detailing the neurophysiological and biomechanical processes that result in the aforementioned motor behaviors. *Prereq:* EXSC graduate standing, HPER-EXSC-403, or consent of instructor.

HPER-EXSC-422: Biomechanics, 3 cr. The course provides instruction in how the interaction between anatomy, physiology, and the laws of physics affect and control human movement and performance. Specifically, the biomechanical aspects of work and energy, balance and movement control, force load and force production, and fatigue during exercise and performance will be discussed. *Prereq:* EXSC graduate standing, HPER-EXSC-402, HPER-EXSC-403, or consent of instructor.

HPER-EXSC-423: Psychology of Human Performance, 3 cr. The course provides instruction in the social and applied psychological aspects of exercise and human performance. Specifically, the individual characteristics, motivation, psychological interventions, and social processes that influence exercise and human performance behaviors will be discussed. *Prereq:* EXSC graduate standing or consent of instructor.

HPER-EXSC-424: Current Topics in Human Performance, 3 cr. The course provides students with the opportunity to explore the current research in the areas human performance and exercise. Additionally, students are provided with a venue in which to discuss, with their peers and their professors, these topics salient to their professional growth and development. Understanding of these current topics is evaluated through the students' written reviews, oral presentations, and participation in class discussion of the literature. *Prereq:* EXSC graduate standing, HPER-EXSC-403, and instructor consent.

HPER-EXSC-425: Exercise and Environmental Physiology, 3 cr. The course provides instruction on how the human body functions in stressful environments, and how these environments may alter human performance. Specifically, the effect of heat/humidity, cold/windchill, depth, altitude, and air pollution on the physiology of the resting and exercising human body will be discussed. *Prereq:* EXSC graduate standing and HPER-EXSC-402, or instructor consent.

HPER-EXSC-426: Growth, Maturation, and Performance, 3 cr. The course provides instruction on the biological growth and maturation processes, the effects of physical activity on child and adolescent growth, and the physical performance ability variations seen throughout growth and maturation. Included will discussions on the age-/gender-variations in growth and performance, the factors regulating/influencing growth, maturation and performance, the chronic disease and injury risk factors in children, and other critical issues that must be considered when dealing with physical performance in children and adolescents. *Prereq:* EXSC graduate standing, HPER-EXSC-402, HPER-EXSC-405, and HPERA-EXSC-421, or instructor consent.

HPER-EXSC-427: Competitive Performance in the Disabled, 3 cr. The course provides instruction on the history, current status, and future directions of disability sport within our society. Specific discussions will include the psychosocial and medical issues that must be considered when working with the physically active disabled, and the existing sports, sport modifications, participation opportunities, and participation barriers for individuals with performance-altering impairments.

Prereq: EXSC graduate standing or instructor consent.

HPER-EXSC-428: Female-Specific Performance Issues, 3 cr. The course provides instruction on critical medical, physiological, psychosocial, and behavioral issues for the physically active female from prepubescence through maturity. The female-specific topics to be discussed relative to exercise and performance include physiology, potential injury risks, physical and hormonal variations, health issues, activity and aging, exercise training prescription, substance abuse, eating disorders, and the psychosocial attitudes towards the athletic female. *Prereq:* EXSC graduate standing, HPER-EXSC-402 and HPERA-EXSC-405, or instructor consent.

HPER-EXSC-430: Internship, 3 cr. The course provides students the opportunity to gain practical exercise science (e.g., fitness, wellness, or human performance) career experience in corporate, commercial, institutional, community, educational, rehabilitative or research settings. *Prereq:* EXSC graduate standing and instructor consent.

HPER-EXSC-431: Independent Study/Research, 3 cr. The course affords students the opportunity to conduct an independent experimental, descriptive, analytical, or qualitative research project within the exercise sciences. The credit hours can also be used for faculty-monitored learning of advanced laboratory methodology not covered in the current curriculum. Planning of the proposed research project or independent study must be supervised and approved by an HPER-EXSC faculty member prior to course enrollment approval. Submission of a written report of the completed research project or independent study will be required for all students. *Prereq:* EXSC graduate standing HPER-EXSC-403, and instructor consent.

HPER-EXSC-432: Thesis Research, 6 cr. For those students selecting the Thesis Option for the Master of Science in Exercise Science degree, the course provides faculty guidance in the areas of research question development, research design, data analyses, data interpretation, written research presentation, and oral research presentation. *Prereq:* HPER-EXSC-403, M.S. in Exercise Science candidacy, and instructor consent.

HPER-EXSC-433: Performance-Related Injury Management, 3 cr. The course provides instruction in the prevention and management of injuries related to human performance. The topics discussed include an overview of the athletic training profession, techniques for injury risk management, the pathology of injury, various injury management skills (e.g., psychosocial intervention, injury evaluation/emergency care, therapeutic modalities, exercise rehabilitation, and pharmacology), and an overview of the evaluation, care, and rehabilitation of various specific performance-related injuries. *Prereq:* EXSC graduate standing, HPER-EXSC-402, and HPER-EXSC-405, or instructor consent.

HPER-EXSC-434: Physiology of Aging and Physical Activity, 3 cr. The course provides instruction in the theories of the aging process and the age-related changes in the functioning of various physiological systems. Specifically, the age-related changes in bioenergetics, work capacity/efficiency, cardiopulmonary function, muscular strength/endurance, motor control, motor performance, and psychosocial functioning, among other variables, are discussed. Additionally, the potential role of physical activity and exercise in the alteration of these age-related changes, quality of life indices, functional capacity, and productivity in the elderly will be presented. *Prereq:* EXSC graduate standing and HPER-EXSC-402, or instructor consent.

SPECIAL EDUCATION

David Yasutake, Ph.D., Professor, Chair
 Sandra Beyda, Ph.D., Associate Professor
 Barry Birnbaum, Ed.D., Associate Professor
 Rosemary Egan, Ph.D., Professor
 Ellen Fiedler, Ph.D., Professor
 Edmund Hunt, Ph.D., Professor
 Kenneth James, Ph.D., Associate Professor
 Effie Kritikos, Ph.D., Assistant Professor
 Jeffrey Messerer, Ph.D., Professor
 Lynne Reynolds, Ph.D., Professor
 Thomas Schevers, Ph.D., Associate Professor
 Patricia Walsh, Ed.D., Professor

The Special Education Department has as its primary aim, the education of teachers and as a long-range goal, the preparation of professionals with the potential for providing significant leadership in the field.

The Special Education faculty trains teachers in adherence to the belief that every individual is entitled to a free and appropriate public education, provided by trained teachers in a setting which represents the least restrictive environment. Students develop their knowledge and skills in the field of Special Education in general, and in one or more areas of emphasis.

The William Itkin Children's Service Center located within the special education department is designed to provide assessment and remediation of learning and behavior problems in school-age students and to provide training to graduate students.

UNDERGRADUATE PROGRAM

Major in Special Education for the Bachelor of Arts Degree

The major in Special Education is designed to meet state teacher certification requirements by training students to be knowledgeable and skilled regarding the education of all school aged children and adolescents with disabilities. The program consists of a 49 credit hour major plus a 21-24 credit hour cognate (in lieu of a minor). Majors are selected in Fall semesters to begin studies the following Spring. Majors progress through the program as a cohort. Most coursework is offered during daytime hours.

Requirements for the Degree:

The program is divided into three levels. Progress through each level is contingent upon the successful completion of both prescribed coursework and program benchmarks.

Coursework

Level 1

Spring I

EDFN-306: Education and Individual Differences
 ELED-311: Public School Curriculum
 SPED-371: Foundations of Special Education

Summer I

EDFN-307: Psychology of Instruction and Learning
 ELED-302: Methods of Teaching Language Arts-Elementary School

Level 2

Fall I

SPED-372: Development & Characteristics of Children and Youth w/Disabilities I: Higher Incidence
 SPED-373: Teaching Learners w/ special needs I
 SPED-374: Clinical Experience I
 SPED-380: Assessment of Exceptional Individuals and Diverse Populations (4 credits Hrs)

Spring II

SPED-375: Development and Characteristics of Children and Youth w/Disabilities II: Lower Incidence
 SPED-376: Teaching Learners with Special Needs II
 SPED-377: Clinical Experiences II
 SPED-379: Managing Behaviors in the Classroom

Summer II

SPED-323: Consultation and Collaboration in Special Education
 SPED-378: Alternative Curriculum and Methods

Fall II

ELED-306B: Methods of Teaching Reading-
 Elementary School without Clinical Experience
 OR
 READ-311: Fundamentals of Reading Instruction
 OR
 READ-301: Teaching Reading in Junior and Senior High School
 ELED-310: Methods of Teaching Mathematics-
 Elementary School
 SPED-395: Technology Applications in Special Education

Cognate Elective (Fall II)**Choose either A or B:****A.**

One of the following:
 ELED-304: Methods of Teaching Social Studies-
 Elementary School
 ELED-305: Methods of Teaching Science-Elementary School
 SCED-303H: Methods of Teaching History
 in the Secondary School
 SCED-303R: Materials and Methods for Teaching
 High School Science
 OR

B. Bilingual Special Education Approval

BLBC-338: Bilingualism and Education
and one of the following:
 SPED-393S: Contemporary Problems:
 Methods of Teaching Handicapped LEP
 BLBC-341: Methods and Materials for Teaching
 LEP Students
 LING-340: Teaching English as a Second Language:
 Practices and Procedures

Level 3**Spring III**

SPED 381: Student Teaching (12 credit Hours)

Area of Study

(Cognate – replaces a required minor) -

21 or 24 Credit Hours

1. ELED-311: Public School Curriculum &
 EDFN 306: Education and Individual Differences
2. ELED-302: Methods of Teaching Language Arts-
 Elementary School &
 EDFN 307: Psychology of Instruction and Learning
3. ELED-310: Methods of Teaching Mathematics-
 Elementary School
4. ELED-306B: Methods of Teaching Reading-Elementary
 School without Clinical Experience
 OR
 READ-311: Fundamentals of Reading Instruction

OR

READ-301: Teaching Reading in Junior
 and Senior High School

5. Choose either A or B below:

A

Any ONE of the following:

ELED-304: Methods of Teaching Social Studies
 Elementary School
 ELED-305: Methods of Teaching Science-
 Elementary School
 SCED-303H: Methods of Teaching History
 in the Secondary School
 SCED-303R: Materials and Methods for
 Teaching High School Science

B: Bilingual Special Education Approval

BLBC-338: Bilingualism and Education
 and one of the following:
 SPED-393S: Contemporary Problems:
 Methods of Teaching Handicapped LEP
 BLBC-341: Methods and Materials for
 Teaching LEP Students
 LING-340: Teaching English as a
 Second Language: Practices and Procedures

Program Benchmarks

Students must complete all benchmarks for each level before
 allowed to progress to the next level.

Level 1 – 15 credit hours (Major and cognate courses)

Successful completion of all coursework at this level and

- A) Minimum overall GPA of 2.75
- B) No more than two grades of “C” or less in professional
 sequence coursework.
- C) Demonstration of appropriate Professional Standards
- D) Initial progress with the establishment of student portfolio
- E) Professional sequence course retaken if grade lower
 than “C”
- F) Admission to the College of Education
- G) Demonstration of appropriate Professional Dispositions

Level 2 – 43 credit hours (Bilingual Special Education Approval - 46 credit hours)

Successful completion of all coursework (major and cognate)
 and field experiences.

- A) Minimum overall GPA of 2.75
- B) No more than two grades of “C” or less in professional
 sequence coursework
- C) Professional sequence course retaken if grade lower
 than “C”
- D) Demonstration of appropriate Professional Standards
- E) Continued successful development of student portfolio
- F) Positive semester by semester review by faculty
 committee.
- G) Demonstration of appropriate Professional Dispositions
- H) Passing score on State Teacher Certification
 Examination (LBS1)

Level 3 – 12 Credit Hours

Successful completion of student teaching

- A) Minimum overall GPA of 2.75
- B) Grade of “B” or better for student teaching
- C) Positive review by both faculty supervisor and cooperating teachers.
- D) Successful completion of student portfolio
- E) Demonstration of appropriate Professional Dispositions

Exit Requirements

Successful completion of Levels one through three.

GENERAL EDUCATION

In addition to the successful completion of the Special Education major and one cognate, students must complete the general education requirements for the Illinois Initial Special Certificate. Transfer students (especially those with an Associate degree) should meet with an advisor before registering for general education courses.

Requirements which are a part of Northeastern’s 39 hour General Education Program and are on the Limited List:

Fine Arts (6 hours)

Humanities (9 hours)

Behavioral and Social Science (12 hours)

Natural Sciences (12 hours)

General Education Requirements which are **not** on the Limited List:

ENGL-101 Writing I 3 cr.
(must receive a grade of “C” or higher)

SPCH-COMM-101 Foundations of Communications **or**
SPCH-COMM-202 Voice and Diction 3 cr.
(must receive a grade of “C” or better)

Mathematics

College Algebra or higher 3 cr.
(must receive a grade of “C” or better)

Minimum credit hours for degree: 120 credit hours.

Special Requirements**Admission to the Major**

Prospective students apply for admission during Fall semesters and must be fully admitted to the University at that time. Minimum admission requirements include:

- 1) Minimum GPA of 2.75 based on all undergraduate work. New students must have successfully completed 12 credit hours at NEIU with a 2.75 or greater GPA if their previous work falls below 2.75.
- 2) Passing score on the Illinois Test of Basic Skills.
- 3) A spontaneous writing sample and/or interview required at the discretion of the Department.
- 4) A minimum of 20 hours working, volunteering or observing students with disabilities. Documentation must be on agency letterhead

Within one semester of admission, students must be admitted to the College of Education. See College of Education admission requirements in that section of the catalog. All Special Education majors will be required to earn a grade of “C” or better in required Special Education sequence courses. A grade of “D” in any required Special Education course will not be accepted toward the Special Education major. The student may repeat a “D” course once. If a student fails to get a “C” or better, the student will be dropped as a Special Education major.

All students must maintain a 2.75 GPA. To be entitled for certification a student must earn a grade of “B” or better in Practice Teaching and Student Teaching. A 2.75 cumulative G.P.A. is required for graduation.

GRADUATE PROGRAMS**Master of Arts in Special Education**

There are two graduate programs in Special Education; 1) the Master of Arts in Special Education and 2) the Master of Arts in Gifted Education.

There are two sequences leading to the Master of Arts in Special Education: Initial Certification (LBS I), and Early Childhood Special Education (ECH SPED). These graduate sequences provide students with advanced study designed to develop knowledge and skills both in special education and their selected sequence. See below for information on the requirements for Initial Certification.

The graduate of a Master’s program sequence will be able to 1) design and implement programs for exceptional individuals; 2) advise and consult with others on the needs of exceptional individuals; and 3) analyze and conduct research in the field of special education.

Prerequisite Course Requirements for Master of Arts in Special Education (ECH SPED) and Gifted Education:

Students must have one of the following: a current teaching certificate or a course in the History and/or Philosophy of Education.

Requirements for Admission to Both Master of Arts Degree Programs:

Students must fulfill the requirements for admission to the Graduate College.

All applicants are required to have two letters of recommendation submitted in support of their applications. These letters should be addressed directly to the Dean of the Graduate College. The recommendations should be made by persons who have had a supervisory relationship with the applicant in a teaching situation. For applicants with little or no prior teaching experience, letters will be accepted from student teaching supervisors or from professors of education who have observed the applicant’s potential as a teacher in the area of Special Education.

Degree Requirements:

1. Thirty-six or forty-five approved graduate credit hours.
2. Master's Degree project.
3. Practicum experiences in an approved special education setting.
4. Appropriate passage of state content area test before final Internship/Practicum.

Advisement

All students will be assigned an advisor. Students will plan their programs in consultation with their advisors. Prerequisite and required courses may be waived when competence can be demonstrated.

Course Requirements for Master of Arts in Gifted Education

SPED-450 Psychology of Individuals who are Gifted and Talented	3 cr.
SPED-451 Creativity	3 cr.
SPED-452 Education of Individuals who are Gifted and Talented	3 cr.
SPED-453 Seminar in Curriculum and Materials for the Gifted	3 cr.
SPED-455 Bibliography and Methodology in Research in Gifted Education	3 cr.
SPED-456 Parenting and Advocacy for Individuals who are Gifted and Talented	3 cr.
SPED-457 Research Seminar for the Gifted	3 cr.
SPED-459 Field Demonstration in Gifted Education	3 cr.
and four electives	12 cr.
Subtotal	36 cr.

Course Requirements for Master of Arts Sequences in Special Education:**Early Childhood Special Education**

SPED-484 Psychology of Language and Cognitive Development or	
C&I-ECED-313 Language Development and Acquisition or	
C&I-ECED-408 Language Acquisition and Intervention Strategies for Teachers of Young Children	3 cr.
C&I-ECED-403 Early Childhood Assessment	3 cr.
C&I-ECED-410 Curriculum Development in Early Childhood Education	3 cr.
C&I-ECED-411 Practicum in Early Childhood Education	3 cr.
SPED-481 Principles of Diagnosis and Teaching the Child with Special Needs Aged Three to Six Years ...	3 cr.
SPED-482 Assessment and Intervention with Infants and Toddlers who are At-Risk or Handicapped	3 cr.
SPED-483 Working with Parents of Young Children with Special Needs	3 cr.
SPED-488 Practicum in Early Childhood Special Education	3 cr.

SPED-490 Research Seminar in Special Education or	
C&I-ECED-412 Research Seminar in Early Childhood Education	3 cr.
Three electives (must be selected in consultation with advisor)	9 cr.
Subtotal	36 cr.

Students interested in adding the Early Childhood (Type 04) Certificate to their Early Childhood Special Education M.A. should refer to the Teacher Education - Early Childhood section.

Comprehensive Examination: All ECH SPED students must successfully complete a comprehensive examination.

Course Requirements for Master of Arts in Special Education, First Certificate**Student Requirements**

Graduate students seeking their initial teaching certificate must complete the following 45 hour entitlement sequence as part of the requirement for the Learning Behavior Specialist I (LBS I). In this program students will be required to complete five field – based clinical experiences arranged by the department in addition to a full – time sixteen week student teaching experience in an approved school setting.

Admission Requirements

Prospective students apply for admission to the program through the Graduate College.

- 1) Graduate students are admitted for Fall Semester.
- 2) Undergraduate degree.
- 3) Minimum undergraduate GPA of 2.75 (4-point scale). Previous graduate credit is also taken into appropriate consideration.
- 4) Passing Score on The Illinois Test of Basic Skills.
- 5) Spontaneous writing sample and/or interview at the discretion of the Department.

Initial Certification Graduate Level**Program Sequence****Block I: Foundations, Characteristics & Fundamentals of Research in Special Education – 12 hours**

SPED-500 Research I: Critical Writing & Research in Special Education – 3 hours.
Prerequisites: Acceptance into the graduate program for initial certification.

SPED-501 The Development & Characteristics of Children & Youths with Disabilities – 3 hours.
Prerequisites: SPED-500

SPED-502 The Development of Cognition, Learning, and Language – 3 hours
Prerequisites: SPED-500

SPED-503 The Historical, Philosophical, & Legal Foundations of Special Education – 3 hours
Prerequisites: SPED-500

Block II: Fundamentals of Assessment, Collaboration, Teaching and Technology in Special Education – 10 hours

SPED-504 Assessment I: Principles of Educational Assessment in Special Education – 3 hours.

Prerequisites: Block I sequence

SPED-505 Consultation & Collaboration: Special & Regular Education – 3 hours

Prerequisites: Block I sequence

SPED-506 Technology in Special Education – 3 hours

Prerequisites: Block I sequence

SPED-507 Internship I: Fundamentals of Teaching – 1 hour

Prerequisites: SPED-504, 505, 506

Block III: Curriculum, Teaching, Behavior Management & Programming in Special Education - 14 hours

SPED-508 Methods I: General Curriculum & Methods in Special Education – 3 hours

Prerequisites: Block II sequence

SPED-509 Methods II: Specialized Curriculum & Methods in Special Education – 3 hours

Prerequisites: SPED-508

SPED-510 Methods III: Strategies of Behavior Management – 3 hours

Prerequisites: Block II sequence

SPED-511 Methods IV: Alternative Programming & Curriculum in Special Education – 3 hours

Prerequisites: SPED-508 & 509

SPED-512 Internship II: Intermediate Teaching – 2 hours

Prerequisites: SPED-508, 509, 510, 511

Block IV: Internship & Applied Research in Special Education – 9 hours

SPED-513 Assessment II: Applied Diagnostic Testing – 3 hours

Prerequisites: Block III sequence

SPED-514 Internship III: Applied Teaching in Special Education – 3 hours

Prerequisites: Block III sequence & SPED-513

SPED-515 Research II: Applied Research Project in Special Education – 3 hours

Prerequisites: Block III sequence

Total Credit Hours: 45**Program Benchmarks**

Students must complete all benchmarks for each level before being allowed to progress to the next level. Students cannot obtain more than two grades of "C" in graduate course work as per The Graduate College Policy.

Level I – 12 hours

Successful Completion of Block I: Foundations, Characteristics & Fundamentals of Research and Assessment in Special Education (SPED-500, 501, 502, 503)

- A) Minimum GPA of 3.00.
- B) Completion of any deficiencies for those admitted conditionally.
- C) Candidacy.
- D) Beginning student portfolio.
- E) Demonstration of appropriate Professional Standards.

Level II – 10 hours

Successful Completion of Block II: Fundamentals of Collaboration, Teaching and Teaching in Special Education (SPED-504, 505, 506, 507)

- A) Minimum GPA of 3.00.
- B) Current student portfolio.
- C) Demonstration of appropriate Professional Dispositions.

Level III – 14 hours

Successful Completion of Block III: Curriculum, Teaching, Behavior Management & Programming in Special Education (SPED-508, 509, 510, 511, 512)

- A) Minimum GPA of 3.00.
- B) Current student portfolio.
- C) Demonstration of appropriate Professional Dispositions.
- D) Passage of Content Area Test LBS I.

Level IV – 9 hours

Successful Completion of Block IV: Internship and Applied Research in Special Education (SPED-513, 514, 515)

- A) Minimum GPA of 3.00.
- B) Completed portfolio.
- C) Demonstration of appropriate Professional Dispositions

EXIT REQUIREMENTS

Successful Completion of Blocks I – IV, 45 hours.

COURSE OFFERINGS

SPED-301 Supervised Field Experience II, 3 cr. Clinical experience for graduate students: observation and participation in classes for individuals with disabilities; preschool—high school according to student's selected area of concentration. Designed to meet State of Illinois requirements for 100 hours of clinical experience. *Prereq.:* SPED-303, SPED-304 and consent of instructor.

