
GUIDE TO MAJORS IN THE COLLEGE OF ARTS & SCIENCES

AFRICAN-AMERICAN STUDIES

African-American studies exposes students to the experiences of African-American people and others of African descent. The curriculum reflects an interdisciplinary approach, based on the fields outlined by The National Council of Black Studies: historical, social-behavioral, and cultural studies. International studies, public policy, and the impact of science and technology are integral parts of the program.

Students apply theoretical knowledge to real world problems and concerns. Students with training in African-American studies will have skills to meet the challenges posed by the diversity of racial, cultural, and ethnic groups, in the United States and abroad.

African-American studies graduates often attend professional schools and teach at the secondary or college level. Others work in museums, libraries, research centers, social service agencies, business, public service, and social welfare and law enforcement agencies.

CONCENTRATIONS OFFERED: historical studies
cultural studies
social-behavioral studies

DEGREES OFFERED: B.A.; B.S.

DEPARTMENT LOCATION: 132 Nightingale
PHONE: 373-3148

DEPARTMENT CHAIR: Kwamina Panford
e-mail: k.panford@neu.edu

HEAD ADVISOR AND ADVISOR FOR EXPERIENTIAL EDUCATION: Kwamina Panford

COOPERATIVE EDUCATION COORDINATOR: Lester Lee
Office: 377B Holmes Phone: 617-373-3407
e-mail: l.lee@neu.edu

TRANSFERRING TO THE MAJOR:
Same as college standards (pages 43-45). Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

same as college standards

AMERICAN SIGN LANGUAGE - ENGLISH INTERPRETING

The American Sign Language (ASL) - English Interpreting major offers extensive exposure to the theory and practice of intercultural communication between Deaf and hearing people through which students may prepare to become American Sign Language-English Interpreters.

The curriculum represents an integrated bilingual, bicultural orientation to the Deaf community and the field of interpreting, and provides a firm foundation in language