SPED-303 Educational and Psychological Evaluation in Special Education, 3 cr. Basic concepts in assessing and evaluating exceptional students, as well as educational programs. Methods for selecting, administering, and interpreting standardized tests, including competencies in validity, reliability, norming, and standard scores. Individual and group tests of aptitude, achievement, personality, diagnostic testing, and criterion referenced measures; checklists, rating scales, anecdotal records, minimum competency testing, and individual educational programs to monitor student's progress. *Prereq.:* Admission to the undergraduate special education program. Restricted to undergraduate students.

SPED-304 Psychology of Exceptional Individuals, 3 cr.

Psychology and identification of exceptional individuals. Methods of teaching exceptional individuals. Includes children and adolescents who are learning disabled, mentally retarded, emotionally disturbed, orthopedically handicapped, and other health impaired, sensorily impaired, speech and language handicapped, multi-handicapped, and gifted. *Prereq.:* Admission to the undergraduate special education program. Restricted to undergraduate students.

SPED-306 Play and Creative Expression for Individuals with Special Needs, 3 cr.

Activities and experiences designed to provide basic understanding of the role of play and creative expression in a curriculum for those with special needs. Methods and materials which enable play and creative expression to motivate, implement, and integrate the academic program. *Prereq.:* SPED-304. Undergraduate credit only.

SPED-307 Vocational Preparation for Individuals with Disabilities, 3 cr.

Methods, materials and procedures, and prevocational preparation needed those with special needs as a basis for acquiring the skills and experiences necessary for vocational competence. *Prereq.:* SPED-304.

SPED-308 Independent Study in Exceptionality I, 3 cr.

Special projects about exceptional individuals. *Prereq.:* SPED-304 and consent of instructor.

SPED-309 Independent Study in Exceptionality II, 3 cr.

Advanced research and study about exceptional individuals. *Prereq.:* SPED-308 and consent of instructor.

SPED-310 Characteristics of Individuals with Learning Disabilities, 3 cr.

Characteristics and disorders of children and adolescents with learning disabilities. Historical development of the field. Theoretical perspectives. Current practices and issues regarding identification and education.

Prereq.: SPED-303 and SPED-304. Undergraduate credit only.

SPED-311 Teaching Individuals with Learning Disabilities, 3 cr.

Special methods, materials, and approaches for the teaching of students with learning disabilities in the areas of reading, language, mathematics, writing, and non-verbal areas; various organizational and administrative solutions for meeting the needs of these students. *Prereq.:* SPED-310.

Undergraduate credit only.

SPED-312 Assessment of Exceptional Individuals, 3 cr.

Formal and informal assessment procedures. Demonstration administration and interpretation of commonly used tests. Use of assessment data in planning the individualized educational program. 95 clinical experience hours in area of concentration. *Prereq.:* SPED-303, SPED-304, and permission of instructor.

Undergraduate credit only.

SPED-319 Practice Teaching: Learning Disabilities, 6 cr.

Practice teaching combined with seminar discussions. Bridging the theoretical aspects of learning disabilities with an understanding of their practical application within the classroom.

Prereq.: Permission of practice teaching coordinator. Undergraduate credit only.

SPED-320 Characteristics of Individuals with Behavior Disorders, 3 cr.

Current definitions; description of social and emotional characteristics; conceptual models to explain the origins of behaviors interaction of family - social - cultural - physical and psychological factors affecting adjustment;

preventive and treatment programs meeting the student emotional needs in regular and special classes. *Prereq.:* SPED-304.

SPED-321 Teaching Individuals with Behavior Disorders, 3 cr.

An introduction to intervention strategies and their application in the management and influence of behavior in special education/regular classroom settings - includes major program models relevant to behavior disorders.

Emphasis is given to academic and social-emotional behaviors. 95 clinical experience hours in area of concentration. *Prereq.:*

SPED-303 and 304 and permission of instructor. Undergraduate credit only.

SPED-322 Management Strategies and Curriculum for Teaching Individuals with Behavior Disorders, 3 cr.

Designed to train future teachers in procedures for working with behavior disordered children and youth and in making program/curriculum decisions for these individuals. Topics covered include curriculum concerns, methods, materials, classroom organization, working with parents, working as part of a team, the range of placements for the behavior disordered and special consideration for each setting. *Prereq.:*

SPED-320 and SPED-321.

SPED-323 Consultation and Collaboration in Special Education, 3cr.

Examination of consulting and collaborative models for working with parents, paraprofessionals, administrators, other agencies and teachers. Study of conflict and time management strategies. Exploration of co-teaching models. *Prereq.:* Completion of Level 1 of Special Education Major, SPED-372 & SPED-375.

SPED-329 Practice Teaching: Behavior Disorders, 6 cr.

Supervised classroom teaching experience combined with seminar discussions. The school as a social system; classroom management; the teacher's personal qualities; culture and personality dynamics; educational technology; pupil and parent counseling. *Prereq.:* Permission of practice teaching instructor. Undergraduate credit only.

SPED-330 Characteristics of Individuals with Mental Retardation, 3 cr.

Exploration of characteristics associated with mild to profound mental retardation from early childhood to adult years. Examination of etiology issues related to diagnosis/identification, and aspects of service delivery including educational, vocational, and community services.

Prereq.: SPED-304.

SPED-331 Teaching Individuals with Mild Mental Retardation, 3 cr.

Curriculum planning including: construction and implementation of individual educational plans; adapting and selecting curriculum; materials and methods of instruction; classroom management; vocational planning and evaluation procedures. *Prereq.:* SPED-330. Undergraduate credit only.

SPED-332 Reading for Students with Mild Disabilities, 3 cr.

Laboratory course concerning various methods of teaching reading to children with a demonstrated developmental lag; utilization of methods and materials which will aid in communicative ability; the skills needed for individualization, adapting and writing material for specific reading problems. *Prereq.:* SPED-304.

SPED-333 Augmented Communication for Exceptional Individuals, 3 cr. Alternative communication methods for helping handicapped children and youth with impaired speech and language abilities to learn to communicate; techniques such as total communication, language board, and electrical devices will be demonstrated and practiced. *Prereq.:* SPED-304.

SPED-339 Practice Teaching: Mild Mental Retardation, 6 cr. Supervised teaching combined with seminar discussions including examination of the problems of diagnosis, theoretical approaches, suggested teaching techniques; curriculum, organization of instruction and pupil and parent counseling. *Prereq.:* Permission of practice teaching coordinator. Undergraduate credit only.

SPED-341 Teaching Individuals with Moderate Mental Retardation, 3 cr. Providing instruction and service to individuals with moderate mental retardation in school and society; data based instruction, sequencing instruction, programming, structuring the environment, strategies for training, adapting curricula and materials, and parents as partners. Undergraduate credit only. *Prereq.:* SPED-330.

SPED-360 Identification and Education of Preschool Children with Disabilities, 3 cr. This course focuses on techniques for identifying and teaching handicapped preschool children with disabilities. Investigates theoretical frameworks and strategies for teaching preschoolers with disabilities. Explores the teacher's role in coordinating services with other professionals and in communicating with parents. *Prereq.:* SPED-304.

SPED-371 Foundations of Special Education, 3 cr. Presentation of the philosophical and historical foundations of the field of special education. Discussion of existing law, legal applications, current trends, practices, professional behavior and ethical considerations are undertaken. Overview of methods of inquiry utilized by the profession is presented.

Prereq.: Special Education Major

SPED-372 The Development and Characteristics of Children and Youth With Higher Incidence Disabilities, 3 cr. The development and characteristics of children and youth with higher incidence disabilities is examined. Exceptionalities discussed include: Mental Retardation, Learning Disabilities, Emotional and Behavior problems, ADD, and Communication disorders. An overview of the assessment and diagnostic processes for the identification and educational treatment of these disabilities is offered. *Prereq.:* Completion of Level 1 of Special Education Major

SPED-373 Teaching Learners with Special Needs I, 3 cr. Methods for teaching academic and social skills to students with disabilities are presented. Specific considerations for working with students at the secondary level are reviewed. Considerations related to transitional and vocational programming are highlighted. Instructional planning and design with specific attention to IEP development is treated. *Prereq.:* Completion of Level 1 of Special Education Major.

SPED-374 Supervised Field Experience I, 3 cr. Students will be placed in a school setting, with supervision, to observe and help teach pupils with disabilities. Emphasis will be placed on higher incidence disabilities. Both primary and

secondary school placements will be available. *Prereq.:* Completion of Level 1 of Special Education Major

SPED-375 The Development and Characteristics of Children and Youth With Lower Incidence Disabilities, 3cr. The development and characteristics of children and youth with lower incidence disabilities is examined. Exceptionalities discussed include: Physical Disabilities, Traumatic Brain Injury, Severe and Multiple Disabilities, Autism, Health Impairments, and Sensory impairments. An overview of the assessment and diagnostic processes for the identification and educational treatment of these disabilities is offered. *Prereq.:* Completion of Level 1 of Special Education Major and SPED-373.

SPED-376 Teaching Learners with Special Needs II, 3 cr. Methods related to working with special education pupils in regular education classrooms are presented. Techniques related to inventorying the regular education classroom, social skills development, and instructional planning are shared. Learning Standards, goals and objectives are discussed. *Prereq.:* Completion of Level 1 of Special Education Major and SPED-373.

SPED-377 Supervised Field Experience II, 3 cr. Students will be placed in a school setting, with supervision, to observe and help teach pupils with disabilities. Emphasis will be placed on lower incidence disabilities. Both primary and secondary school placements will be available. *Prereq.:* Completion of Level 1 of Special Education Major and SPED-373 & SPED-374

SPED-378 Alternative Curriculum for Learners with Special Needs, 3 cr. This course surveys methods and procedures for educating students with lower incidence disabilities. Topics include Functional Curriculum, Transitional planning for adult life, Residential Settings, vocational options and instructional planning and design. *Prereq.:* Completion of Level 1 of Special Education Major and SPED-373

SPED-379 Managing Behaviors in the Classroom, 3 cr. The principles of behavior management will be explored. Topics will include managing student progress, classroom management, student interventions, improving social skills, aggressive behavior, and working with autistic behaviors. *Prereq.:* Completion of Level 1 of Special Education Major & SPED-372

SPED-380 Assessment of Exceptional Individuals & Diverse Populations in Special Education, 4 cr. An overview of terminology, legislation, legal and ethical considerations regarding assessment in special education is first presented. Test construction and basic statistical concepts are reviewed. The relationship between screening, referral, diagnosis, placement and intervention are discussed. The effects of cultural-linguistic diversity on assessment performance are reviewed. Individual measures of adaptive behavior, language proficiency, cognitive ability and achievement are presented. Curriculum – Based assessment and behavioral observations strategies are studied. *Prereq.:* Completion of Level 1 of Special Education Major, SPED-372 & SPED-375.

SPED-381 Student Teaching in Special Education, 3 cr. Supervised classroom teaching experience combined with seminar discussions. Study of the school as a social unit;

classroom management; the teacher's personal qualities; culture and personality dynamics; educational technology; parent relationships; diagnosis; suggested teaching techniques and curriculum organization. *Prereq.:* Completion of Level 2 of Special Education Major

SPED-390 Educating Persons with Autism, 3 cr. Designed for those interested in an overview of the etiology, characteristics, history, and treatment of autism. This class will provide a basic understanding of autism for the classroom teacher and other service providers. *Prereq.:* SPED-304.

SPED-391 Contemporary Problems and Issues in Special Education, 1 cr. An examination of specific concerns and issues in the field of special education.

SPED-392 Contemporary Problems and Issues in Special Education, 2 cr. (See SPED-391 for description.)

SPED-393 Contemporary Problems and Issues in Special Education, 3 cr. (See SPED-391 for description.)

SPED-395 Technology and Special Education, 3 cr. A study of administrative, assistive, and instructional technology applications in the field of special education. Review of research in the field, and the identification of State and National resources for teachers. Applications studied include: Office Suites, Adaptive technologies, Hypermedia authoring systems, and the Internet as a teaching resource. *Prereq.:* Completion of Level 1 of Special Education Major, SPED-372, SPED-375 & SPED-378

SPED-400 Vocational/Career Planning for Adolescents with Disabilities, 3 cr. Issues in vocation/career planning for special education secondary students utilizing assessment information, interest, and aptitude findings for vocational/career planning, including methodology, material, resources, and alternative programs. *Prereq.:* graduate standing and SPED-404 or consent of instructor.

SPED-402 Counseling Strategies in Special Education, 3 cr. Specific techniques and strategies that may be utilized by the teacher in counseling pupils, parents, and in consulting with other professionals. Special emphasis will be given to developing techniques for establishing counseling strategies, effective communication, and influencing changes in attitudes and behavior. *Prereq.:* graduate standing.

SPED-403 Assessment of Adolescents with Disabilities, 3 cr. The course will focus on techniques for the administration and interpretation of formal and informal assessment devices for the adolescents with disabilities. *Prereq.:* SPED-409 and SPED-404 or equivalent.

SPED-404 Survey of the Field of Special Education, 3cr. Review of the legal, psychological, sociological, and educational aspects of the lives of children and youth with disabilities including the learning disabled. For students needing 100 hours of clinical experience arrangements will be made through SPED-404. *Prereq.:* graduate standing.

SPED-405 Educational Planning for Adolescents with Disabilities, 3 cr. This course examines concepts, methods, materials and instructional techniques for teachers and other personnel who will train adolescents with learning disabilities, behavior problems or cognitive impairments. *Prereq.:* SPED-404.

SPED-406 Adolescents with Disabilities: Educational Principles and Theories, 3 cr. Introduction to the field of educating adolescents with disabilities. Review of adolescent psychology, study of characteristics of adolescents with disabilities, and current issues in the field. *Prereq.:* SPED-404 and SPED-409 or equivalent.

SPED-407 Seminar: Educating the Adolescent with Disabilities, 3 cr. Develop skills to critically evaluate professional literature, study research in the field. *Prereq.:* SPED-400, SPED-403, SPED-405 and SPED-406.

SPED-408 Practicum in Educating Adolescents with Disabilities, 3 cr. The student will be exposed to a variety of hands-on experiences with adolescents disabilities. The experience will include exposure to adolescents with a variety of disabilities and varying degrees of severity. Experiences will include placements in one or more of the following: vocational centers, special education classrooms, community agencies and alternative schools. *Prereq.:* admission to candidacy, SPED-404, SPED-403 and SPED-405.

SPED-409 Educational and Psychological Assessment and Evaluation in Special Education, 3cr. This course provides teachers, administrators and other professional educational support personnel with an in-depth understanding of the principles of test construction, basic statistical concepts, commonly used standardized tests, and other procedures for evaluating students with special needs. Interpretations of test data are an important part of this course.

SPED-410 Identification and Diagnosis of Learning Disabilities, 3 cr. Characteristics of individuals with learning disabilities. Theoretical frames of reference for diagnosis. Behavioral characteristics, test interpretation, implications for remediation, current issues, and trends in assessment. *Prereq.:* graduate standing.

SPED-411 Remediation and Planning in Learning Disabilities, 3 cr. Principles of teaching individuals with learning disabilities. Planning the individualized school program. Role of the learning disabilities teacher in working with parents, classroom teachers, and other professionals. Current issues and trends in remediation and school programming. *Prereq.:* SPED-410.

SPED-412 Principles of Diagnostic Testing, 3 cr. Techniques of testing and interpretation of tests in educational diagnosis; familiarity with commonly used assessment instruments; techniques and practice in administering individual diagnostic tests; methods of informal assessment; interpretation of clinical reports. *Prereq.:* masters degree candidacy, SPED-409, SPED-410 and SPED-411.

SPED-413 Seminar in Learning Disabilities, 3 cr. An in-depth analysis of recent research and current problems in the field of learning disabilities, theoretical frameworks, diagnostic tools, and teaching strategies to be analyzed. *Prereq.:* master's degree candidacy, SPED-410 and SPED-411.

SPED-418 Practicum I: Learning Disabilities, 3 cr. Supervised teaching experience with children and youth who have learning disabilities. Stresses techniques in assessment and initial plans for remediation. *Prereq.:* master's degree candidacy, SPED-410, SPED-411, SPED-412 and consent of Dr. James.

SPED-419 Practicum II: Learning Disabilities, 3 cr. Advanced teaching experience with learning disabled children and youth. Emphasizes various techniques in remediation.

Prereq.: SPED-418 and consent of Dr. James.

SPED-420 Identification and Assessment of Behavior Disorders, 3 cr. Behavioral characteristics of students with behavior disorders; theoretical perspectives of behavior disorders and implications for the design of treatment programs; review of the latest research findings in the field.

Prereq.: SPED-404 or equivalent.

SPED-421 Advanced Strategies of Behavior Management, 3 cr. Application of behavior modification, developmental, cognitive, and other contemporary strategies for the management of behavior in special education settings. Emphasis will be placed on methods for working with individuals with behavior disorders (social/emotional problems). *Prereq.:* SPED-404 or equivalent and SPED-420.

SPED-422 Seminar I in Behavior Disorders, 3 cr. Current research on issues, problems, and characteristics of individuals with mild and moderate behavior disorders. Topics will include noncompliance, attention deficit disorder, and others. Implications regarding placement and treatment. *Prereq.:* graduate standing; SPED-420.

SPED-423 Seminar II in Behavior Disorders, 3 cr. Current research on the issues, problems, and characteristics of individuals with severe behavior disorders. Topics will include child and adolescent psychoses, autism, and others. Placement and treatment will be discussed. *Prereq.:* graduate standing; SPED-420.

SPED-424 Social Skills Training in Special Education, 3 cr. Small group interaction will be utilized to explore and experience methods of teaching social and interpersonal skills. Emphasis will include personal acquisition of helping skills and training techniques and their application with students, parents, and other professionals. *Prereq.:* SPED-402.

SPED-425 Seminar I in Group Process, 3 cr. Experiential approach to examining small group processes and characteristics. Theories and models of effective group functioning as related to classroom, parent, and team meetings. Special emphasis will be placed on learning and practicing the roles and skills of group leadership. *Prereq.:* SPED-402 and consent of instructor.

SPED-426 Seminar II in Group Process, 3 cr. Group process is used to examine models of effective organizational functioning as a basis for organizational design, assessment, and growth planning. Principles and skills of supervision, collaboration, and consultation will be practiced in small groups as a basis for further application in professional settings. *Prereq.:* SPED-425 and consent of instructor.

SPED-427 Curriculum and Planning for Individuals with Behavior Disorders, 3 cr. Special instructional problems and needs of individuals with behavior disorders. Strategies for individualizing instruction, curriculum development, interfacing academic and social-emotional objectives, and building transdisciplinary collaboration. *Prereq.:* SPED-420.

SPED-428 Practicum I: Behavior Disorders, 3 cr. Introductory professional experience in educating individuals with behavior disorders; emphasis on experience with intervention techniques, planning diagnosis, staffing, and parent/ pupil counseling. *Prereq.:* master's degree candidacy and completion of required courses.

SPED-429 Practicum II: Behavior Disorders, 3 cr. Advanced supervised professional experiences in educating children with behavior disorders in an appropriate setting; seminar discussions. *Prereq.:* SPED-428 and consent of Practicum Coordinator.

SPED-430 Identification and Diagnosis of Mental Retardation, 3 cr. Learning and behavioral characteristics of individuals with mental retardation and developmental disabilities; theoretical perspectives of mental retardation and implications for design of intervention programs; assessment issues; review of latest findings in the field.

Prereq.: graduate standing and SPED-404 or equivalent.

SPED-431 Teaching Individuals with Mild Mental Retardation, 3 cr. Focus on best practices for teaching individuals with mild mental retardation in school, vocational, and other settings. Exploration of curriculum development, organization of instruction, and teaching methodology in relation to current research findings. *Prereq.:* SPED-404 or equivalent and SPED-330 or SPED-430.

SPED-432 Curriculum and Planning for Individuals with Mental Retardation, 3 cr. Special problems in the instruction of individuals with mild mental retardation; curriculum building, academic workshops, counseling, guidance, community relations, evaluation, and research. *Prereq.:* graduate standing, SPED-431 or SPED-330 or consent of instructor.

SPED-433 Seminar in Mental Retardation, 3 cr. Group and individual research designed to help prospective teachers of students with mental retardation integrate current research findings on learning characteristics, teaching strategies, and service delivery for use in applied settings. *Prereq.:* SPED-330, SPED-431 or SPED-441.

SPED-438 Practicum I: Mild Mental Retardation, 3 cr. Professional experience working with individuals with mild mental retardation in settings other than typical school environments, such as community living facilities, mental health centers, and vocational settings. *Prereq.:* masters degree candidacy

SPED-439 Practicum II: Mild Mental Retardation, 3 cr. Advanced supervised professional experience in teaching educable mentally handicapped individuals in appropriate settings; seminar discussions. *Prereq.:* master's degree candidacy, completion of all required courses, and consent of Practicum Coordinator.

SPED-441 Teaching Individuals with Moderate Mental Retardation, 3 cr. Focus on best practices for teaching individuals with moderate-to-severe mental retardation in school, vocational, and other settings. Exploration of curriculum development, organization of instruction, and teaching methodology in relation to current research findings. *Prereq.:* graduate standing, SPED-404 or equivalent and SPED-330 or SPED-430.

SPED-448 Practicum I: Moderate Mental Retardation, 3 cr. Professional experience working with individuals with moderate-to-severe mental retardation in settings other than

typical school environments, such as community living facilities, mental health centers, and vocational settings. *Prereq.:* master's degree candidacy and completion of required courses.

SPED-449 Practicum II: Moderate Mental Retardation, 3 cr. Advanced supervised professional experience in educating individuals with moderate-to-severe mental retardation in appropriate settings: seminar discussions. *Prereq.:* master's degree candidacy, completion of all required courses, and consent of Practicum Coordinator.

SPED-450 Psychology of Individuals who are Gifted and Talented, 3 cr. The gifted and creative in society and how they are identified, with consideration of their psychological, social, and educational characteristics; implications for instruction, administration, counseling, and guidance. *Prereq.:* graduate standing.

SPED-451 Creativity, 3 cr. Discussion and inquiry into the nature and nurture of creative ability, review of research in creativity, practical application of creative processes, ways to develop creative thinking.

SPED-452 Education of Individuals who are Gifted and Talented, 3 cr. Issues in the education of the gifted; administrative and instructional provisions; evaluation research; instructional approaches and program planning for the gifted; discovery and inquiry; motivation and underachievement; fostering creativity. *Prereq.:* SPED-450.

SPED-453 Seminar in Curriculum and Materials for the Gifted, 3 cr. An intensive review and development of instructional materials in specific curriculum areas with special reference to their appropriateness for use with gifted and creative individuals. *Prereq.:* SPED-450 and SPED-452.

SPED-454 Teaching Gifted Students in the Regular Classroom, 3 cr. Overview of teaching strategies, materials and classroom organization to enhance and foster the potential of students who are gifted and talented. *Prereq.:* graduate standing.

SPED-455 Bibliography and Methodology in Research in Gifted Education, 3 cr. Introduction to the techniques employed in educational research. Projects include library research, writing abstracts, analytical critiques of research, evaluation of statistical reporting, and development of an extensive annotated bibliography in gifted education. *Prereq.:* SPED-450 and SPED-452.

SPED-456 Parenting and Advocacy for Individuals who are Gifted and Talented, 3 cr. Survey of the skills needed to enhance the social and emotional development of the gifted individual. Methods for obtaining local, state and national support of programs for the Gifted.

SPED-457 Research Seminar for the Gifted, 3 cr. A study of the research literature on gifted children; emphasis on research methodology, interpretation of data, and application to educational problems and provisions concerning the gifted; a research project is required. *Prereq.:* graduate standing, SPED-450, SPED-452, SPED-453 and SPED-455.

SPED-458 Meeting Gifted Students' Social-Emotional Needs, 3 cr. A seminar on the social-emotional characteristics of students who are gifted and talented. Topics covered will include techniques for meeting student's and teachers' needs *Prereq.:* SPED-450 or consent of instructor.

SPED-459 Field Demonstration in Gifted Education, 3 cr. Field work in programming for gifted/talented individuals. Independent project in identification, talent retrieval, teaching strategies, organizational plans, methods, or materials suitable for the education of talented individuals. Placement in school settings or on-campus gifted summer school program. *Prereq.:* SPED-450, SPED-452, SPED-453, and acceptance for candidacy.

SPED-460 Medical Aspects of Individuals with Physical and Health Impairments, 3 cr. Characteristics of individuals with physical and medical handicapping conditions that may affect school performance. Designed to assist the teacher in understanding these conditions to facilitate educational intervention. *Prereq.:* SPED-404 or equivalent.

SPED-461 Education of Individuals with Physical Disabilities, 3 cr. Education of individuals with physical disabilities in a variety of settings; hospital and home instruction; education of individuals with physical disabilities in regular classes and special schools; administrative considerations; consideration of multiple disabilities; occupational therapy; physical therapy; personal and educational counseling. *Prereq.:* SPED-404 and SPED-460.

SPED-465 Consultation and Collaboration: Special and Regular Education, 3 cr. A seminar on consultation and collaboration activities aimed at integrating students with disabilities into regular education programs. Topics covered include mainstreaming, consultation models, conferencing techniques, collaboration models, in-service education and curriculum modification. Special emphasis will be given to developing effective communication skills. *Prereq.:* SPED-404 or equivalent.

SPED-466 Assessing Students with Limited English Proficiency (LEP) and Disabilities, 3 cr. This course provides an overview of strategies and instruments that can be used to assess the academic and social behavior of pupils with limited English proficiency identified as or suspected of having special education needs. *Prereq.:* graduate standing, SPED-404 or equivalent, SPED-409 or equivalent, and SPED-410.

SPED-467 Teaching Students with Limited English Proficiency (LEP) and Disabilities, 3 cr. This course will provide a theoretical framework to critically analyze the problems faced by students with LEP and special needs. The focus of the course is on instructional practices and approaches which seem to be effective with handicapped language minority students. *Prereq.:* graduate standing, SPED-404 or equivalent, SPED-409 or equivalent, and SPED-410.

SPED-470 Administration and Supervision in Special Education, 3 cr. Introduction to special education administration including legal and financial aspects, staff and community relations, mainstreaming, facilities, and curricular design; students will have an opportunity to solve problems using case studies and simulated materials. *Prereq.:* graduate standing, ELAD-LEAD-421 and SPED-410.

SPED-481 Principles of Diagnosis and Teaching the Child with Special Needs Aged Three to Six Years, 3 cr.

Principles of diagnosis and teaching the young child with special needs. Aspects of assessment include screening, formal and informal tests, and use of diagnostic information to plan individualized educational program. Theory and practice of teaching techniques for the young child with special needs; discussion of the role of the special education teacher in working with other members of the multidisciplinary team and with parents. Current research and issues.

Prereq.: SPED-404 or equivalent.

SPED-482 Assessment and Intervention with Infants and Toddlers who are At-Risk or Who Have Special Needs, 3 cr.

Principles of assessment and intervention with infants and toddlers (ages birth to 3) with special needs and their parents. Theory and practice of intervention techniques. Transdisciplinary role of parent-infant educator. Current research and issues. *Prereq.:* SPED- 404 or equivalent.

SPED-483 Working with Parents of Young Children with Special Needs, 3 cr.

This course will develop skill in working with families of young (birth to six year old) children with special needs. Issues such as family systems approaches, communication skills, parent empowerment, legal rights and working with service agencies are covered. *Prereq.:* graduate standing and SPED- 404 or equivalent.

SPED-484 Psychology of Language and Cognitive Development, 3 cr.

This course introduces the student to the basic concepts of developmental psycholinguistics and the principles of intervention in language processes.

SPED-488 Practicum in Early Childhood Special Education-Teaching Young Children with Special Needs, 3 cr.

Advanced supervised professional clinical experience in educating young infants, toddlers, or preschoolers with special needs in an appropriate setting; seminar discussions.

Prereq.: master's degree candidacy and completion of all required courses.

SPED-490 Research Seminar in Special Education, 3 cr.

Review of research literature on special problems in exceptionality. Research project under the supervision of a faculty advisor. *Prereq.:* degree candidacy and consent of instructor.

SPED-491 Thesis Credit in Special Education, 3 cr.

Research project within the area of applicant's field of specialization. *Prereq.:* completion of all required courses in the master's degree sequence, acceptance for degree candidacy, and consent of advisor.

SPED-494 Research Seminar in Exceptionality, 3 cr.

Experimental method applied in a group research project in a specialized area of exceptionality. *Prereq.:* degree candidacy and consent of instructor.

SPED-500 Research I: Critical Writing & Research in Special Education, 3 cr.

Communicate orally and in writing about the current research in the field of special education and how it affects the lives of individuals with special needs.

Prereq.: Acceptance into the graduate program for initial certification.

SPED- 501 The Development & Characteristics of Children & Youths with Disabilities, 3 cr.

Review the psychological, sociological, and educational aspects of the lives of children and youths with disabilities. Prerequisites: Concurrent registration with/or completion of SPED-500.

SPED-502 The Development of Cognition, Learning, and Language, 3 cr.

This course examines language development and pathology, and the relations between language and thought. The major emphasis of the course will be developmental, but other frames of reference will be used to clarify particular components and language and thought.

Prereq.: Concurrent registration with/or completion of SPED-500.

SPED-503 The Historical, Philosophical, & Legal Foundations of Special Education, 3 cr.

This course examines the historical, philosophical, and legal aspects of education that have defined the field of special education.

Prereq.: Concurrent registration with/or completion of SPED-500.

SPED-504 Assessment I: Principles of Educational Assessment in Special Education – 3 cr.

This course provides teachers, administrators and other professional educational support personnel with an in – depth understanding of the principles of test construction, basic statistical concepts, commonly used standardized tests and other procedures for evaluating students with special needs. Interpretations of test data are an important part of this course. *Prereq.:* Completion of Block I sequence.

SPED-505 Consultation & Collaboration: Special & Regular Education, 3 cr.

A seminar on consultation and collaboration activities aimed at integrating students with disabilities into regular education programs. Topics covered include mainstreaming, consultation needs, conferencing techniques, collaboration models, and in-service education. Special emphasis will be given to developing effective communication skills. *Prereq.:* Completion of Block I sequence.

SPED-506 Technology in Special Education, 3 cr.

This course prepares special educators to understand, implement and utilize technology, fostering learning and social outcomes within the context of the Least Restrictive Environment. The course examines special technology used in the assessment and implementation of technology. The legal ramifications of selecting and operating assistive devices are also covered. The relationship of technology theory is also included. *Prereq.:*

Completion of Block I sequence.

SPED-507 Internship I: Fundamentals of Teaching, 1 cr.

The purpose of SPED 507 is to involve candidates in working on-site in special education programs where services are provided for children and youths with special needs. It introduces the initial candidates to the basic elements of teaching including behavioral objectives, lesson plan formats, and basic methodology. These will be applied in the field – based settings to allow students, through direct interaction and facilitation of learning, to learn more about the children and youths' characteristics and needs, about the role their teachers play, and about school programs in the context of the Least Restrictive Environment. *Prereq.:* SPED-504, 505, 506.

SPED-508 Methods I: General Curriculum & Methods in Special Education, 3 cr.

General principles of teaching, including the modification/adaptation for individuals (5 -21) with disabilities. Beginning to understand and plan the individualized school program. *Prereq.:* Completion of Block II sequence.

SPED-509 Methods II: Specialized Curriculum & Methods in Special Education, 3 cr. This class addresses specific methods for teaching content areas to students with disabilities (5 - 21) in the context of the Least Restrictive Environment. Content includes addressing the needs of the Culturally and Linguistically Diverse student with disabilities. Methods are also covered to address the social and emotional needs of these students. *Prereq.: SPED-508*

SPED-510 Methods III: Strategies of Behavior Management, 3 cr. Application of applied behavior analysis, developmental, cognitive, and other contemporary approaches for behavior management within the context of the Least Restrictive Environment. *Prereq.:* Completion of Block II sequence.

SPED-511 Alternative Programming & Curriculum in Special Education, 3 cr. This class addresses the programming and curriculum issues for students with disabilities (5 - 21) who, because of the nature of their disabilities, require alternative programs and/or curriculum within the context of the Least Restrictive Environment. *Prereq.:* SPED-508, 509.

SPED-512 Internship II: Intermediate Teaching, 2 cr. The purpose of SPED 512 continues to involve candidates in working on-site in special education programs where services are provided for children and youths with special needs. It continues the initial candidate's development by continuing to apply the basic elements of teaching including behavioral objectives, lesson plan formats, and basic methodology while requiring the candidate to apply more specific and advanced methodologies. These will be applied in the field – based settings to allow students, through direct interaction and facilitation of learning, to learn more about the children and youths' characteristics and needs, about the role their teachers play, and about school programs in the context of the Least Restrictive Environment. *Prereq.:* SPED-508, 509, 510, 511.

SPED-513 Assessment II: Applied Diagnostic Testing, 3 cr. Techniques of testing and interpretation of tests in educational diagnosis, familiarity with commonly used assessment instruments, techniques and practice in administering individual diagnostic tests, methods of informal assessment, and interpretation of clinical reports. *Prereq.:* Completion of Block III sequence.

SPED-514 Internship III: Applied Teaching in Special Education, 3 cr. The candidate will participate in supervised professional experiences in a school setting as a candidate teacher of pupils with disabilities (5 – 21) in the Least Restrictive Environment. Applied teaching will be combined with seminar discussions and required assignments. *Prereq.:* Completion of Block III sequence & SPED-513.

SPED-515 Research II: Applied Research Project in Special Education, 3cr. This course requires students to complete a review of research literature on special problems in exceptionality and a research project under the supervision of the professor. While the projects are individual in nature, each student is expected to follow a prescribed procedure for approval and acceptance by the instructor. *Prereq.:* Completion of Block III sequence.

TEACHER EDUCATION

Maria Korkatsch-Groszko, Ph.D., Professor, Chair
 Rachel A. Adeodu, Ph.D., Assistant Professor
 Anita Kak Ambardar, Ph.D., Professor
 Lorie A. Annarella, Ed.D., Associate Professor
 Harvey B. Barrett, Ed.D., Associate Professor
 Janet Bercik, Ed.D., Professor
 Wayne Berridge, Ed.D., Professor
 Louise Bohr, Ph.D., Associate Professor
 Elaine Pierce Chakonas, Ed.D., Assistant Professor
 Murrell Duster, M.Ed., Assistant Professor
 Frederick O. Flener, Ph.D., Professor
 Yi Hao, Ph.D., Assistant Professor
 Joyce A. Hieshima, Ph.D., Professor
 Joyce H. Jennings, Ed.D., Professor
 Jo Ann Karr, Ed.D., Professor
 Nancy Kelly, Ph.D., Assistant Professor
 Elizabeth Landerholm, Ed.D., Professor
 Katherine S. McKnight, Ph.D., Assistant Professor
 Selina Mushi, Ph.D., Assistant Professor
 April Nauman, Ph.D., Assistant Professor
 Edward Odisho, Ph.D., Professor
 Beverly Otto, Ph.D., Professor
 Roger Passman, Ph.D., Assistant Professor
 Frank Perino, Ph.D., Assistant Professor
 Joaquin Villegas, Ph.D., Assistant Professor
 Steven Wolk, Ed.D., Assistant Professor

The Department of Teacher Education offers a variety of undergraduate and graduate programs for pre-service and in-service teachers. While some department programs are organized with an orientation to preparing teachers for specific age/grade levels, it is the departmental goal to develop programs with a broader and more integrated perspective which acknowledges the theoretical base common to teacher education programs for all age levels. To achieve this goal, the resources of all of the following programs in the Teacher Education Department are being utilized:
 Undergraduate Program in Bilingual/Bicultural Education
 Undergraduate Program in Early Childhood Education
 Undergraduate Program in Elementary Education
 Undergraduate Program in Secondary Education
 Graduate Programs:

MAT: Language Arts Elementary
 MAT: Language Arts Secondary
 M.S. in Instruction: Language Arts Elementary/Secondary
 MAT: Bilingual/Bicultural Education Elementary
 M.S. in Instruction: Bilingual/Bicultural Education Elementary
 M.A.: Reading

PROGRAM in BILINGUAL/BICULTURAL EDUCATION

A double major in Bilingual/Bicultural-Elementary Education leading to a Bachelor of Arts degree in Bilingual/Bicultural-Elementary Education is offered. Courses are available to reflect ethnic groups such as Hispanic, Arabic, Asian and Greek, to be serviced by the bilingual teacher candidate.

Program goals are: to develop skills, insights, and attitudes crucial to effective communication in teaching the bilingual-bicultural child; to understand the psychological and sociological settings pertinent to bilingual-bicultural children and their cultural differences; to become aware of the ongoing multilingual education programs; to become conversant in both first and second languages in teaching subject matter areas; to realize the importance of the ethnic-cultural ties to the learning process; and to develop the necessary pedagogical competencies for the teaching profession through the bilingual-bicultural major.

Students completing the Bilingual/Bicultural Major must meet the current State of Illinois Standards in professional education through completion of Elementary Education coursework with a Bilingual focus (ELED-BLBC), and receive Bilingual Approval on the Elementary Certificate. (See the Elementary Education section of this catalog for General Education requirements and professional sequence course descriptions.)

Through completion of the Bilingual/Bicultural Education Major students meet the current State of Illinois standards for approval in bilingual education, and the 18-hour area of concentration as required by the Illinois State Board of Education. (Consult with program advisor: Ms. Denise Roman, ext. 5394)

ELED-BLBC PROFESSIONAL SEQUENCE:

(Students receive Bilingual Approval on the Elementary Certificate.)

EDUC-EDFN 305 Philosophical & Historical Foundations of Public Education	3 cr.
EDUC-EDFN 306 Education & Individual Differences	3 cr.
(Prerequisite for ELED/BLBC 301)	
ELAD-EDFN 307 Psychology of Instruction and Learning	3 cr.
TED-BLBC 301* Curriculum in Elementary School	3 cr.
TED-BLBC 302* Methods of Teaching Language Arts	3 cr.
TED-ELED/BLBC 304 Methods of Teaching Social Studies	3 cr.
TED-ELED/BLBC 305 Methods of Teaching Science ...	3 cr.
TED-BLBC 306A* Methods of Teaching Reading	3 cr.
(100 hours of clinical experience included)	
TED-ELED/BLBC 310 Methods of Teaching Mathematics	3 cr.

Choose one of the following:

TED-ELED 319 Classroom Management or TED-ELED 320 Teaching Slow Learning & Gifted Child or TED-ECED 312 Teaching Strategies with Multicultural Groups or ELAD-EDFN 313 Problems, Issues & Practices in Education	3 cr.
TED-BLBC 329* Student Teaching in Elementary Education	9 cr.
TOTAL 39 cr.	

*These are bilingual sections of elementary education methods coursework. See the ELED section for course descriptions. BLBC/ELED students must meet program admission and retention criteria as stated in the ELED section.

BILINGUAL-BICULTURAL EDUCATION MAJOR

<u>Required courses</u> for Bilingual Approval (18 credit hours)	
TED-BLBC 338 Bilingualism and Education	3 cr.
TED-BLBC 339 Teaching Communication Skills in Cross-Language/Culture Situations	3 cr.
TED-BLBC 340 Methods of Teaching Language and Culture Diverse Students	3 cr.
TED-BLBC 341 Methods and Materials for Teaching Limited English-Proficiency Students	3 cr.
TED-BLBC 342 Assessment in the Bilingual Classroom	3 cr.
LING 340 Teaching English as A Second Language: Practices and Procedures	3 cr.

Note: See course descriptions for course prerequisites.

<u>Elective Courses</u> chosen in consultation with the Program Coordinator. Courses recommended are from disciplines specified by ISBE toward the completion of the 18-hour area of concentration. (18 credit hours)	18 cr.
TOTAL 36cr.	

GRADUATE PROGRAMS

Master of Arts in Teaching: Bilingual/Bicultural Education-Elementary

The Master of Arts in Teaching: Bilingual/Bicultural Education is designed to reflect a multicultural/multilingual focus and encourages candidates who already hold a non-education undergraduate degree to pursue an elementary teaching certificate and bilingual endorsement while attaining a master's degree.

This program has three components of coursework:

- Professional core of eighteen (18) credit hours in the area of multicultural education, media technology, assessment, literacy theory and pedagogy, general curriculum development, and research.
- Concentration of eighteen (18) credit hours in bilingual/bicultural education leading to bilingual approval.
- Certification coursework consisting of additional pedagogical study, special education and field experiences, including

100 clock hours of clinical experience and student teaching internship, totaling 15 credit hours.

Students must also have completed general education requirements as specified by the Illinois State Board of Education. In addition, students seeking teacher certification are required to pass the State of Illinois Basic Skills, Subject Matter Knowledge Tests, and assessment of Professional Teaching Tests.

ADMISSION REQUIREMENTS

- Undergraduate Bachelor's Degree from an accredited university or college
- A minimum undergraduate GPA of 2.75 (4.0 scale)
- 18 credit hours of undergraduate coursework in any one of the following areas of concentration: social/behavioral sciences, natural sciences, humanities, or other related disciplines
- Six credit hours in the history and philosophy of education and educational psychology (learning and development) (ELAD-EDFN-405 and 406, or equivalent)
- Oral interview, oral and literacy assessment of proficiency in native language and the target language by program faculty.
- Passing score on ICTS Basic Skills Examination.

A maximum of nine credit hours of graduate level coursework may be transferred into the program, based upon the evaluation of the coursework being equivalent in scope and content to required program coursework, in accordance with the policies established by the Graduate College. Program courses are offered in a three year cycle.

REQUIREMENTS FOR THE DEGREE:

See pertinent sections in the Catalog for course descriptions.

1. Professional Core 18 credit hours
 - ELAD-EDFN-416 Cultural Pluralism and Schools 3 cr.
 - TED-ELED-414 Principles of Curriculum Development 3 cr.
 - TED-ELED-430 Trends and Issues in Assessment 3 cr.
 - TED-INMD-410 Media Technology for Educators 3 cr.
 - TED-READ-402 Issues in Reading Instruction 3 cr.
 - TED-ELED-406 Research Skills for the Classroom Teacher 3 cr.
2. Bilingual/Bicultural Education 18 credit hours
 - TED-BLBC-438 Foundations of Bilingual Education 3 cr.
 - TED-BLBC-439 Ethnic Diversity in Our Schools: A Cross-Cultural/Linguistic Survey 3 cr.
 - TED-BLBC -440 Teaching in Culture and Language Diverse Classrooms 3 cr.
 - TED-BLBC 441 Materials, Methods and Techniques for Teaching Limited English Proficient Students 3 cr.

- TED-BLBC-442 Assessment Tools for Bilingual Students 3 cr.
 - LING-414 Theories of Teaching English as a Second Language 3 cr.
3. Certification Component 15 credit hours
 - TED-ELED-415 Interrelating Science and Math, with Clinical Experience (in BLBC Classroom) 3 cr. (min.50 clock hours; apply 6 mo. in advance to CEST office, CLS 4023)
 - TED-ELED-416 Strategies of Teaching Social Studies and Language Arts with Clinical Experience (in BLBC Classroom) 3 cr. (min.50 clock hours; apply 6 mo. in advance to CEST office, CLS 4023)
 - SPED-404 Survey of the Field of Special Education 3 cr.
 - TED-ELED-429 Internship in Elementary Education (in BLBC Classroom) 6 cr. (full semester; apply 1 yr. in advance to CEST office, CLS 4023)
- Total 51 cr.**

4. Process-oriented research paper, indicating mastery of formal research skills.
5. Content-oriented research paper, indicating depth in candidate's academic area of concentration.
6. Overall academic and professional assessment through a review of the candidate's portfolio and interview by program faculty.

MASTER OF SCIENCE IN INSTRUCTION: Bilingual/Bicultural Education-Elementary

The Master of Science in Instruction: Bilingual/Bicultural Education is designed to reflect a multicultural/multilinguistic focus and encourages candidates who already hold an elementary education or early childhood teaching certificate to pursue a master's degree leading to bilingual endorsement.

This program has two components of coursework:

- Professional core of eighteen (18) credit hours in the area of cultural pluralism, media technology, literacy theory and pedagogy, assessment, general curriculum development, and research.
- Concentration of eighteen (18) credit hours in bilingual/bicultural education leading to bilingual approval.

Program graduates will: understand psychological and sociological settings pertinent to bilingual children from culturally diverse backgrounds; enhance and refine their educational and philosophical knowledge based in bilingual/bicultural approach to education; develop/refine their skills, insights, and attitudes crucial to effective cross-cultural communication in diverse settings; and develop/refine research skills which will serve as effective and efficient tools for continued professional development and leadership skills in implementing bilingual/bicultural curricula.

ADMISSION REQUIREMENTS

- Undergraduate Bachelor's Degree from an accredited university or college
- A minimum undergraduate GPA of 2.75 (4.0 scale)
- 18 credit hours of undergraduate coursework in any one of the following areas of concentration: social/behavioral sciences, natural sciences, humanities, or other related disciplines
- Current, valid elementary education or early childhood teaching certificate
- Oral interview, oral and literacy assessment of proficiency in native language and the target language by program faculty.

A maximum of nine credit hours of graduate level coursework may be transferred into the program, based upon the evaluation of the coursework being equivalent in scope and content to required program coursework, in accordance with the policy established by the Graduate College. Courses are offered in a three year cycle.

REQUIREMENTS FOR THE DEGREE:

See pertinent sections in the Catalog for course descriptions.

1. Professional Core	18 credit hours
ELAD-EDFN-416 Cultural Pluralism and Schools	3 cr.
TED-ELED-414 Principles of Curriculum Development	3 cr.
TED-ELED-430 Trends and Issues in Assessment	3 cr.
TED-INMD-410 Media Technology for Educators	3 cr.
TED-READ-402 Issues in Reading Instruction	3 cr.
or	
TED-READ-410 Reading in the Content Area	3 cr.
TED-ELED-406 Research Skills for the Classroom Teacher	3 cr.
2. Bilingual/Bicultural Education	18 credit hours
TED-BLBC-438 Foundations of Bilingual Education	3 cr.
TED-BLBC-439 Ethnic Diversity in Our Schools: A Cross-Cultural/Linguistic Survey	3 cr.
TED-BLBC -440 Teaching in Culture and Language Diverse Classrooms	3 cr.
TED-BLBC 441 Materials, Methods and Techniques for Teaching Limited English Proficient Students	3 cr.
TED-BLBC-442 Assessment Tools for Bilingual Students	3 cr.
LING-414 Theories of Teaching English as a Second Language	3 cr.
Total	36 cr.

3. Process-oriented research paper, indicating mastery of formal research skills.
4. Content-oriented research paper, indicating depth in candidate's academic area of concentration.
5. Overall academic and professional assessment through a review of the candidate's portfolio and interview by program faculty.

COURSE OFFERINGS

TED-BLBC-338 Bilingualism and Education, 3 cr. Bilingualism and education in different parts of the world, its sudden importance in the United States as a method of teaching the Spanish-speaking child in the metropolitan areas to become self-directing in a culture different from his own. Emphasis will be placed upon the education problems of large ethnic groups in urban centers, such as Puerto Ricans, Mexicans, and Cubans.

Prereq.: admission to Bilingual/Bicultural Education Program.

TED-BLBC-339 Teaching Communication Skills in Cross-Language/Culture Situations, 3 cr. Course covers a variety of verbal and nonverbal communication modes in a broad array of language/culture contexts frequently encountered in bilingual/bicultural classroom situations. A primary focus will be on oral communication especially the perception recognition, and production of English as rendered by speakers of other languages. Accent, especially when it triggers semantic confusion, is emphasized. Equal significance is granted to culture modes which constitute the context for linguistic expression. The development of cross-linguistic/cultural awareness of communication is pedagogically geared to help instructors avert and overcome any miscommunications encountered in language/culture diverse classrooms and community interactions. *Prereq:* BLBC 338

TED-BLBC 340 Methods of Teaching Language and Culture Diverse Students, 3 cr. Presents detailed treatment of issues concerning the instruction of diverse language groups such as Hispanics, Asians, East Indian, Arabics, and Middle Easterners within the differentiated curriculum in American schools. Focuses on contrastive and analytical techniques for studying language and culture related to improving instruction in the subject areas. *Prereq:* BLBC 338.

TED-BLBC-341 Methods and Materials for Teaching Limited-English-Proficient Students, 3 cr. Presents strategies and theoretical models to develop teacher awareness in those areas that concern the specialized bilingual educator. There is an emphasis on the identification and location of relevant instructional materials which address bilingual education as a method of instruction for culturally and linguistically diverse children with limited English language skills. Participants are expected to apply curricular models and develop pedagogical skills in the areas of task analysis, instructional assessment, and critical evaluation of instructional materials to meet the needs of bilingual students. *Prereq.:* TED-BLBC-338 and TED-BLBC-339, or TED-BLBC-340.

TED-BLBC 342 Assessment in the Bilingual Classroom, 3 cr. Study of recent developments and trends in the assessment of language in the context of bilingual education. Analysis and evaluation of bilingual tests in current use. Review of relevant assessment procedures. *Prereq.:* TED-BLBC 338 and 341.

TED-BLBC-438 Foundations of Bilingual Education, 3 cr. Introduces the fundamentals of bilingual education through the understanding of language and culture diversity and the emergence of different bilingual and bicultural teaching and learning situations in our schools and communities. It is necessary to understand the politics and policies that govern those situations and the problems associated with them and the manner in which the emerging problems are handled and solved. All instructional problems and solutions are managed in line with the latest philosophies, theories, and principles of bilingual education and their application to culture and language diverse classroom situations. *Prereq.:* Admission to the M.A.T.: BLBC program or M.S.I.: BLBC program.

TED-BLBC-439 Ethnic Diversity in our Schools: A Cross-Cultural/Linguistic Survey, 3 cr. Surveys the ethnic, cultural, and linguistic history and evolution of the U.S. as a pluralistic nation. This survey covers precolonial America, colonization, forced displacement and exploitation of Africans and the following immigration waves since the 18th century. The cultural and linguistic characteristics of each group are discussed with highlights on language and culture maintenance, erosion, or disappearance across generations. Erosion and disappearance of language and culture are approached in terms of the processes of acculturation and assimilation, whereas their maintenance is portrayed through recent practices in pluralism of which the implementation of bilingual education and multicultural education are typical examples. *Prereq.:* TED-BLBC-438.

TED-BLBC-440 Teaching in Culture and Language Diverse Classrooms, 3 cr. Aims at the development of a methodology for teaching language/culture diverse students by comparing and contrasting a wide range of linguistically/culturally different ethnic groups. After a thorough introduction to culture and multiculturalism and their impact on formal and informal learning situations, the course is complemented with the formation and presentation of several learning centers (modules) related to the major ethnic groups. The characteristics of those groups and the identification of the most effective and efficient techniques compatible with multicultural learning situations. *Prereq.:* TED-BLBC-438.

TED-BLBC-441 Materials, Methods, and Techniques for Teaching Limited English Proficient Students, 3 cr. With the steady increase in the number of language minority students especially those with limited English proficiency, a better understanding of their affective, physical, and cognitive needs and readiness for learning in the second language and culture environments is becoming indispensable. This course provides the necessary academic, pedagogical, and clinical preparation for teaching in situations involving limited English proficient students learning through the medium of

the first or second language or a combination of both. A primary focus is on developing the most appropriate materials, approaches and methods and the necessary sets of strategies and techniques for implementation. *Prereq.:* TED-BLBC-438.

TED-BLBC-442 Assessment Tools for Bilingual Students, 3 cr. Assessment is indispensable in any language/culture learning situation and for a wide variety of purposes, e.g. proficiency, placement, achievement, diagnosis, aptitude. All teachers in monolingual and bilingual classrooms need to understand the purposes, principles, procedures of assessment and how to construct assessment tools and interpret their data. In bilingual situations where more than one language and culture are involved, teachers should be aware of language and culture interfacing and guard against biases, misconceptions and misinterpretations. Participants in this course should be able to critique, evaluate, and construct different assessment tools ranging from testing to portfolio and performance-based. *Prereq.:* TED-BLBC-438 and TED-BLBC-441.

PROGRAM in EARLY CHILDHOOD EDUCATION

The Early Childhood Education Program offers courses of study leading to the Bachelor of Arts degree. The major in Early Childhood Education (43 credit hours) includes required courses (40 credit hours) plus 3 credit hours of electives selected from a block of specified courses.

In completing the undergraduate major in Early Childhood Education, students will become knowledgeable of the diverse philosophies and models of early childhood curricula, identify the instructional needs of children in multicultural groups and of exceptional children mainstreamed into the regular classrooms; acquire skill in designing and implementing curriculum in early childhood and primary programs in all subject matter areas; become knowledgeable of the role of informal and formal instruction in the child's acquisition and development of literacy skills; acquire skill in using diagnostic and assessment techniques for evaluation as a basis for curriculum planning; and develop competence in utilizing positive classroom management procedures.

Major in Early Childhood Education for the Bachelor of Arts Degree

Required Professional Sequence Courses:

Block I:

EDUC-EDFN-302 Philosophical and Historical Foundations of Early Childhood Education 3 cr.
EDUC-EDFN-303 Early Childhood Development 3 cr.
Students must be accepted into the College of Education before they may continue to Block II.

Block II:

TED-ECED-301 Curriculum and Instruction in Early Childhood 3 cr.
(TED-ECED-301 and TED-ECED-328I must be taken concurrently)

TED-ECED-328I Clinical Experiences in Early Childhood Education Infant-Toddler 1 cr.
 (TED-ECED-301 and TED-ECED-328I must be taken concurrently; Apply to CEST Office during Block I)

TED-ECED-313 Language Development and Acquisition 3 cr.

TED-ECED-316 Child, Family, and Community 3 cr.

Block III:

TED-ECED-338 Developmental Assessment of Young Children 3 cr.

TED-ECED-352 Methods of Teaching Language Arts, Music and Art in Early Childhood 3 cr.
 (TED-ECED-352 and TED-ECED-328T must be taken concurrently)

TED-ECED-328T Clinical Experiences in Early Childhood Education Preschool-Kg and Primary-Technology Emphasis (Apply to CEST office during Block I) 1 cr.
 (TED-ECED-352 and TED-ECED-328T must be taken concurrently)

Block IV:

TED-ECED-355 Methods of Teaching Mathematics, Science, and Social Studies in Early Childhood 3 cr.
 (TED-ECED-355, TED-ECED-306, TED-ECED-328M, and TED-ECED-328S (must be taken concurrently)

TED-ECED-306 Methods of Teaching Reading in Early Childhood 3 cr.
 (TED-ECED-355, TED-ECED-306, TED-ECED-328M, and TED-ECED-328S (must be taken concurrently)

TED-ECED-328M Clinical Experiences in Early Childhood Education Preschool-Kg and Primary-Multicultural Emphasis 1 cr.
 (TED-ECED-355, TED-ECED-306, TED-ECED-328M, and TED-ECED-328S (must be taken concurrently)
 Apply to CEST Office during Block I

TED-ECED-328S Practicum in Early Childhood with Special Education 1 cr.

TED-ECED-329 Student Teaching in Early Childhood 9 cr.
 (Attend student teaching orientation meeting one year in advance, pick up application, and apply to CEST Office by posted deadline)

Electives: (Select One) 3 cr.

TED-ECED-312 Teaching Strategies with Multicultural Groups 3 cr.

TED-ECED-325 Literature For Young Children 3 cr.
 Contact ECED Advisor for additional approved electives.

Total 43 cr.

NOTE: Students must be admitted to the College of Education prior to taking TED-ECED 328I, which is the segment of clinical experience taken prior to Block II. Consult the NEIU Catalog for admission requirements to the College of Education. Students should contact the ECED program advisor to initiate an application file to the College of Education. Students must maintain a 2.75 grade point average in the major.

To be entitled for Early Childhood Type 04 certification a student must earn a grade of "B" or better in ECED-329 Student Teaching.

No required professional education courses may be taken more than twice to achieve an acceptable grade.

MINOR AREA OF STUDY

From the listing of approved minors below, select a minor of at least 18 credit hours of which 9 must be at the upper division. Read the University Catalog description and consult with the respective department regarding minor requirements and advisement procedures.

Anthropology	English	Philosophy
Art (Studio)	French	Physics
Asian Studies	Geography	Political Science
Biology	History	Psychology
Chemistry	Linguistics	Sociology
Dance	Mathematics	Spanish
Earth Science	Music	
Economics		

In addition to the professional education courses outlined above, students must complete specific general education course work as described below.

Fine Arts (6 credit hours)

ART-170 Studio Experiences 3 cr.
 MUS-104 Music Concepts 3 cr.

Humanities (9 credit hours)

English 3 cr.
 Choose from Limited List in: English, Foreign Language, Linguistics, Philosophy 6 cr.

Behavioral and Social Science (12 credit hours)

HIST-214 or 215 United States History 3 cr.
 HIST-111C or 107 or 111D or ANTH-212 (Non-Western/Third World) 3 cr.
 PSCI-AMER-216 American National Government 3 cr.
 Elective (Chosen from Limited List) 3 cr.

Biological & Physical Sciences (12 credit hours)

Coursework must include Biological & Physical Science (include one lab course)

General Education Requirements not on the Limited List:

ENGL-101 and 102 Writing I and Writing II 6 cr.
 (must receive a grade of "C" or higher)
 SPCH-COMM-202 Voice and Diction 3 cr.
 (must receive a grade of "C" or higher)
 HPER-HLED-107 Health for Effective Living 2 cr.

MATH-108 College Mathematics I	3 cr.
(must receive a grade of "C" or higher)	
MATH-109 College Mathematics II	3 cr.
(must receive a grade of "C" or higher)	
Physical Education Elective	1 cr.
Elective from Language Arts**, Science, Social Science, Humanities and/or Psychology	
(**Language Arts: Coursework in oral and written expression, grammar, spelling, handwriting, literature for children, and other literature as is commonly found in the course of study in the elementary schools, excluding professional education coursework. Consult your advisor prior to taking coursework to fulfill this elective requirement.)	

EARLY CHILDHOOD EDUCATION GRADUATE CERTIFICATION PROGRAM, TYPE 04

The SPED/ECED Graduate Certification Program, Type 04, is designed for returning students who seek a masters' degree and Early Childhood certification, Type 04. Information on the Admission Requirements to the Master of Arts Program in Special Education with a concentration in Early Childhood Education, is located in the Special Education Department section of the Academic Catalog. For further information about this program, contact Dr Elizabeth L. Anderholm, CLS 3041 Applications for admission are available from the Graduate College, CLS 4029.

PREREQUISITE COURSES:

EDFN 303 Early Childhood Development	3 cr.
EDFN 302 Philosophical and Historical Foundations of Early Childhood Education	3 cr.

REQUIRED COURSES:

ECED 410 Curriculum Development in Early Childhood Education	3 cr.
ECED 411B Practicum in Early Childhood Education	3 cr.
ECED 408 Language Acquisition and Intervention Strategies for Teachers of Young Children	3 cr.
ECED 407 Family, Child, and Teacher Interaction in Early Childhood Education	3 cr.
SPED 490 Research Seminar in Special Education or ECED 412 Research Seminar in Early Childhood Education	3 cr.
SPED 404 Survey of the Field of Special Education	3 cr.
SPED 481 Principles of Diagnosis and Teaching the Child with Special Needs Aged Three to Six Years	3 cr.
SPED 482 Assessment and Intervention with Infants and Toddlers who are At-Risk or Who Have Special Needs	3 cr.
SPED 483 Working with Parents of Young Children with Special Needs	3 cr.

SPED 488 Practicum in Early Childhood Special Education-Teaching Young Children with Special Needs	3 cr.
READ 416 Primary Reading Instruction	3 cr.
ECED 403 Early Childhood Assessment	3 cr.
ECED 352 Methods of Teaching Language Arts, Music and Art in Early Childhood	3 cr.
ECED 355 Methods of Teaching Mathematics, Science, and Social Studies in Early Childhood	3 cr.
ECED 329 Student Teaching in Early Childhood	9 cr.

COURSE OFFERINGS

TED-ECED-301 Curriculum and Instruction in Early Childhood Education, 3 cr. Relationship of theory to practice is studied in a variety of early childhood curricula with respect to teaching-learning processes. Special attention is directed to activity/learning centers, individualization, educational play, classroom management, along with planning and preparation of curricular materials (including audio-visual) for multicultural settings for normal and children with special needs. (Must be taken concurrently with TED-ECED-328I) *Prereq.:* EDUC-EDFN-302 and EDUC-EDFN-303; COE Admission.

TED-ECED-306 Methods of Teaching Reading in Early Childhood, 3 cr. Methods, techniques, and materials for the early stages of the teaching of reading; the nature of the reading process; the place of reading in the total development of the normal child, and the child with special needs. The developmental reading program with emphasis on "reading to learn" refinement of techniques and enlargement of interests with attention to study skills and types of non-verbal reading and comprehension skills. Includes work on identification of and methods of instruction for children with special needs. (Must be taken concurrently with TED-ECED-355 and TED-ECED-328M) *Prereq.:* TED-ECED-301 and consent of program area advisor.

TED-ECED-312 Teaching Strategies with Multi-Cultural Groups, 3 cr. Explores the variety of cultural values of American ethnic groups that children bring to the city classrooms and the teacher's role in enhancing each child's learning experiences. Observations and visitations to be arranged. *Prereq.:* PSYC-215 or EDUC-EDFN-303 or equivalent.

TED-ECED-313 Language Development and Acquisition, 3 cr. Focuses upon language growth and development of young children with particular emphasis upon programs and techniques designed to facilitate acquisition of language skills. Major language acquisition theories are studied. The relationship of language development to cognitive and social-emotional growth is explored. Basic language development inventories are reviewed. *Prereq.:* PSYC-215 or EDUC-EDFN-303 or equivalent.

TED-ECED-316 Child, Family, and Community, 3 cr. The study of family and community relations: working with parents; locating and using resources/programs in the community; ways of coordinating community, family, and school cooperation in a culturally diverse environment. Includes a focus upon the needs of young children, 0-3 years of age.

Prereq.: Junior standing and program advisor approval.

TED-ECED-320a Practicum in Early Childhood Alternative Settings: Preschool, 2 cr. Provides students with supervised experience working with young children in preschool settings. Students will be required to plan and teach pre-readiness activities under the direction of a qualified preschool teacher. A minimum of nine hours per week participation is required.

Prereq.: completion of the preschool education minor; concurrent registration in TED-ECED-316.

TED-ECED-325 Literature for Young Children, 3 cr. Preparation for effective teaching of literature in preschool, kindergarten and primary grades; wide readings of books for young children; guided practice in story selection and storytelling; classroom methods in the management of creative expression based on literary experience; guidance of individual reading; investigation of children's interests; classroom methods in the presentation of poems including choral reading; acquaintance with outstanding authors and illustrators of children's books; appropriate book lists and indexes. *Prereq.:* junior standing.

TED-ECED 328I Clinical Experiences in Early Childhood Education Infant-Toddler, 1 cr. Extended field and laboratory experiences in a variety of teaching/learning activities with infants/toddlers. The supervised, guided experiences are integrated with studies in TED-ECED-301 Curriculum and Instruction in Early Childhood, and fulfill a minimum of 40 clock hours of the 100 clock hours required by the State of Illinois for certification in Early Childhood Education. Supervision and individual conferences with university instructor. Concurrent course: ECED-301. *Prereq.:* EDFN -302 and 303; COE Admission.

TED-ECED 328M Clinical Experiences in Early Childhood Education Preschool-Kg and Primary-Multicultural Emphasis, 1 cr. Teaching/learning activities with preschool kindergarten and primary children in private and public school classrooms with a variety of multi ethnic populations. Sixteen weeks will be spent in a preschool-kindergarten setting or a primary classroom. The supervised, guided experiences are integrated with studies in methods classes. Supervision by university faculty, student conferences, and bi-weekly seminars. Fulfills a minimum of 50 clock hours of the 100 clock hours required by the State of Illinois for certification in Early Childhood Education. Concurrent courses: ECED-355, 306. *Prereq.:* ECED-328T and ECED-352.

TED-ECED-328S Practicum in Early Childhood Special Education, 1 cr. This course provides on-site experiences with young children who have special needs. An in depth understanding of models and strategies for working with this population will be supported by seminar topics and discussions. Thirty hours of clinical experience will be required. Concurrent courses: ECED 306, ECED 355, and ECED 328M.

TED-ECED 328T Clinical Experiences in Early Childhood Education Preschool-Kg and Primary-Technology Emphasis, 1 cr. Teaching/learning activities with preschool-kindergarten and primary children in private and public school classrooms with a technology emphasis. Sixteen weeks will be spent in a preschool-kindergarten setting or a primary classroom. The supervised, guided experiences are integrated

with studies in methods classes. Supervision by university faculty, student conferences, and biweekly seminars. Fulfills a minimum of 50 clock hours of the 100 clock hours required by the State of Illinois for certification in Early Childhood Education. Concurrent course: ECED-352. *Prereq.:* EDFN-302, EDFN-303, ECED-301, ECED-328I.

TED-ECED-329 Student Teaching in Early Childhood, 9 cr. Sixteen weeks of full-day student teaching under the supervision of a certified cooperating teacher. Students are required to take full responsibility for assigned classes of early childhood students. Weekly two-hour seminars. Regular visits and conferences with university supervisor. *Prereq.:* Completion of required professional educational courses and consent of program advisor and coordinator of student teaching. Passing score on ICTS Subject Area Examination.

TED-ECED-338 Developmental Assessment of Preschool Children, 3 cr. Focuses on the diagnosis and assessment of developing needs of the young child from birth through age five; special emphasis on measuring physical, emotional, mental and social growth to determine intervention needs. Specific programs to facilitate normal development will be planned. *Prereq.:* PSYC-215 or EDUC-EDFN-303 or equivalent.

TED-ECED-343 Independent Study in Early Childhood Education, 3 cr. Intensive individual study in one or more of the various fields of emphasis in early childhood education under faculty guidance. *Prereq.:* consent of instructor.

TED-ECED-352 Methods of Teaching Language Arts, Music and Art in Early Childhood, 3 cr. Methods and materials for teaching language arts (literature, listening, speaking, written composition, drama), music, and art to normal, learning disabled, and mainstreamed exceptional children in multicultural classes. Explores theories, concepts and approaches in the three areas as well as their relationships to one another. (Must be taken concurrently with TED-ECED-328T) *Prereq.:* TED-ECED-301, ART-170, MUS-104, SPCH-COMM-202, or equivalent and consent of program advisor.

TED-ECED-355 Methods of Teaching Mathematics, Science, and Social Studies in Early Childhood, 3 cr. A study of instructional methods and materials for teaching mathematics, science, and social studies to normal, learning disabled, and mainstreamed exceptional children in multicultural classrooms. Explores major concepts and approaches in the three areas as well as their relationships to one another and other content areas. Classroom management techniques conducive to the implementation of successful individual and group lessons are investigated. Emphasis is on preschool and primary grades. TED-ECED-306 and TED-ECED-328M taken concurrently. *Prereq.:* TED-ECED-301 and consent of program area advisor.

TED-ECED-401 Improvement of Instruction in Early Childhood Education, 3 cr. A practical experience for teachers and administrators to study topics pertinent to early childhood education. Such topics might include strategies for working with student teachers, planning for individual progressions, resource unit development, self instructional

materials for primary learning centers, or any other problems applicable to a specific school situation. *Prereq.:* graduate standing, nine credit hours in professional courses, including curriculum and either child psychology or educational psychology.

TED-ECED-402 Application of Learning Theories to Early Childhood Education, 3 cr. A review of various theories of children's mental development with implications for classroom teaching techniques. Topics to be included in this course are questioning techniques and the design of materials that provided an environment favorable to active thinking. *Prereq.:* graduate standing, EDUC-EDFN-303, or ELAD-EDFN-401, or equivalent.

TED-ECED-403 Early Childhood Assessment, 3 cr. Focuses upon the use and development of evaluation instruments for collecting information about young children. Instruments used will focus on individuality of the child and his unique growth trends and patterns of developmental needs. The materials studied will help the teacher to identify where the child is developmentally and to use instruments and techniques to evolve ways to help the individual child grow. *Prereq.:* graduate standing, SPED-303, PSYC-215, or equivalent.

TED-ECED-404 Organizing and Directing of Early Childhood Centers, 3 cr. Explores and evaluates practices in organizing and administering early childhood centers. Areas of study include housing, equipping, staffing, and financing. Policies related to health and safety, admission, grouping, recording, reporting, teacher development and school and community relations are developed. Opportunity is provided for the study of problems and issues in specific types of schools such as the cooperative nursery school, day care centers, the private nursery school, Head Start programs, Follow Through programs, Inclusive Child Development Centers—pre-kindergarten through third grade in urban and suburban communities. *Prereq.:* graduate standing, PSYC-215 or ELAD-EDFN-303 or equivalent.

TED-ECED-405 Perspectives in Early Childhood Education, 3 cr. Students will study in depth a limited number of early childhood educational ideas, past and present, and look at ways they are being implemented in classrooms. Emphasis will be on understanding the commonality among early childhood education theorists. *Prereq.:* graduate standing and nine credit hours in early childhood education.

TED-ECED-406 Perspectives on Parenting, 3 cr. Designed to train the early childhood teacher to teach parenting skills to parents. Reviews patterns of growth from birth focused on flexible parent-child communication designed to promote optimal development and stimulate growth. Provides a critical analysis and overview of several of the materials available for parent education and develop guidelines for evaluating them. *Prereq.:* graduate standing, PSYC-215, or ELAD-EDFN-303 or equivalent.

TED-ECED-407 Family, Child, and Teacher Interaction in Early Childhood Education, 3 cr. A course designed for teachers of young children who are working to integrate parents into the educational program. Family styles and parenthood are examined followed by methodologies for

involvement in children's education. Practical realities of teaching including home visits, communication skills, and alternative avenues for communication will be discussed. An exploration of the culture of the early childhood setting and implications for teachers and families will be included. *Prereq.:* graduate standing and 12 credit hours in education.

TED-ECED-408 Language Acquisition and Intervention Strategies for Teachers of Young Children, 3 cr. Focuses upon the acquisition of language as the young child develops syntactic, semantic, and pragmatic understanding. Differing viewpoints of language learning and cognitive interaction are presented. Techniques for both language assessment and intervention by the teacher of the young child are discussed. Reviews recent research and its applicability to assist the preschool teacher in facilitating language learning and evaluating existing language programs for using language as a tool of communication. *Prereq.:* graduate standing; PSYC-215; and TED-ECED-313 or equivalent.

TED-ECED-409 Child Advocacy, 3 cr. To help practitioners understand issues, areas of advocacy, and intervention techniques directed toward services and institutions that affect the lives of children, birth through nine years. *Prereq.:* graduate standing and 12 credit hours in education.

TED-ECED-410 Curriculum Development in Early Childhood Education, 3 cr. Study of the implications of theories of child development for early childhood curriculum development. Investigation of strategies for planning, teaching, and evaluating learning experiences which promote cognitive and affective development. Techniques for working with small and large groups are explored through observation and analysis of classroom interaction. Issues related to multicultural education, the utilization of community resources, and parent-teacher relationships are examined. Major early childhood programs are evaluated. *Prereq.:* graduate standing and 12 credit hours in education.

TED-ECED-411A Practicum in Early Childhood Education, 3 cr. To provide an opportunity for supervised observation and teaching with normal young children. Practical application of methods and techniques with an integrating seminar will help the practitioner develop teaching strategies. Emphasis will be on the development of skills and a self-analysis of techniques. 135 Clinical hours required. *Prereq.:* acceptance to master's degree candidacy and six credit hours in core courses (SPED-404; TED-ECED-408 or SPED-484; TED-ECED-403; TED-ECED-410; TED-ECED-407).

TED-ECED-411B Practicum in Early Childhood Education (04 Certification) 3 cr. To provide an opportunity for supervised observation and teaching with normal young children. Practical applications of methods and techniques with an integrating seminar to help the practitioner develop teaching strategies. Emphasis will be on the development of skills and self analysis of techniques. 135 clinical hours are required for 04 certification with three grade levels (Infant-toddler, preschool, kindergarten, 1st, 2nd or 3rd grades)

TED-ECED-412 Research Seminar in Early Childhood Education, 3 cr. Criteria for selecting research problems and evaluating hypotheses are explored. Various types of experimental designs and descriptive approaches to research design are investigated. Techniques for writing research proposals and reports are studied. There is an examination of recent developments in data processing related to educational research. Other topics include sampling procedures, reliability, validity, interviews, questionnaires, and observational techniques. Research project under the supervision of a faculty advisor. *Prereq.:* Acceptance to masters' degree candidacy and nine credit hours in core courses, including ECED 403, ECED 410 and ECED 408.

PROGRAM in ELEMENTARY EDUCATION

The Elementary Education Program provides students with knowledge of philosophical and psychological elements of teaching and learning, general and specific methods of instruction, and clinical intern experiences of at least 100 hours in local schools prior to the full-day student teaching experience.

Students who complete this program qualify for elementary education state certification Type 03. Upon certification, they are eligible to teach elementary school (grades K-9); additional endorsement qualifies students to teach in middle schools (grades 5-8).

Students completing the Elementary Education major will: 1) have theoretical and practical knowledge of "principles of curriculum development and design which reflect "best-practices" in elementary and middle schools; 2) have an understanding of and the skill to work effectively with children of diverse backgrounds and abilities; 3) know how to plan, implement and integrate a variety of learning activities for student centered classrooms; 4) have attained specialized knowledge of content and instructional materials, as well as skills in using technology in elementary and middle schools; 5) effectively apply classroom management techniques~demonstrating an understanding of collaborative learning strategies and group processes; 6) have attained skills in designing instruments to assess student performance and in using assessment to improve teaching and learning; 7) be able to integrate learning activities in contexts which are interesting and meaningful to elementary and middle school students; and 8) be reflective educators who are committed to life-long professional development and growth.

DEGREE REQUIREMENTS

In order to graduate from the program and be entitled to state certification, students must complete a minimum of 120 hours of study which include the following requirements:

- University General Education Program
- Professional Education Coursework
- Approved Minor
- Additional Courses Required for State Certification

- Completion of the University Computer/Information Literacy Requirement and additional computer literacy requirements as specified by the program.
- Program Exit Criteria

Required Professional Education Courses

ELAD-EDFN 305 Philosophical and Historical Foundations of Public Education	3 cr.
ELAD-EDFN 306 Education and Individual Differences	3 cr.
(Prerequisite for ELED 301)	
ELAD-EDFN 307 Psychology of Instruction and Learning	3 cr.
TED-ELED 301 Curriculum of the Elementary School	3 cr.
(Prerequisite for all methods courses)	
TED-ELED 302 Methods of Teaching Language Arts - Elementary School	3 cr.
(Prerequisite for TED-ELED 306A)	
TED-ELED 304 Methods of Teaching Social Studies - Elementary School	3 cr.
TED-ELED 305 Methods of Teaching Science - Elementary School	3 cr.
TED-ELED 306A Methods of Teaching Reading - Elementary School with Clinical	3 cr.
TED-ELED 310 Methods of Teaching Mathematics	3 cr.
Choose ONE of the following:	
ELAD-EDFN 313 Problems, Issues, and Practices in Education or	
TED-ELED 319 Classroom Organization and Management or	
TED-ELED 320 Teaching the Slow-Learning and Gifted Child or	
TED-ECED 312 Teaching Strategies with Multicultural Groups	3 cr.
TED-ELED 329 Student Teaching in Elementary Education	9 cr.

TOTAL PROFESSIONAL EDUCATION 39 cr.

Declaration of Major

In order to register for TED-ELED-301 Curriculum in the Elementary School, students must have declared their majors and be admitted to the College of Education. Students should meet with program advisors to plan their programs prior to taking ELAD-EDFN-306 Education and Individual Differences. Students should complete the necessary procedures to declare their majors and pass the Illinois Test of Basic Skills while they are enrolled in ELAD-EDFN 306. Only students who have declared their majors and passed the Illinois Test for Basic Skills will be permitted to register for Elementary Education Courses. An NEIU GPA of 2.5 is required to declare a major.

Approved Minors:

- Anthropology
- Art
- Asian Studies

Biology
 Chemistry
 Earth Science
 Economics
 English
 Foreign Language (one foreign language)
 Geography (excluding Environmental Studies)
 History
 Linguistics (ESL Sequence)
 Mathematics
 Music (K- 12)
 Philosophy
 Physics
 Political Science
 Psychology
 Sociology

Approved Second Major:

Bilingual/Bicultural Education

Please refer to pertinent sections in this catalog for requirements of approved minors and the BLBC major.

Requirements for teaching middle school (grades 5-8) are included within the course requirements for Elementary Education, with the exception of the middle school advisory component. This component is included in ELAD-EDFN-313: Problems, Issues, and Practices in Education. Students who wish to earn middle school endorsement should take this course as their elective.

The above program is also required of undergraduate transfer students and graduates of accredited universities (Second B.A. or TCP Programs). All students must consult with a Program Advisor in the Elementary Education Program.

Admission to Program

Requirements for admission to the Elementary Education Program were revised February 1, 2003.

Effective, Fall 2003, students who are intending to be ELED majors must pass the Illinois Test for Basic Skills and follow this sequence:

Sequence for Elementary Education Professional Sequence with Admission and Retention Requirements **Each level must be completed to move forward.**

Level 1:

Complete EDFN 306 with "C" or better.

Apply to College of Education

30 semester hours completed

Cumulative 2.5 GPA

Pass NEIU English Competence Examination-Writing and Reading Sections

SPCH-101 or 202 with "C" or higher

ENGL-101 with "C" or higher

ENGL-102 with "C" or higher

MATH-102 with "C" or higher

MATH-103 with "C" or higher

Faculty recommendation as required by COE

Pass the ISBE Basic Skills Examination and declare ELED major with cumulative GPA 2.5 required.

Attend mandatory ELED/BLBC Orientation Session

Level 2:

Enroll in ELED/BLBC 301 by authorization only with cumulative GPA of 2.5 and declared major and COE Admission; Initial Portfolio requirement of ELED/BLBC 301. Completion of Level I University Technology Competency Requirement is part of ELED/BLBC 301.

Enroll in ELED/BLBC 302 by authorization only with cumulative GPA of 2.5 and declared major. Authorization for ELED/BLBC 301 and 302 will not be given to any student with an "I" in EDFN 306. Take EDFN 305 and/or EDFN 307, "C" or better required. Maintain 2.75 GPA in professional sequence (includes EDFN coursework).

Admission to the College of Education by the time a student has completed 12 hours of professional courses in the program (EDFN 306; EDFN 305 or 307; ELED 301; and ELED 302). Effective September 1, 2000, a passing score on the Illinois State Board of Education's test of Basic Skills is required for admission to the College of Education.

If cumulative GPA drops below 2.5, student will not receive authorization for any ELED courses.

Level 3:

Complete two of following: ELED 304, 305, 310 (authorization required for enrollment).

Complete EDFN 305 and EDFN 307 with "C" or better (if not previously taken).

Attend mandatory Student Teaching Information meeting.

At the end of Level 3 and prior to authorization for ELED/BLBC 306A:

Obtain one recommendation from methods faculty for admission into clinical experience.

2.75 GPA in professional sequence (i.e. no more than 2 "C" grades).

Maintain 2.5 cumulative GPA.

With the completion of the above requirements, student will be considered admitted to the Elementary Education Program. Students denied program admission will be restricted from taking any additional program coursework. Students may reapply within one calendar year provided they have met all requirements. Appeals to program denials are heard by the ELED Faculty Admissions Committee.²

Level 4:

Complete ELED/BLBC 306A with grade of "B" or better in the 100 clock-hour clinical.

Cumulative Portfolio required as part of ELED/BLBC 306A
 Complete remaining methods course: ELED 304, 305, 310 (authorization required).

- Maintain cumulative GPA of 2.5.
- Maintain professional sequence GPA of 2.75 (no more than 2 "C" grades in sequence).
- Pass the ICTS Subject Area Examination
- All of the above requirements must be met before proceeding into student teaching.

Level 5:

- Complete student teaching - ELED/BLBC 329 and EDFN 313 or ELED 319 or other elective.
- Maintain professional sequence GPA of 2.75.
- Maintain cumulative GPA of 2.5.
- Exit Cumulative Portfolio required in ELED/BLBC-329 Student Teaching.
- Pass ISBE subject area examination.³

ELED Program Exit Criteria:

- Completion of all NEIU and COE General Education Requirements.
- Completion of all professional education sequence courses and requirements.
- Maintain cumulative GPA of 2.5.
- Maintain professional sequence GPA of 2.75.

In order for students to receive entitlement for Elementary certification, they must have received a "B" or better in student teaching and have passed the ISBE Basic Skills and Subject Area examinations.

NOTES:

¹ Students will be advised to take the ISBE Basic Skills Examination beginning with Level 1. They will be expected to have passed this examination prior to declaring a major. Students who do not pass the ISBE Basic Skills Examination will receive advisement with respect to campus resources, i.e. tutoring, as well as taking developmental courses in mathematics, reading, English; other related coursework, or available learning modules as appropriate.

² To initiate an appeal, the student must present a copy of their academic record along with a detailed, written rationale for their appeal to the Department Chairperson. The Department Chairperson will refer the appeal to the ELED Faculty Admissions Committee (FAC). All appeals will be processed within a two-month period of their initial submission to the Faculty Admissions Committee. While an appeal is being processed the student will not be authorized to proceed in the program. The ELED Faculty Admissions Committee will be composed of faculty selected by the ELED Program for a one-academic year term. Upon review of the admission appeal, the committee may decide to grant provisional admission for one semester. No student will be allowed to proceed into Level 5/Student Teaching on provisional status. When provisional status is given, the FAC will notify the student in writing the specific terms of the provisional status. If the provisional status is not granted, the student may reapply for program admission within one calendar year provided they have met all requirements.

³ Pending ISBE approval.

Prior to student teaching, all Elementary Education majors must complete a minimum of 100 clock hours of clinical experience to be eligible for certification in the State of Illinois. This clinical experience (completed in conjunction with ELED-306A) requires placement in a public or private elementary school with a state certified teacher. To request placement for clinical experience, students must register in the Office of Clinical Experiences and Student Teaching (Please see the section, Clinical Experiences and Student Teaching in this catalog).

In order to be considered for Clinical Experiences, students must be admitted to the College of Education and accepted into the Elementary Education Program. In addition, students must have completed TED-ELED-301 or TED-BLBC-301: Curriculum in the Elementary School, TED-ELED-302 or TED-BLBC-302: Methods of Teaching Language Arts in the Elementary School, and two other methods courses.

To request placement for student teaching, students must register in the Office of Clinical Experiences and Student Teaching (Please see the section, Clinical Experiences and Student Teaching in this catalog.) In order to be authorized for Student Teaching, students must meet with the Program Advisor for an academic record review.

To qualify for Student Teaching, students must maintain a minimum grade point average of 2.75 in the Professional Sequence and have passed the ICTS Subject Area Examination. No required professional education course may be taken more than twice to achieve an acceptable grade. To be entitled for certification by the State of Illinois, a student must earn a grade of "B" or better in Student Teaching.

Additional Requirements for Certification:

In addition to the successful completion of the Elementary Education major and one of the approved minors or second majors, students must complete the **general education** requirements for the College of Education. These requirements are:

Requirements which are a part of Northeastern's 39-hour General Education Program and are on the Limited List:

Fine Arts (6 hours)

- ART-170 Studio Experiences 3 cr.
- MUS-104 Music Concepts 3 cr.

Humanities (9 hours)

- English 3 cr.
- To be selected 6 cr.

Behavioral and Social Science (12 hours)

- HIST-214 United States History 1607-1877 or HIST-215 United States History 1877-Present 3 cr.
- PSCI-AMER-216 American National Government 3 cr.
- Non-Western or Third-World Cultures course HIST-111C or 107 or 111D or ANTH-212 3 cr.
- Elective 3 cr.

Biological & Physical Sciences (12 credit hours)

Coursework must include Biological & Physical Science
(include one lab course) 12 cr.
Total 39 cr.

General Education Requirements which are not on the Limited List:

1. Six semester hours in written communication (English 101 and 102). (must receive a grade of "C" or higher)
2. Three semester hours in oral communication (SPCH-COMM 101 or SPCH-COMM 202). (must receive a grade of "C" or higher)
3. Six credit hours in mathematics including MATH-108 and 109. (Must receive a grade of "C" or higher)
4. HPER-HLED-107 Health for Effective Living (2 credit hours) and Physical Education Activity Course (1 credit hour.)

In addition to completing the certification program requirements, ELED students seeking certification must pass the Illinois Certification Basic Skills Test and appropriate Subject Matter Test.

All early childhood, elementary, secondary, and special education students who have been admitted to the College of Education prior to September 1, 1990 but who will complete their certification programs after **May, 1992** must meet additional requirements in American History, American Government, and non-Western/Third World Cultures.

COURSE OFFERINGS

TED-ELED-301 Curriculum of the Elementary School, 3 cr. The relationship of theory to practice is studied in a variety of elementary curricula. Analyses and interpretations of teaching-learning processes are conducted. Special attention is directed to: (1) instructional objectives in planning, (2) application of theories of child development, learning, classroom management, and instructional methodology to multicultural curriculum development, (3) unit and lesson planning, and (4) evaluation techniques. Strategies for meeting the needs of students with special needs are explored.

Prereq: EDUC-EDFN-306 and declaration of major, and COE Admission.

TED-ELED-302 Methods of Teaching Language Arts - Elementary School, 3 cr. Materials and techniques for the teaching of writing, speaking, and listening skills. The function of language in the life of the child, the relationship of language in other areas of learning as well as in multicultural settings. Attention given to linguistically and culturally diverse learners and students with special needs in the regular and middle school classroom. Emphasis on intermediate and middle school grades. *Concurrent course:* TED-ELED/BLBC-301.

TED-ELED-304 Methods of Teaching Social Studies - Elementary School, 3 cr. A study of instructional methods and materials for teaching social studies to all students, including exceptional students. Explores approaches to promoting

children's cognitive and affective concept formation, critical thinking, exploration of problems associated with methods of research and appreciation of cultural diversity and global issues. May be accompanied by supervised, sequential clinical experiences culminating in teaching student-developed instructional units. Classroom management techniques conducive to the implementation of successful individual and group unit projects are investigated. Emphasis on intermediate and middle school grades. *Prereq:* TED-ELED/BLBC-301 and admission to College of Education.

TED-ELED-305 Methods of Teaching Science - Elementary School, 3 cr. A study of instructional methods and materials for teaching science to all students including linguistically and culturally diverse learners and exceptional children. Emphasizes development of lessons to promote scientific thinking and utilization of basic scientific principles and experimentation. Includes classroom management strategies conducive to the implementation of successful individual and group science investigations. May be accompanied by sequential, supervised clinical experiences culminating in teaching student-developed instructional units. Emphasis on intermediate and middle school grades.

Prereq: TED-ELED/BLBC-301 and admission to College of Education.

TED-ELED-306A Methods of Teaching Reading - Elementary School with Clinical Experience, 3 cr. Examines current issues and research in the teaching of reading. Emphasis is given to exploring the instructional methods and materials for teaching reading to all students including linguistically and culturally diverse learners and students with special needs. Principles of classroom management are included. Accompanied by 100 hours of supervised, sequential clinical experiences culminating in teaching student developed instructional units. Emphasis on intermediate and middle school grades. *Prereq:* TED-ELED/BLBC-301, TED-ELED/BLBC 302, two additional methods courses and admission to College of Education.

TED-ELED-306B Methods of Teaching Reading - Elementary School without Clinical Experience, 3 cr. For non-program students who do not need the 100 hours of supervised, sequential clinical experiences.

TED-ELED-307 Independent Study in Selected Problems in Elementary Education, 1 cr. An in-depth study designed for individual students who wish to pursue interests independently in specific areas of elementary education and teaching methodology through readings, investigations, field experiences, reports, and conferences under the guidance of department faculty. *Prereq:* consent of instructor.

TED-ELED-308 Independent Study in Selected Problems in Elementary Education, 2 cr. (See TED-ELED-307 for description.)

TED-ELED-309 Independent Study in Selected Problems in Elementary Education, 3 cr. (See TED-ELED-307 for description.)

TED-ELED-310 Methods of Teaching Mathematics-Elementary School, 3 cr. Development of methods, techniques, and teaching aids for the teaching of mathematical concepts to all children including exceptional and gifted students in multicultural classrooms. Appropriate techniques in classroom management are included. May be accompanied by sequential, supervised clinical experiences culminating in teaching student-developed instructional units.

Prereq.: TED-ELED/BLBC-301 and MATH-103 with a grade of "C" or higher and admission to College of Education.

ELED-311 School Curriculum, 3cr. Selection, organization and use of materials and methods based on theory and practice for early childhood, elementary and secondary levels of instruction and learning are studied. Discussion of the unit, the lesson plan, classroom management, higher order thinking techniques, decision-making process and elements of effective teaching. Emphasis on planning and methodology for integration of multicultural curriculum and mainstreamed exceptional program needs. This course only applicable to K-12 certification. *Prereq.:* EDFN-305, 306 & 307.

TED-ELED-315 Teaching in the Inner City Elementary School, 3 cr. Educational problems inherent in the inner city milieu, exploration of developmental learning concerns as applicable in various ethnic groups; study of socio-economic conditions as relating to educational achievements. *Prereq.:* TED-ELED/BLBC-301.

TED-ELED-319 Classroom Organization and Management, 3 cr. Designed for the beginning teacher; exploration of the various methods by which the classroom may be organized and brought to a level of discipline necessary for effective teaching, examination of such topics as mainstreaming, organizing for instruction, multicultural aspects, teacher-pupil rapport, class discussion, importance of motivation, techniques of discipline, and including the exceptional learner in the elementary school classroom. *Prereq.:* TED-ELED/BLBC-301 and admission to College of Education.

TED-ELED-320 Teaching the Slow-Learning and Gifted Child in the Elementary School, 3 cr. Exploration of needs and problems of gifted, talented, learning disabled, and slow learners in the regular elementary school classroom. Attention focused on providing each child with the most appropriate education in the least restrictive environment. Review of selected literature of relevant school and classroom organization, teaching strategies and case studies. *Prereq.:* TED-ELED/BLBC-301.

TED-ELED-328 Clinical Experience in Elementary Education, 3 cr. Provides intensive clinical experience in elementary schools for students not enrolled in TED-ELED-306A. Involves supervised and graduated teaching interactions with children in selected subject areas. Bi-weekly seminars scheduled. Fulfills a minimum of 100 clock hours of clinical experiences required by the state for certification. *Prereq.:* TED-ELED/BLBC-301, two additional methods courses and consent of chairperson; passing score on ICTS Subject Area Examination.

TED-ELED-329 Student Teaching in Elementary Education, 9 cr. Sixteen weeks of full-day student teaching under the tutelage of a certified cooperating teacher. Students are required to take full responsibility for a class of elementary school students. Weekly two hour seminars. Regular visits and conferences with university supervisors. *Prereq.:* successful completion of all course work in ELED/BLBC Education major, approval of department chairperson and coordinator of student teaching, and admission to College of Education; Passing score on ICTS Subject Area Examination.

TED-ELED-403 Problems in Elementary Mathematics Instruction, 3 cr. Develops an understanding of principles and techniques of instruction in elementary school mathematics. Students will be expected to investigate research as it relates to the improvement of instruction in mathematics.

Prereq.: graduate standing.

TED-ELED-405 Problems in Elementary Social Studies Instruction, 3 cr. Develops an understanding of principles and techniques of instruction in elementary school social studies. Students will be expected to investigate research as it relates to the improvement of instruction in social studies.

Prereq.: graduate standing.

TED-ELED-406 Research Skills for the Classroom Teacher, 3 cr. Enables the regular classroom teacher to use tools and procedures that will demonstrate the working effectiveness of any instructional practice; thus, the teacher will develop data that will foster constructive decision-making for continued curriculum building. *Prereq.:* graduate standing.

TED-ELED-414 Principles of Curriculum Development, 3 cr. Fundamental criteria for curriculum planning and the principal types of curriculum patterns as they apply to various subject-matter disciplines; emphasis focused on the student's subject area of specialization and its applicability to the improvement of the curriculum in the classroom and in the school; study of selection and organization of learning experiences, as well as objectives and evaluation. *Prereq.:* graduate standing and consent of instructor.

TED-ELED 415 Interrelating Science And Mathematics With Clinical, 3 cr. The subject links between science and mathematics will be investigated. Emphasis will be placed on the natural and logical relationship of science and mathematics. Different instructional models will be explored, research questions considered, and current resources identified. Attention will be given to utilizing strategies for establishing firmer school ties between the two disciplines. A minimum of 50 clinical hours required. *Prereq.:* TED-ELED-414 and ELAD-EDFN-416. Consent of program advisor and coordinator of Clinical Experiences required.

TED-ELED 416 - Strategies Of Teaching Social Studies And Language Arts With Clinical, 3 cr. An integrative approach to teaching language arts and social studies will be introduced. Characteristics of the learner within their cultural heritage, sources of literary and community information, and concepts embodied in interdisciplinary theme units will be examined along with strategies for facilitating communication

competencies in the content areas, fine arts, and humanities. Methods of inclusion of special needs students in the regular classroom are included. A minimum of 50 clinical hours is required. **Prereq.:** TED-ELED-414 and ELAD-EDFN-416. *Consent of program advisor and coordinator of Clinical Experiences required.*

TED-ELED-417 Multicultural Literature and Drama in the Elementary Classroom, 3 cr. Develops an in-depth understanding of multicultural literature and its application in the classroom through creative drama techniques which include improvisation, role-play, playmaking and guided imagery. Study, discussion, and hands-on application through cooperative learning groups focusing on exploration of theoretical and pedagogical research and their relationship to thinking, listening, speaking, reading and writing competencies. Exploration of the use of visual arts and its application to the multicultural classroom. **Prereq.:** ELED 414, EDFN 416 and ELED 419.

TED-ELED-418 Theoretical Implications for Elementary Classroom Instruction, 3 cr. The contributions of learning psychologists that are applicable to the teaching-learning process; areas explored include implications of learning in curriculum design, instructional methods, educational decisions, and in the use of learning resources; relevant for the classroom teacher who attempts to utilize learning concepts in the classroom and in research. **Prereq.:** graduate standing and consent of instructor.

TED-ELED-419 Current Issues in Elementary Language Arts Instruction, 3 cr. Development of an understanding of principles and techniques of instruction in elementary school language arts; students to investigate research as it relates to the improvement of instruction in language arts. **Prereq.:** graduate standing.

TED-ELED-421 Seminar in Elementary Education, 3 cr. Timely seminars designed to afford opportunity for in-service elementary teachers to share in the scholarly interests of department staff, visiting faculty, and guest lecturers in current specialized areas of elementary curriculum and teaching. **Prereq.:** graduate standing and consent of instructor.

TED-ELED-422 Problems in Elementary Science Instruction, 3 cr. Develops an understanding of principles and techniques of instruction in elementary school science. Students will be expected to investigate research as it relates to the improvement of instruction in science. **Prereq.:** graduate standing.

TED-ELED-423 Extern Seminar in Elementary Education, 3 cr. Offered separately 1) to beginning teachers and 2) to experienced teachers. A series of in-service seminars for elementary school teachers. The content of each seminar will be planned by the students to meet their needs. Resource people will assist in working toward solutions to the many practical problems confronting individual teachers or staff. The course may be repeated once. **Prereq.:** graduate standing and consent of instructor.

TED-ELED 429 Internship in Elementary Education, 6 cr. Students are provided with an opportunity to implement and plan instructional units on a long range basis. Having acquired the knowledge base through interdisciplinary coursework

and methods classes and having employed a beginning instructional technique during their clinical component, the students will now have the opportunity to apply these jointly during an entire semester by assuming the full range of teaching duties in an exemplary elementary setting. **Prereq.:** Completion of all coursework in M.A.T. Program Elementary Sequence, except TED-430 and permission from Office of Student Teaching; passing score on the ICTS Subject Area Examination.

TED-ELED 430 Trends and Issues in Assessment, 3 cr. Reviews principles of educational testing and evaluation. Explores trends and critical issues in assessment with emphasis on the teacher's role in relating assessment to instructional objectives. Provides opportunities for students to study assessment strategies and issues specific to the level (elementary or secondary), linguistic-cultural background, and subject-matter area of their teaching or internship assignment. **Prereq.:** Graduate standing; (For M.A.T.: concurrent registration in graduate internship/student teaching)

TED-ELED-435 Literature for Intermediate and Middle School Students, 3 cr. Students will survey, peruse, and study all genres of literature appropriate for intermediate and middle school level students. Quality literature suitable for all areas of integrating stories into various curricular areas will be stressed. Students will be able to identify appropriate literature types to be used for intensive literature circle study, recreational reading, and selection strategies for sharing literature with children and young adults. Multicultural and multiglobal sources will be utilized throughout the course. **Prereq.:** Graduate standing in a certification or endorsement program. Nine credit hours in professional education course work.

PROGRAM in LANGUAGE ARTS

Master of Arts in Teaching: Language Arts

The Master of Arts in Teaching: Language Arts Program has been designed for returning students who wish to obtain initial teacher certification at the elementary or secondary level along with a master's degree in the area of Language Arts and English instruction.

This program has three components of coursework:

- Professional Core in the areas of multicultural education, media technology, literacy theory/pedagogy, general curriculum development, and research- 18 credit hours
- Concentration in Language Arts with courses in curriculum and instruction, reading, linguistics, English and/or speech- 18 credit hours,
- Certification coursework composed of additional pedagogical study and field experiences (including 100 hours of clinical experiences and student teaching internship) - 15 credit hours for elementary and 9 credit hours for secondary.

Students must also have completed general education requirements as specified by the Illinois State Board of Education.

Admission Requirements:

- An undergraduate Bachelor's degree from accredited university or college
- A minimum undergraduate GPA of 2.75 (4.0 scale)
- Undergraduate coursework in English (composition or literature), Speech–Drama or Linguistics: for the elementary sequence, 18 credit hours are required; for the secondary sequence, a major in English with a minimum of 32 credit hours is required.
- Six (6) credit hours in the history/ philosophy of education (ELAD-EDFN-405: Development of Educational Thought) and educational psychology (learning and development: ELAD-EDFN-406: Human Development and Learning) or equivalent.
- Graduate Records Examination score
- Pass the Illinois State Board of Education Basic Skills Examination

State teacher examinations:

M.A.T. students are required to pass State of Illinois Basic Skills, Subject Matter Knowledge, and the Assessment of Professional Teaching tests. Study guides and applications are available at www.icts.nesinc.com.

Middle School Endorsement is integrated into the required coursework of the elementary and secondary sequences. Students who complete the MAT Program will receive Middle School Endorsement.

Requirements for the degree:

Program students must see their advisor to obtain a copy of the course sequence and the program retention criteria.

All graduate credits will be at the 400 level, except for a limited number of 300 level courses specifically approved for graduate degree credits in a given Master's degree program. Departments may permit students to apply up to three of these 300 level courses, to a maximum of ten credit hours, to fulfill program requirements. This policy applies to all students entering graduate degree programs beginning with Fall 1997. Consult with your program advisor or the Graduate College for details.

Elementary Sequence: 51 credit hours

1. Professional Core	18 cr.
ELAD-EDFN 416 Cultural Pluralism and the Schools	3 cr.
TED-ELED 414 Principles of Curriculum Development	3 cr.
TED-ELED 430 Trends and Issues in Assessment	3 cr.
TED-INMD 410 Media Technology for Educators	3 cr.
READ 402 Issues in Reading Instruction	3 cr.
TED-ELED 406 Research Skills for the Classroom Teacher	3 cr.

2. Concentration in Language Arts 18 cr.

TED-ELED 418 Theoretical Implications for the Elementary Classroom	3 cr.
TED-ELED 419 Current Issues in Elementary Language Arts Instruction	3 cr.
LING 401 Fundamentals of Modern Linguistics OR LING 414 Theories of Teaching English as a Second Language	3 cr.
TED-READ 425 Literature-based Reading Programs for the Elementary Classroom	3 cr.
OR TED-ELED 435 Literature for Intermediate and Middle School Students	3 cr.
TED-READ 414 Reading and Writing Processes	3 cr.
TED-ELED 417 Multicultural Literature and Drama in the Elementary Classroom	3 cr.

3. Certification Component 15 cr.

SPED 404 Survey of the Field of Special Education	3 cr.
TED-ELED 415 Interrelating Science and Math with Clinical Experience	3 cr. (Apply to CEST Office CLS 4023 six months in advance)
TED-ELED 416 Strategies of Teaching Social Studies and Language Arts with Clinical Experience	3 cr. (Apply to CEST Office CLS 4023 six months in advance)
TED-ELED 429 Internship in Elementary Education.	6 cr. (Apply to CEST Office CLS 4023 one year in advance)

4. Oral Examination

A final oral exam scheduled in the final term of the completion of all coursework

5. Two research papers

One is required in ELED 406.

Secondary Sequence: 45 credit hours

1. Professional Core	18 cr.
ELAD-EDFN 416 Cultural Pluralism and the Schools	3 cr.
TED-SCED 401L New Directions in the Teaching of English in the Junior-Senior High School with Clinical Experience	3 cr. (Apply to CLS 4023 six months in advance)
TED-ELED 430 Trends and Issues in Assessment	3 cr.
TED-INMD 410 Media Technology for Educators ..	3 cr.
TED-READ 402 Issues in Reading Instruction	3 cr.
TED-SCED 421L Research in the Teaching of Language Arts	3 cr.
2. Language Arts Concentration	18 cr.
TED-SCED 407A Teaching Multiethnic Literature in Junior and Senior High Schools with Clinical Experience	3 cr.

(Apply to CEST Office CLS 4023 six months in advance)

TED-READ 415 Reading and Writing
in the Content Area 3 cr.

LING 401 Fundamentals of
Modern Linguistics 3 cr.

Electives selected from areas of English Literature,
Creative Writing, Linguistics or Speech 9 cr.

See your program advisor for recommended courses.

3. Certification Component 9 cr.

SPED 404 Survey of the Field
of Special Education 3 cr.

TED-SCED 429 Internship in
Secondary Education 6 cr.
(Apply to CLS 4023 one year in advance)

4. Oral Examination

A final oral exam scheduled in the final term of completion of
all coursework.

5. Two research papers

One is required in TED-SCED 421L.

Note: For descriptions of the coursework and prerequisites,
please see pertinent sections of the catalog.

M.S. in Instruction: Language Arts

The M.S. in Instruction: Language Arts Program is designed
to offer professional development to classroom teachers
who are interested in updating and refining their teaching
competencies in the areas of Language Arts and English
instruction at the elementary or secondary level. Graduates
of this program will have updated and advanced knowledge
of the theoretical foundations of literacy and language
acquisition, principles of curriculum planning and development,
language arts research, as well as instructional strategies for
enhancing children's acquisition of reading, writing, listening,
and speaking competencies in culturally diverse classrooms.
Throughout the program there is an emphasis on enhancing
teachers' leadership skills in developing and implementing
language arts and English curricula.

Within this program students complete coursework in two
areas:

- a professional core composed of coursework in literacy
foundations (theory and pedagogy), curriculum
development, cultural diversity, assessment, media
technology, and research-18 cr hrs.
- a concentration in language arts with interdisciplinary
coursework in education, reading, English, linguistics, and/
or speech - 18 cr hrs.

Admission Requirements

- A minimum undergraduate GPA of 2.75 (4.0 scale)
- A current, valid, state teaching certificate

- Eighteen (18) credit hours undergraduate coursework in
English literature/composition, linguistics, and/or speech
- Fifteen (15) credit hours of undergraduate coursework in
education with one, three credit hour course in the methods
of teaching reading or English
- Completed application with two letters of recommendation
and official transcripts

Requirements for the degree

Elementary Sequence: 36 credit hours

1. Professional Core 18 cr.

ELAD-EDFN 416 Cultural Pluralism and the Schools 3 cr.

TED-ELED 414 Principles of
Curriculum Development 3 cr.

TED-ELED 430 Trends and Issues
in Assessment 3 cr.

TED-INMD 410 Media Technology for Educators .. 3 cr.

TED-READ 402 Issues in Reading Instruction
OR

TED-READ 410 Teaching Reading
in the Content Area 3 cr.

TED-ELED 406 Research Skills for the
Classroom Teacher 3 cr.

2. Concentration in Language Arts 18 cr.

TED-ELED 418 Theoretical Implications for the
Elementary Classroom 3 cr.

TED-ELED 419 Current Issues in Elementary
Language Arts Instruction 3 cr.

LING 401 Fundamentals of Modern Linguistics
OR

LING 414 Theories of Teaching English
as a Second Language 3 cr.

TED-READ 425 Literature-based Reading Programs
for the Elementary Classroom 3 cr.

OR

TED-ELED 435 Literature for Intermediate/
Middle School Students 3 cr.

TED-READ 414 Reading and Writing Processes 3 cr.

TED-ELED 417 Multicultural Literature and
Drama in the Elementary Classroom 3 cr.

3. Oral Examination

A final oral exam scheduled in the final term of the completion
of all coursework.

4. Two research papers

One is required in ELED 406.

Secondary Sequence: 36 credit hours

1. Professional Core 18 cr.

ELAD-EDFN 416 Cultural Pluralism
and the Schools 3 cr.

TED-SCED 401E New Directions in the Teaching
of English at the Junior-Senior High School
without Clinical Experience 3 cr.

TED-ELED 430 Trends and Issues
in Assessment 3 cr.

- TED-INMD 410 Media Technology for Educators .. 3 cr.
- TED-READ 402 Issues in Reading Instruction 3 cr.
- TED-SCED 421L Research in the Teaching
of Language Arts 3 cr.

2. Language Arts Concentration 18 cr.

- TED-SCED 407B Teaching Multiethnic Literature
in Junior and Senior High Schools
without Clinical Experience 3 cr.
- TED-READ 415 Reading and Writing
in the Content Area 3 cr.
- LING 401 Fundamentals of Modern Linguistics 3 cr.

Electives selected from areas of English Literature,
Creative Writing, Linguistics or Speech 9 cr.
See your advisor for recommended courses.

3. Oral Examination

A final oral exam scheduled in the final term of completion of
all coursework.

4. Two research papers

One is required in SCED 421L.

Note: For descriptions of the coursework and prerequisites,
please see pertinent sections of this catalog.

INSTRUCTIONAL MEDIA

INMD 410-Media Technology for Educators, 3 cr. The
media technology course will encompass all types of curricular/
learning materials in varied formats-CD-Rom. Laser disc
technology, telecommunications, formats, satellite learning,
and on-line databases. Multimedia educational software will
be integrated into computer instruction in multicultural/
multiethnic learning presentations. Electronic data
management, classroom applications, and integrated learning
systems will be utilized in educational settings. *Prereq: Graduate
standing.*

MASTER OF ARTS in READING

The Department of Teacher Education offers a Master of
Arts Degree in Reading, leading to Type 10 Certification in
Reading. The Master of Arts in Reading Program is designed
to meet the urgent need for informed and trained specialists
at both the elementary and secondary school levels. The
specific objectives of the program are: to increase the students’
knowledge of the nature and scope of the reading process;
to advance professional training in the teaching of reading;
to provide special training in diagnosis and remediation of
reading difficulties; and to prepare students for leadership in
planning, administering and supervising both developmental
and remedial reading programs.

Requirements for Admission to the Program:

**For students admitted to Master’s Programs for the Fall
1997 semester and thereafter,** all graduate credits will be
at the 400 level.

Students must meet the requirements for admission to the
Graduate College.

**Requirements for Admission to the Master of Arts in
Reading Program**

1. A course of psychology
2. One of the following courses or its equivalent:
TED-READ-301 Teaching Reading in Junior
and Senior High School 3 cr.
TED-READ-311 Fundamentals of
Reading Instruction 3 cr.
TED-ECED-306 Methods of Teaching
Reading in Early Childhood 3 cr.
TED-ELED-306 Methods of
Teaching Reading –Elementary School 3 cr.
3. GPA of 3.0
4. Graduate Record Exam score
5. Illinois Certification Testing System Basic Skills Test-
passing score
6. Current Illinois teaching certificate, Type 03, 04, or 09.

Requirements for the Degree:

Required Courses:

Sequence I

- TED-READ-416 Primary Reading Instruction 3 cr.
- TED-READ-417 Reading Instruction in Intermediate
and Upper Grades 3 cr.
- TED-READ-412 Measurement and
Evaluation of Reading 3 cr.
- TED-READ-414 Reading and Writing Processes 3 cr.
or
- TED-READ-415 Reading and Writing
in the Content Area 3 cr.

Sequence II

- TED-READ-401 Developmental Reading Theory 3 cr.
- TED-READ-425 Literature-Based
Reading Instruction 3 cr.
- TED-READ-407 Diagnosis and Remediation
of Reading Disabilities 3 cr.

Sequence III

- TED-READ-403 Curriculum and
Supervision in Reading 3 cr.
- TED-READ-404 Clinical Practicum in Reading 3 cr.
- TED-READ-405 Research Seminar in Reading 3 cr.

Electives

Two additional three-credit hour graduate courses must be
taken to satisfy the elective requirements for the program.
A list of approved electives is available in the Reading
Program Office.

Total 36 cr.

Program Requirements

1. No more than 3 hours of C credit is acceptable. Upon receiving a second grade C, the student must petition to the Dean of the Graduate College, in writing, providing full rationale for permission to continue in the program.
2. Student must successfully complete sequence one level courses (READ 416, 417, 412, 414 or 415) and sequence two level courses (READ 401, 425, 407) before taking reading 404.
3. Student must successfully complete State Subject matter test before taking reading 404.
4. Student must successfully complete the ITBS and APT test to qualify for Type 10 Certification.

Thesis Option

Upon invitation by the program advisor at the time of acceptance to degree candidacy, a student has the option of writing a master's thesis for six hours of credit. The course, TED-READ-406 Thesis Seminar: Reading, takes the place of two electives.

Illinois Certification Testing System (ICTS) - Tests Required for Certification

Three state tests are required. A passing score on the ICTS Basic Skills test is required for program admission. Prior to authorization for TED-READ 404-Clinical Practicum in Reading, candidates must pass the ICTS Subject Area Test (in Reading). Beginning in October 2003, candidates must pass the ICTS Assessment of Professional Teaching test prior to applying for certification.

Final Evaluation

Upon completion of all required courses in the program, each student must pass a written comprehensive examination.

Reading Center

The M.A. in Reading Program operates a Reading Center, which gives graduate students practicum experiences in assessing, planning, and implementing instructional programs for students with reading problems. The Center is attended by students from the community who are recommended by teachers and parents. Students receive a thorough reading diagnosis at the Center. In addition, individual and small group instruction, incorporating innovative strategies and materials, helps students improve their literacy. The Reading Center also sponsors a variety of activities and programs for the community.

COURSE OFFERINGS

TED-READ-301 Teaching Reading in Junior and Senior High School, 3 cr. Explores theory, methodology, and problems involved in teaching reading at the junior and senior high school levels. Emphasis is on developing a working definition of reading and comprehension, diagnosing and understanding individual needs of normally achieving and reading handicapped students. Assessment of reading, understanding the relationship between reading and learning in content areas and practical strategies for improving comprehension of school materials are considered. *Prereq.:* junior standing.

TED-READ-311 Fundamentals of Reading Instruction, 3 cr. An introduction to the teaching of reading; its nature, objectives, programs, materials, and organizational strategies. Development and evaluation of reading skills and interests, provision for reading growth among all learners, and improving reading in content areas are also discussed.

TED-READ-401 Developmental Reading Theory, 3 cr. Discussion and appraisal of the physiological, psychological, and psycholinguistic bases of the developmental reading process; discussion of learning theories as they relate to the teaching of reading; critical analysis of theoretical models and frameworks of the reading process and product, including discussion of models of reading. *Prereq.:* Admission to M.A. Program in Reading.

TED-READ-402 Issues in Reading Instruction, 3 cr. Discussion of selected issues in reading related to instructional methods, classroom assessment techniques, types of reading programs, and innovations and trends of reading instruction. Also included are the topics of readability, content area reading, utilization of research in reading, and alternatives for meeting the reading needs of the exceptional learner.

Prereq.: graduate standing.

TED-READ-403 Curriculum and Supervision in Reading, 3 cr. Treats principles and procedures in developing a sound school curriculum in reading to meet the needs of normally achieving and special needs students from varied ethnic and language backgrounds, the roles and responsibilities of reading consultants, coordinators, and supervisors; in-service reading programs; and the evaluation of reading programs. Surveys the impact of historical and current influences on the reading curriculum.

Prereq.: Master's degree candidacy in Reading .

TED-READ-404 Clinical Practicum in Reading, 3 cr. Provides clinical experience in diagnosis and remediation of reading disability cases. Students diagnose and give remedial reading treatments to disabled individuals and small groups. *Prereq.:* master's degree candidacy in Reading, TED-READ-407.

TED-READ-405 Research Seminar in Reading, 3 cr. Acquaints the student with sources and trends of completed research in the psychology, pedagogy, and sociology of reading; research design and procedures; criteria of planning and appraising scientific studies in reading. Project and/or research paper required. *Prereq.:* master's degree candidacy in Reading, TED-READ-401.

TED-READ-406 Thesis Seminar—Reading, 6 cr. Guidance of students conducting research and writing a thesis to fulfill the requirements of the program, Master of Arts in Reading. *Prereq.:* master's degree candidacy in Reading and invitation of program advisor.

TED-READ-407 Case Studies in Diagnosis and Remediation of Reading Disabilities, 3 cr. A case study approach to the diagnosis and remediation of reading disabilities. Individual case studies are used to emphasize both causal and/or inhibiting factors in reading disability, as well as the analysis of the reading problem. Appropriate remedial instruction is related to diagnostic findings. *Prereq.:* Master's degree candidacy in Reading, TED-READ-412, TED-READ-416, TED-READ-417.

TED-READ-408 Topical Seminar in Reading: Title Varies, 3 cr. These courses present detailed treatment of selected issues and concerns in Reading. Consult the Schedule of Classes for current offerings. Recent titles have included the Issues in Reading Comprehension, the Reading Process and Language Development, Innovations and Trends in Reading Assessment, and Literacy Development. *Prereq.:* graduate standing, six graduate hours in Reading.

TED-READ-409 Advanced Reading Practicum, 3 cr. Provides in a clinical and/or on-site setting, opportunities to explore innovative diagnostic and instructional practices. In-depth study of particular reading problems as well as overall reading program development is encouraged. *Prereq.:* graduate standing, six graduate hours in Reading.

TED-READ-410 Teaching Reading in the Content Areas, 3 cr. This gives students the opportunity to explore methods for increasing reading comprehension for students at the "reading to learn" stage, typically grades 5 through adult. A student's comprehension of materials of varied purposes and subjects is explored. Both instructional classroom activities and reasoning behind these activities area presented. The research on content-area instruction is explored and reviewed. The course covers theory and practice in comprehension, culturally diverse students, at-risk students, vocabulary, writing, specific content areas (e.g., mathematics, science, history, literature), study strategies, and assessment as each pertains to reading in the content areas.

TED-READ-412 Measurement and Evaluation of Reading, 3 cr. Introduction to informal and formal evaluation instruments in reading; basic concepts in measurement and evaluation; techniques of test development, evaluation, and interpretation. Applies reading assessment instruments to reading programs. *Prereq.:* Admission to M.A. Program in Reading.

TED-READ-413 Materials for Reading, 3 cr. Provides students with opportunities to develop and analyze significant principles involved in the selection and evaluation of commercial reading materials, including traditional and non-traditional reading programs, supplementary specific skills materials, tradebooks, and content area materials. Emphasis is placed on criteria for selection and use of materials for effective reading instruction with normal and handicapped learners. *Prereq.:* Admission to M.A. Program in Reading or consent of instructor.

TED-READ-414 Reading and Writing Processes, 3 cr. Focuses on the insights and instructional implications of recent research in the relationships between reading and writing. Examines various aspects of emergent literacy and the developmental stages of reading and writing. Strategies to foster individual growth in these areas and materials for planning, organizing and managing a reading/writing curriculum are treated. *Prereq.:* TED-READ-311 or equivalent.

TED-READ-415 Reading and Writing in the Content Area, 3 cr. Explores the development of classroom strategies to use writing in mastering content area subjects. Treats the integration of reading and writing in content area subject classes. *Prereq.:* TED-READ-311 or equivalent.

TED-READ-416: Primary Reading Instruction, 3 cr. Designed to help teachers develop an understanding of reading acquisition and early literacy. To develop an awareness of the developmental aspects of language development and its relationship to reading. Explores the interactive nature of language and its instructional implications. *Prereq.:* Admission to the M. A. Program in Reading.

TED-READ-417: Reading Instruction in Intermediate and Upper Grades, 3 cr. Provides graduate students opportunities to analyze and synthesize information about reading comprehension, develop an understanding of the development of reading comprehension instruction, and develop instructional strategies which promote reading comprehension in classroom settings. *Prereq.:* Admission to the M. A. Program in Reading

TED-READ-420 Reading and the Linguistically and Culturally Diverse Learner, 3 cr. An examination of the theory and research on the effects of language and cultural diversity on reading and comprehension in English with an emphasis on the implications for instruction and the practices employed to reduce mismatch between existing curricula and the needs of the linguistically and culturally diverse learner. *Prereq.:* TED-READ-311 or equivalent.

TED-READ-425 Literature-Based Reading Programs for the Elementary Classroom, 3 cr. Provides students with increased knowledge of ways to use literature as the foundation for elementary reading programs. Students will learn to develop, implement, and assess literature-based reading programs. They will also extend their own knowledge of children's literature. *Prereq:* Admission to M.A. Program in Reading or M.A.T./M.S.I. in Language Arts.

TED-READ-430 Computers and Reading, 3 cr. Provides students with the opportunity to do in-depth analysis of the utilization of computers in classrooms with special reference to reading instruction. The main topics included are software availability, selection, evaluation and usage for reading comprehension, word recognition, assessment, vocabulary, and word processing. Computer laboratory set-up and integrating video technology are also examined. Observations of school and business computer laboratories are included. *Prereq.:* graduate standing.

TED-READ-440 Reading for Middle School Professionals, 3 cr. This class is intended to give graduate students an understanding of the philosophy, structure, content areas, administrative structure and students in a middle school setting, and addresses the issues, research and instructional methods associated with increasing reading and writing proficiency for middle school students.

PROGRAM in SECONDARY EDUCATION

The professional education sequence in secondary education leads to entitlement in eight secondary certification programs in the following subject areas:

- Art
- Biology
- English
- History
- Mathematics
- Music (K-12 Certification)
- Physical Education
- Spanish

Please note that the Secondary Education Sequence alone does not constitute a major at Northeastern. Students seeking secondary teacher certification declare a major in an academic subject area. The secondary education program qualifies as “an area of study in addition to the major” and fulfills graduation requirements.

Each certification program involves three types of requirements: (a) requirements for an academic major; (b) specific general education requirements; and (c) professional secondary education requirements.

Upon completion of these requirements, students are expected to demonstrate: 1) a depth of knowledge in their chosen academic discipline; 2) a knowledge of the principles of human growth and development and of learning; 3) a knowledge of students with varying racial, cultural, and socioeconomic backgrounds; 4) a knowledge of the wide range of abilities and special needs of students; and 5) the ability to apply their knowledge and skills as they develop effective learning experiences for students during the methods and the clinical components of the professional education sequence.

Requirements for an Academic Major

Students seeking the Illinois Standard High School Certificate must fulfill all requirements for their academic major. For specific information about major requirements, please refer to the catalog entry for the content area.

To be certified in some academic areas, students are required to make prescribed choices among given electives in the academic major and/or they are required to complete additional courses in their academic area. These prescribed choices and/or additional required courses are specified below for each academic major.

Pre-majors

Student may register for EDUC-EDFN-305 and 306. Pre-majors waiting to begin Level I should complete coursework needed to satisfy NEIU general education requirements to register for coursework within their major area of concentration. See COE section for requirements to declare major and admission to COE.

Art

The Major in Art for the Bachelor of Arts Degree meets the requirements for secondary teacher certification. To fulfill requirements for certification, students must select the emphasis in Studio Art.

Biology

The Major in Biology for the Bachelor of Science Degree meets the requirements for secondary teacher certification with the following stipulations. Students seeking certification to teach biology in secondary schools are required to complete 8 semester hours in botany including 5 semester hours in laboratory work and 8 semester hours in zoology including 5 semester hours in laboratory work. Students seeking certification to teach biology in secondary schools may elect to complete the optional Environmental Emphasis if they complete the above specified requirements in botany, zoology, and laboratory work.

English

The Major in English (Secondary Education) for the Bachelor of Arts Degree meets the requirements for secondary teacher certification.

History

The Major in History for the Bachelor of Arts Degree meets the requirements for secondary teacher certification with the following stipulations. Students seeking certification to teach United States History in secondary schools are required to complete 8 semester hours in United States History. Students seeking Secondary Education-History certification must take three semester hours in Economics as part of their College of Education General Education course work.

Mathematics

The Major in Mathematics for the Bachelor of Arts Degree meets the requirements for secondary teacher certification.

Music

The Major in Music for the Bachelor of Arts Degree including both Emphasis Va: Secondary Education: Vocal Music and Emphasis Vb: Secondary Education: Instrumental Music meet the requirements for K-12 teacher certification. See Music Department, College of Arts and Sciences. Music majors take TED-ELED-311 instead of TED-SCED-301.

Physical Education

Students seeking certification to teach Physical Education in secondary schools should refer to the Department of Health, Physical Education, Recreation and Athletics section of this catalog.

Spanish

The Major in Spanish for the Bachelor of Arts Degree meets the requirements for secondary teacher certification.

Admission and Retention Requirements

Level I

Requirements for Program Admission and to SCED-301 Methods of Teaching on the Secondary Level:

- Declaration of Academic Major and secondary education major/area
- Completion of a minimum 21 semester credit hours in major
- Completion of EDFN-305 and 306 with a 'C' or better
- No incompletes in EDFN courses
- Completion of READ-301 or congruent registration in READ-301
- Completed admission to the College of Education (including ICTS Basic Skills Examination)
- Concurrent Registration in EDFN-307

Level II

Requirements for admission to SCED-303 and 304 (or MUS-393L/FL300):

- Completion of required number of semester hours in major (varies with major). No more than 9 semester credit hours remaining in the major
- Completion of TED-SCED with a 'C' or better*
- Cumulative grade point average of 2.5 or better
- Concurrent registration in READ-301 if not taken in Level I
- Concurrent registration in EDFN-307

Level III

Requirements for admission into SCED-305 Student Teaching:

- Complete SCED-303 (Methods) (with a 'C' or better), and 304 (Clinical) with a 'B' or better or MUS-393L (Clinical: Music) or FL-300 (Clinical: Foreign Languages)
- Completion of EDFN-307 with a 'C' or better
- Completion of READ-301 in Level I or Level II
- Take and Pass ISBE Subject Area Examination (required by Fall 2003)
- Completion of required number of credit hours in major (varies with major). No more than six semester hours remaining in the major.
- Overall grade point of 2.75 or better in professional education sequence courses
- Cumulative grade point average of 2.5 or better

Level IV

Required for Program Completion and State Entitlement:

- Completion of SCED-305 Student Teaching with a 'B' or better
- Completion of all requirements in level I-III
- Completion of academic major with no grades less than 'C'
- Completion of NEIU General Education Requirements
- Completion of required courses for state certification
- Passed State of Illinois Subject Area ** and ISBE Basic Skills examinations
- Completion of a minimum of 120 semester credit hours

* Except in cases of special concerns (such as speech difficulties) in which case the instructor should refer the student to TED Standards Committee for review, prior to granting admission approval.

Additional Requirements for Certification

In addition to the successful completion of the Academic major, students must complete the **general education requirements** for the College of Education. **Transfer students and second B.A. candidates should consult their advisors concerning general education requirements.**

Requirements which are a part of Northeastern's 39-hour general education program and are on the Limited List:

Fine Arts & Humanities	15 cr.
English	3 cr.
To be selected	12 cr.

Behavioral and Social Science	12 cr.
HIST-214 United States History 1607-1877 or	
HIST-215 United States History 1877-present	3 cr.
PSCI-AMER-216 American National Government ..	3 cr.
Non-Western or Third-World Cultures course	
HIST-111C or 107 or 111D or ANTH-212	3 cr.
Elective	3 cr.

Biological & Physical Sciences 12 cr.
 Coursework must include Biological & Physical Science (include one lab course)

Total 39 cr.

General Education Requirements which are **not** on the Limited List:

1. Written communication 6 cr.
 (English 101 and 102)
 (must receive a grade of "C" or higher)
2. Oral communication 3 cr.
 (Speech 101 or 202)
 (must receive a grade of "C" or higher)
3. Mathematics (MATH-102 or higher) 3 cr.
 (Must receive a grade of "C" or better)
4. HPER-HLED 107 or approved Physical Education Activity Course 2 cr.

Illinois Senate Bill 195 requires that all students attending state universities must pass the United States and Illinois constitutions exam. Students may satisfy this requirement by passing the examination offered by the university or by successfully completing an appropriate course as listed under university graduation requirements.

All secondary education students who have completed their certification programs after May, 1992 must meet these additional requirements. In addition to completing the certification program requirements, they must pass the Illinois Certification Test Basic Skills Test and appropriate Subject Matter Test.

All early childhood, elementary, secondary, and special education students who have been admitted to the College of Education prior to September 1, 1990 but who will complete their certification programs after May, 1992 must meet additional requirements in American History, American Government, and non-Western/Third World Cultures.

Professional Education Requirements

The Illinois State Board of Education requires all students enrolled in teacher certification programs to complete 100 hours of clinical experience in a recognized elementary or secondary school prior to student teaching. The professional education requirements are as follows:

EDUC-EDFN-305 Philosophical and Historical Foundations of Public Education	3 cr.
EDUC-EDFN-306 Education and Individual Differences	3 cr.
This course includes ten clock hours of clinical experience in an appropriate school.	
EDUC-EDFN-307 Psychology of Instruction and Learning	3 cr.
This course includes 10 clock hours of clinical experience in an appropriate school.	
TED-READ-301 Teaching Reading in Junior and Senior High School	3 cr.
TED-SCED-301 Methods of Teaching on the Secondary Level	3 cr.
This course requires 20 clock hours of clinical experience in an appropriate secondary school. Apply to CEST office six months prior to course request.	
*TED-SCED-303 Methods of Teaching in the Secondary School	3 cr.
TED-SCED-304 Clinical Experiences in the Secondary School	1 cr.
TED-SCED-305 Secondary Student Teaching and Seminar	9 cr.
Total	28 cr.

*Music majors must complete 4 credit hours of SCED-303. (SCED-303I and SCED-303V)

NOTE: All secondary education students must be admitted to the College of Education before they can register for Clinical Experience (SCED-304, or MUS-393, or FL-300) and Student Teaching. To be entitled for certification a student must earn a grade of "B" or better in Student Teaching.

No required professional education courses may be taken more than twice to achieve an acceptable grade.

NOTE: All students must consult with their advisors in their academic major for advising and the Secondary Education Advisor for the Secondary Education sequence.

COURSE OFFERINGS

TED-SCED-301 Methods of Teaching on the Secondary Level, 3 cr. Selection, organization, and use of materials and methods that are common to all subject areas in the secondary school. Discussion of the unit, the lesson plan, discipline, class discussion, and other elements of methodology necessary for effective teaching. Emphasis on planning and methodology to meet individual student needs including needs of exceptional students. *Prereq.:* EDUC-EDFN-305, EDUC-EDFN-306, and 21 hours in the academic major.

TED-SCED-315 Teaching Writing in Junior and Senior High School, 3 cr. This course covers the teaching of writing in the intermediate and upper grades. Mini-lesson design and placement, methods and strategies for teaching sentence completeness, for teaching sentence structure, and for punctuation and capitalization are covered. In addition, students will learn methodology that will be useful and effective with writing genres (e.g. expository, descriptive), and the research paper. The assessment of writing (e.g. rubrics, conferenceing, portfolios) approaches for language-and-dialect different learners, and uses of technology in writing instruction. Finally, program issues are approached: the development of writer's workshop, and writing across the curriculum.

TED-SCED-361 Workshop in Secondary Education I, 1 cr. Course is designed for providing in-service opportunities for secondary teachers in the fields of English, mathematics, history, and social studies. *Prereq.:* valid teaching certificate.

TED-SCED-363 Workshop in Secondary Education III, 3 cr. Course is designed for providing in-service opportunities for secondary teachers in the field of English, mathematics, history, and social studies. *Prereq.:* valid teaching certificate.

TED-SCED-401E New Directions in Teaching English in Middle and Secondary Schools without Clinical Experience, 3 cr. Designed for the in-service teacher of middle-secondary school English; study and discussion of new perspectives for the school English program growing out of the reform efforts of the past decade. *Prereq.:* graduate standing, teaching certificate, or teachers with degrees who have at least one year of teaching experience.

TED-SCED-401H New Directions in Teaching History in the Junior and Senior High School, 3 cr. In-depth treatment of selected new and experimental methodologies of teaching history in the secondary school. Also included are materials from other social science disciplines as they relate to the teaching of history. Since new trends are constantly finding their way in the teaching of secondary history, the course content will also correspondingly change. *Prereq.:* graduate standing, teaching certificate, or teachers with degrees who have at least one year of teaching experience.

TED-SCED 401L New Directions in Teaching English in Middle and Secondary Schools with Clinical Experience, 3 cr. This course is designed for preservice teachers of middle school-secondary English-Language Arts. Study and discussion will focus on an exploration of recent trends and innovations in teaching the composition process and its relationship to reading, thinking, speaking, and listening. Participants will review and critique recent research and curricula. Students will complete a minimum of 50 clock hours of field experience in a middle school-secondary school setting. Emphasis of the clinical experience will be on assuming a range of classroom responsibilities. *Prereq.:* Acceptance in the M.A.T.: Language Arts program. ELAD-EDFN 416, ELAD-LEAD 405, ELAD-LEAD 406 or equivalent. Permission from Program Advisor and Clinical Experience Coordinator required.

TED-SCED-401M New Directions in Teaching Mathematics in the Junior and Senior High School, 3 cr. Designed to focus on teaching strategies for the development of mathematical concepts, principles, and skills that are suggested in the current literature. The applicability of these strategies to the class participant's particular school and classroom will be emphasized. Participants will also select areas of specific interest for personal study, e.g., teaching mathematics to the exceptional student. Prereq.: graduate standing, teaching certificate, or teachers with degrees who have at least one year of teaching experience.

TED-SCED-407A: Teaching Multiethnic Literature in Middle School-Secondary Schools with Clinical Experience, 3 cr. This course is designed for middle school and secondary school preservice teachers. The course will emphasize curricular design, teaching techniques, and the assessment of instructional resources for embedding multicultural literature in the English/Language Arts curriculum. Students will complete a minimum of 50-clock hours of field experiences at a junior high/senior high school. Prereq.: Acceptance into the M.A.T.: Language Arts-Secondary Program, ELAD-LEAD 405 and 406 or equivalent. Permission from Program Advisor and Clinical Experience Coordinator required.

TED-SCED-407B Teaching Multi-Ethnic Literature in Middle School-Secondary Schools without Clinical Experience, 3 cr. Designed for middle school and secondary school teachers who have limited knowledge and experience in teaching ethnic minority literature. The course will emphasize curriculum design, teaching techniques, and the assessment of appropriate instructional resources. The ultimate purpose of the course is to enable teachers to integrate effectively the multi-ethnic literary experience into traditional literature programs. Prereq.: graduate standing and a teaching certificate, or teachers with degrees who have at least one year of teaching experience.

TED-SCED-408 The Nature of Mathematical Abilities in School Children, 3 cr. An exploration of mathematical learning by all students (K-12), with emphasis on the processes used by exceptional students. The differences that are shown by these students when doing mathematics will be examined, and with this information the class will focus on teaching practices that are most appropriate to these students' needs.

Prereq.: graduate standing and teacher certification or consent of instructor.

TED-SCED-409 Teaching Mathematical Problem Solving in the Secondary Schools, 3 cr. An examination of the logical understanding of mathematical problem solving with emphasis on improving competence in teaching problem solving to secondary students; includes theoretical study, preparation of materials, and observations and demonstrations in the teaching of problem solving. Prereq.: admission to master of science program in mathematics, secondary education, or a teaching certificate in mathematics.

TED-SCED-410 Computers in the Teaching of Secondary School Mathematics, 3 cr. A computer application course, using BASIC, designed for teachers of secondary school mathematics. Examples from algebra, geometry, trigonometry, number theory, and probability and statistics will serve as the

basis for programming activities. Strategies for effectively using the computer and computer software in the teaching of mathematics will be discussed. Prereq.: graduate standing; a course in BASIC programming or consent of instructor.

TED-SCED-421L Research in Classroom Teaching of Language Arts, 3 cr. Designed to acquaint the student with research in contemporary trends in teaching the language arts, including reading; critical appraisal and discussion of classical and current studies in language arts will provide specific suggestions useful in classroom practice; an overview of the entire area, as well as opportunity for individual study in-depth of a specific area related to the student's need and interest; in-service teachers may become involved in action research. Prereq.: master's degree candidacy, teaching certificate, or teachers with degrees who have at least one year of teaching experience.

TED-SCED-421M Research in Classroom Teaching of Mathematics, 3 cr. Designed to acquaint the student with the general principles of research in the teaching of mathematics, analytical examination of the various research studies with special emphasis on the new mathematics. Prereq.: master's degree candidacy, teaching certificate, or teachers with degrees who have at least one year of teaching experience.

TED-SCED-429 Internship in Secondary Education, 6 cr. Internship will provide practical field experience under joint supervision of University and public school personnel. Students will refine and extend their theoretical understanding by applying it to instructional settings. Principles, attitudes, and techniques related to successful teaching careers will be explored. This course is the culminating experience for graduate students within the secondary education MAT sequence. Prereq.: Completion of all coursework except TED-ELED-430 and permission from Office of Student Teaching. Passing score on ICTS Subject Area Examination.

Art

TED-SCED-303A Contemporary Art Education in the Secondary School, 3 cr. Designed to develop inquiry and understanding of many problems of communicating or teaching art in the secondary school. Emphasis on planning and methodology to meet individual student needs, including needs of exceptional students. To be taken before student teaching in the Spring semester. Prereq.: 45 hours in art. Concurrent course.: SCED-304.

TED-SCED-304A Clinical Experiences in the Secondary School: Art, 1 cr. A supervised clinical experience designed with less emphasis on observational experiences and more on direct involvement in the instructional process. Requires experience with a broad range of students, including exceptional students. To be taken with the academic methods course, SCED 303A.

TED-SCED-305A Secondary Student Teaching and Seminar in Art, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in one or more levels of secondary school art. Supervised by secondary school personnel and a university supervisor, who conducts a weekly two-hour

seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. To be taken during the Spring semester. *Prereq.:* TED-SCED-301, TED-SCED-303A, TED-SCED-304A, and approval of art department. Passing score on ICTS Subect Area Examination.

English

TED-SCED-303E Methods of Teaching English in the Secondary School, 3 cr. Introduction to the methods, techniques and materials for teaching English in secondary schools. Emphasis on planning and methodology to meet individual student needs, including needs of exceptional students. To be taken with TED-SCED-304E. *Prereq.:* TED-SCED-301 and 42 hours in the academic major.

TED-SCED-304E Clinical Experiences in the Secondary School: English, 1 cr. A supervised clinical experience designed with less emphasis on observational experiences and more on direct involvement in the instructional process. Requires experience with a broad range of students, including exceptional students. To be taken with the academic methods course, SCED 303E.

TED-SCED-305E Secondary Student Teaching and Seminar in English, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in one or more levels of secondary school English. Supervised by secondary school personnel and a university supervisor who also conducts a weekly two-hour seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. *Prereq.:* TED-SCED-303E, TED-SCED-304E and 45 hours in academic major. Passing score on ICTS Subect Area Examination.

Foreign Language

TED-SCED-303F Teaching Modern Foreign Languages in the Secondary School, 3 cr. Introduction to the methods, techniques and materials for teaching foreign languages in the secondary school. Emphasis is on mastery of selected skills on a performance basis and meeting individual student needs. *Prereq.:* FL-SPAN-319 and FL-SPAN-320, 24 hours in academic major and consent of instructor, *Concurrent course.:* FL-300.

TED-SCED-305J Secondary Student Teaching and Seminar in Spanish, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in secondary school foreign language. Supervised by secondary school personnel and a university supervisor, who conducts a weekly two-hour seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. *Prereq.:* TED-SCED-301, FL-300, TED-SCED-303F and approval of department and/or second level proficiency test. Passing score on ICTS Subect Area Examination.

History

TED-SCED-303H Methods of Teaching History in the Secondary School, 3 cr. Demonstration of specific organizational patterns and teaching methods in history, teaching for critical thinking, and trends in the teaching of history. Emphasis on planning and methodology to meet individual student needs, including needs of exceptional students. To be taken with TED-SCED-304H. *Prereq.:* TED-SCED-301 and 27 hours in academic major.

TED-SCED-304H Clinical Experiences in the Secondary School: History, 1 cr. A supervised clinical experience designed with less emphasis on observational experiences and more on direct involvement in the instructional process. Requires experience with a broad range of students, including exceptional students. To be taken with the academic methods course, SCED 303H.

TED-SCED-305H Secondary Student Teaching and Seminar in History, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in one or more levels of secondary school history. Supervised by secondary school personnel and a university supervisor who also conducts a weekly two-hour seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. *Prereq.:* 30 hours in academic major, TED-SCED-303H, and TED-SCED-304H. Passing score on ICTS Subect Area Examination.

Mathematics

TED-SCED-303M Methods of Teaching Mathematics in the Secondary School, 3 cr. Strategies for teaching concepts, principles, and mathematical skills. Emphasis on problem solving, proof, and planning and methodology to meet individual student needs, including needs of exceptional students. To be taken with TED-SCED-304M. *Prereq.:* TED-SCED-301 and 33 hours in mathematics.

TED-SCED-304M Clinical Experiences in the Secondary School: Mathematics, 1 cr. A supervised clinical experience designed with less emphasis on observational experiences and more on direct involvement in the instructional process. Requires experience with a broad range of students, including exceptional students. To be taken with the academic methods course, SCED 303M.

TED-SCED-305M Secondary Student Teaching and Seminar in Mathematics, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in one or more levels of secondary school mathematics. Supervised by secondary school personnel and a university supervisor who also conducts a weekly two-hour seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. *Prereq.:* TED-SCED-301, TED-SCED-303M, TED-SCED-304M, and 36 hours in mathematics. Passing score on ICTS Subect Area Examination.

Music

TED-SCED-303I Methods and Techniques of Teaching Music in the Secondary Schools: Instrumental, 2 cr. Methods and materials utilized in teaching and organizing music classes and performing groups in the secondary schools; major emphasis upon general music classes, music rehearsal, and performance problems in vocal music. *Prereq.:* TED-ELED-311 and consent of advisor, *Concurrent course.:* MUS 393L.

TED-SCED-303V Methods and Techniques of Teaching Music in the Secondary Schools: Vocal, 2 cr. Methods and materials utilized in teaching and organizing music classes and performing groups in the secondary schools; major emphasis upon general music classes, music rehearsal, and performance problems in instrumental music. *Prereq.:* TED-ELED-311 and consent of advisor, *Concurrent course.:* MUS 393L.

TED-SCED-305N K-12 Student Teaching and Seminar in Music, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in K-12 school music. Supervised by K-12 school personnel and a university supervisor, who conducts a weekly two-hour seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. *Prereq.:* TED-ELED-311, TED-SCED-303I, TED-SCED-303V, MUS-393L, and department approval. Passing score on ICTS Subject Area Examination.

Physical Education

TED-SCED-305P Secondary Student Teaching and Seminar in Physical Education, 9 cr. Participation in directing learning experiences in secondary physical education at several levels under the supervision of one or more regularly assigned secondary teachers; observation of experienced teachers; familiarization with the daily program of the secondary school; weekly two-hour seminar and critique. Requires experience with a broad range of students, including exceptional students. (full-day, Spring term) *Prereq.:* approval of department chairperson, senior standing, TED-SCED-301, and HPER-PEMA-344. Passing score on ICTS Subject Area Examination.

Science

TED-SCED-303R Materials and Methods for Teaching High School Science, 4 cr. Interpretation of the content and structure of those areas of natural sciences generally included in secondary school curricula; recent developments in curriculum organization and teaching materials; methods of teaching in the classroom and laboratory, including team teaching and other individualized guided study programs. Emphasis on planning and methodology to meet individual student needs, including needs of exceptional students. Offered during Fall term only. *Prereq.:* one term of chemistry, one of physics, one of biology, and TED-SCED-301.

TED-SCED-304B Clinical Experiences in the Secondary School: Biology, 1 cr. A supervised clinical experience designed with less emphasis on observational experiences and more on direct involvement in the instructional process. Requires experience with a broad range of students, including exceptional students. To be taken with the academic methods course, SCED 303R.

TED-SCED-305B Secondary Student Teaching and Seminar in Biology, 9 cr. Sixteen weeks of full-day student teaching providing practical teaching experience in one or more levels of secondary school biology. Supervised by secondary school personnel and a university supervisor, who conducts a weekly two-hour seminar associated with student teaching. Requires experience with a broad range of students, including exceptional students. *Prereq.:* approval of department, senior standing, TED-SCED-301, TED-SCED-303R, and TED-SCED-304B. Passing score on ICTS Subject Area Examination.

SPECIAL CERTIFICATION PROGRAMS

Teacher Certification Program for Post-Baccalaureate Students

This program is designed for returning students with degrees in fields other than education who wish to obtain teaching certification in the following areas:

Early Childhood Education - Type 04 Certificate, Birth- Grade 3

Elementary Education - Type 03 Certificate, Grades K-9

Secondary Education - Type 09 Certificate, Grades 6-12

Music Education, Standard Special Certificate, Grades K-12

Coursework consists of blocks of undergraduate courses and does not lead to a master's degree. (Exception—There is an option for combining certification with the M.S. in Mathematics.)

Admission Requirements:

- Bachelor's degree from an accredited college or university.
- Minimum undergraduate GPA of 2.5 (4.0 scale). Students with an advanced degree from an accredited university are excused from this requirement. Students who do not meet the minimum GPA requirements may appeal for conditional admission.
- Graduate Records Examination score.
- Passing score on Illinois Basic Skills Examination.

Bilingual/Bicultural Approval: Elementary education program students have the option of taking coursework leading to an approval in Bilingual/bicultural Education. Contact: Dr. Jocquin Villegas, BLBC Coordinator.

NOTE: Returning students interested in Elementary Education certification with Bilingual approval may instead pursue a Bilingual/bicultural Education Master of Arts in Teaching. See the Bilingual/bicultural program section of the Teacher Education Department in this catalog for admission and program requirements.

Middle School Endorsement: Students who wish to receive Middle School Endorsement should contact their program area advisor.

State teacher examinations: Program students must also pass the Illinois State Board of Education's Basic Skills Test and subject area test (e.g. Elementary Education, Biology). Students at program completion must also take the Assessment of Professional Teaching Test. Information on these tests is available from the TCP Advisor in CLS-2063.

Additional Information

This section contains an overview of the certification programs. The Illinois State Board of Education (ISBE) has established general education requirements for teaching certification. Most returning students will have already completed much of this coursework in their undergraduate studies; however, some coursework may still be needed. During the application process students' transcripts will be reviewed for evidence that state requirements have been met.

Early Childhood Education Certification

Requirements:

Professional Sequence 43 cr.

Area of Concentration 18 cr.

Approved areas are:

Anthropology	History
Art (studio)	Linguistics
Asian Studies	Mathematics
Biology	Music
Chemistry	Philosophy
Dance	Physics
Earth Science	Political Science
Economics	Psychology
English	Sociology
Foreign Language	Theater (transfer only)
Geography (except environmental studies)	

General Education Requirements of the Illinois State Board of Education for Early Childhood Certification: A total of 60 credit hours of general education coursework is required. This includes six hours of written communication, three hours of oral communication, six hours in mathematics, 12 hours of biological and physical science (including one lab course), a course in American government, a course in U.S. History, a non-Western/Third World course, and a course in health/physical development. The program also requires a course in art and in music.

Returning students who seek Early Childhood 04 Certification may also consider applying to the Special Education/Early Childhood Masters' Program with the 04 Certification Option. See the Special Education section of this catalog and/or contact Dr. Elizabeth Landerholm, ext. 5383.

Elementary Education Certification

Requirements:

Professional Sequence 39 cr.

Area of Concentration 18 cr.

Approved areas are:

Anthropology	History
Art (studio)	Linguistics
Asian Studies	Linguistics/ESL
Biology	Mathematics
Chemistry	Music
Earth Science	Philosophy
Economics	Physics
English	Political Science
Foreign Language	Psychology
Geography (except environmental studies)	Sociology
	Theater (transfer only)

General Education Requirements of the Illinois State Board of Education for Elementary Education: A total of 57 credit hours of general education coursework is required. This includes six hours of written communication, three hours of oral communication, six hours of mathematics, 12 hours of biological and physical sciences (including one lab), courses in English, U.S. History, American government, a non-Western/Third World course, and coursework in health/physical development. The program also requires a course in art and in music.

NOTE: Returning students interested in Elementary Education certification with a concentration in Language Arts may instead pursue a Master of Arts in Teaching: Language Arts-Elementary. See the Language Arts program section in the Teacher Education Department in this catalog for admission and program requirements.

Music K-12 Certification

For information on the Music K-12 certification program, contact the Music Department.

Secondary Education Certification

Requirements:

Professional Sequence 28 cr.

Major area: Must meet Northeastern's major in one of the following academic areas:

Art	Mathematics
Biology	Music
English	Physical Education
History	Spanish

NOTE: Returning students interested in Secondary English certification may instead pursue a Master of Arts in Teaching: Language Arts-Secondary. See the Language Arts Program section in the Teacher Education Department in this catalog for admission and program requirements.

For Secondary Education a total of 50 credit hours of general education coursework is required. This includes six hours of written communication, three hours of oral communication, three hours of mathematics, nine hours of biological and physical science courses (including one lab), an English course, courses in U.S. history and American government, a non-Western/Third World course, and coursework in health/physical development.

Note: For descriptions of the respective professional sequences and major/minor coursework and prerequisites, please see pertinent sections of this catalog.

Appeal Process for TCP Program Admission

(Teacher Certification Program for Post-Baccalaureate Students) [formerly HB2207 Program]

Program applicants whose undergraduate transcripts indicate a cumulative grade point average below 2.5 on a 4.0 scale may appeal for conditional admission by submitting a letter of appeal and their scores from the Graduate Record Exam, which has been administered within the past five years. Students must have their GRE scores sent directly to the Teacher Certification Program Office from the testing service.

The Admissions, Retentions and Appeals Committee will review appeals and may invite applicants under consideration to an interview. Decisions regarding conditional admission will be based upon applicant's undergraduate GPA, GRE scores, rationale for admission, and student interview.

Students may not initiate an appeal and submit GRE scores (obtained through reexamination) more than twice.

Notification of conditional admission will be accompanied by the advisor's and/or A.R.A. Committee's identification of three 300/400 level courses, each of which must be completed with a grade of "B" or better. When the designated courses have been completed, it is the student's responsibility to submit to the Alternative Certification Office an up-to-date grade transcript verifying that this requirement has been met. Upon verification, the student will be removed from probation and directed to apply for admission to the College of Education.

Middle School Endorsement

The Middle School Endorsement is required by the State of Illinois for all teachers of children in grades 5-8 where fifty percent or more of the teaching assignment is to a position comprised of a single subject area of instruction.

Undergraduate elementary and secondary students will be granted this endorsement if they complete all their program requirements and also complete ELAD-EDFN-313.

HPERA students should consult their advisor or the Middle School Coordinator.

Students with baccalaureate degrees and initial certification as teachers in Illinois will be eligible for the middle school endorsement by taking the following courses:

ELAD-EDFN-418A Seminar in Development & Learning
Middle School: An Overview

AND

COUN-468L Seminar in Counseling: Current Topics
in School Counseling - Middle School

Northeastern has also prepared a course sequence for middle school teachers which is intended to be taken by groups of teachers at a given school in order to effect total school change. Students with questions on the Middle School Endorsement should consult the Middle School Coordinator in the Department of Educational Leadership and Development.

FACULTY and ADMINISTRATION

ADAM, NAJMA M., Ph.D., University of Illinois at Chicago, Assistant Professor, Social Work

ADAMCZUK, BARBARA, M.A., Saint Xavier University (Chicago), Assistant Director of Placement

ADEODU, RACHEL A., Ph.D., University of Alberta, Assistant Professor, Teacher Education

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AFIFI, RASOUL, Ph.D., North Texas State University, Associate Professor, Management

AKBARI, HAMID, Ph.D., Ohio State University, Associate Professor, Management

AL-BAZI, SARGON JOHN, Ph.D., University of Manitoba, Professor, Chemistry

ALKAFAJI, YASS, D.B.A., C.P.A., Mississippi State University, Associate Professor, Accounting and International/Intercultural Studies

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AMBARDAR, ANITA KAK, Ph.D., Purdue University, Professor, Reading

ANDERSON, GREGORY W., Ph.D., University of California, Associate Professor, Physics

ANG, HELEN C., Ph.D., Southwestern Baptist Theological Seminary, Executive Director of the Office of University Budgets

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BARNETT, TIMOTHY, Ph.D., Ohio State University, Associate Professor, English

BARRETT, HARVEY B., Ed.D., Virginia Polytechnic Institute and State University, Associate Professor, Teacher Education

BARTELS, KAREN S., Ph.D., Massachusetts Institute of Technology, Associate Professor, Earth Science and Women's Studies

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- CAPEHEART, LORETTA, Ph.D., Texas Woman's University, Assistant Professor, Criminal Justice
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- HANSEN, EDMUND J., Ph.D., Indiana University (Bloomington), Director of the Center for Teaching and Learning
- HAO, YI, Ph.D., State University of New York at Buffalo, Assistant Professor, Teacher Education
- HAQUE, MOHAMMED, Ph.D., Illinois Institute of Technology, Associate Professor, Computer Science
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- HARPER, JACQUELINE, M.A., Michigan State University, Director of Women's Services and Re-Entry Programs, and Women's Studies Faculty
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- HOFER, H. DURWARD, Ph.D., Northwestern University, Professor, Management
- HOLLAND, NICOLE, Ph.D., The Graduate School and University of N.Y., Assistant Professor, Educational Leadership and Development
- HOLLIS-SAWYER, LISA, Ph.D., University of Akron, Assistant Professor, Psychology and Women's Studies
- HOWENSTINE, ERICK J., Ph.D., University of Washington (Seattle), Professor, Geography and Environmental Studies and International/Intercultural Studies
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Fall Semester 2003

August	18-21	Monday - Thursday	Fall Semester Begins Late Registration
August	23	Saturday	Saturday Classes Begin
August	25	Monday	Classes Begin
September	1	Monday	Labor Day Holiday
November	27	Thursday	Thanksgiving Holiday
	28	Friday	
	29	Saturday	
December	6	Saturday	Final Exams for Saturday Classes
December	8	Monday	Last Day of Classes
December	9	Tuesday	Final Examinations
	10	Wednesday	
	11	Thursday	
December	14	Sunday	Commencement
December	15	Monday	Fall Semester Ends <i>Grades Due 12:00 p.m.</i>
December 16 - January 1			Recess

Spring Semester 2004

January	5-8	Monday - Thursday	Spring Semester Begins Late Registration
January	12	Monday	Classes Begin
January	19	Monday	Martin Luther King, Jr.'s Birthday Holiday
February	12	Thursday	Lincoln's Birthday Holiday
March	22-27		Spring Recess
April	30	Friday	Last Day of Classes
May	1	Saturday	Final Exams for Saturday Classes
May	3	Monday	Final Examinations
	4	Tuesday	
	5	Wednesday	
May	10	Monday	Spring Semester Ends <i>Grades Due 12:00 p.m.</i>
May	11-17		Recess
May	16	Sunday	Commencement

Summer Session IA 2004 (6-1/2 weeks)

May	18-19	Tuesday Wednesday	Summer Session IA Begins Late Registration*
May	21	Friday	Classes Begin
May	31	Monday	Memorial Day Holiday
June	29	Tuesday	Last Day of Classes
June	30	Wednesday	Final Examinations
July	1	Thursday	
July	7	Wednesday	Summer Session IA Ends <i>Grades Due 3:00 p.m.</i>

Summer Session IB 2004 (13 weeks)

May	18-19	Tuesday Wednesday	Summer Session IB Begins Late Registration*
May	21	Friday	Classes Begin
May	31	Monday	Memorial Day Holiday
July	5	Monday	Independence Day Holiday
August	7	Saturday	Final Exams for Saturday Classes
August	9	Monday	Last Day of Classes
August	10	Tuesday	Final Examinations
	11	Wednesday	
	12	Thursday	
	16	Monday	
August	18	Wednesday	Summer Session IB Ends <i>Grades Due 3:00 p.m.</i>

Summer Session II 2004 (6-1/2 weeks)

June	30	Wednesday	Summer Session II Begins
July	1	Thursday	Late Registration*
July	2	Friday	Classes Begin
July	5	Monday	Independence Day Holiday
August	10	Tuesday	Last Day of Classes
August	11	Wednesday	Final Examinations
	12	Thursday	
August	18	Wednesday	Summer Session II Ends <i>Grades Due 3:00 p.m.</i>
August	19-22		Recess

*All Registrations via TTRS

Fall Semester 2004

August	23-26	Monday - Thursday	Fall Semester Begins Late Registration
August	28	Saturday	Saturday Classes Begin
August	30	Monday	Classes Begin
September	6	Monday	Labor Day Holiday
November	25	Thursday	Thanksgiving Holiday
	26	Friday	
	27	Saturday	
December	11	Saturday	Final Exams for Saturday Classes
December	12	Sunday	Commencement
December	13	Monday	Last Day of Classes
December	14	Tuesday	Final Examinations
	15	Wednesday	
	16	Thursday	
December	20	Monday	Fall Semester Ends <i>Grades Due 12:00 p.m.</i>
December 21 - January 2			Recess

Spring Semester 2005

January	3-6	Monday- Thursday	Spring Semester Begins Late Registration
January	10	Monday	Classes Begin
January	17	Monday	Martin Luther King, Jr.'s Birthday Holiday
February	11	Friday	Lincoln's Birthday Holiday
March	21-26		Spring Recess
April	29	Friday	Last Day of Classes
April	30	Saturday	Final Exams for Saturday Classes
May	2	Monday	Final Examinations
	3	Tuesday	
	4	Wednesday	
May	9	Monday	Spring Semester Ends <i>Grades Due 12:00 p.m.</i>
May	10-16		Recess
May	15	Sunday	Commencement

Summer Session IA 2005 (6-1/2 weeks)

May	17	Tuesday	Summer Session IA Begins
	18	Wednesday	Late Registration*
May	20	Friday	Classes Begin
May	30	Monday	Memorial Day Holiday
June	28	Tuesday	Last Day of Classes
June	29	Wednesday	Final Examinations
June	30	Thursday	
July	5	Tuesday	Summer Session IA Ends <i>Grades Due 3:00 p.m.</i>

Summer Session IB 2005 (13 weeks)

May	17	Tuesday	Summer Session IB Begins
	18	Wednesday	Late Registration*
May	20	Friday	Classes Begin
May	30	Monday	Memorial Day Holiday
July	4	Monday	Independence Day Holiday
August	6	Saturday	Final Exams for Saturday Classes
August	8	Monday	Last Day of Classes
August	9	Tuesday	Final Examinations
	10	Wednesday	
	11	Thursday	
	15	Monday	
August	17	Wednesday	Summer Session IB Ends <i>Grades Due 3:00 p.m.</i>

Summer Session II 2005 (6-1/2 weeks)

June	29	Wednesday	Summer Session II Begins
	30	Thursday	Late Registration*
July	1	Friday	Classes Begin
July	4	Monday	Independence Day Holiday
August	9	Tuesday	Last Day of Classes
August	10	Wednesday	Final Examinations
	11	Thursday	
August	17	Wednesday	Summer Session II Ends <i>Grades Due 3:00 p.m.</i>
August	18-21	Recess	

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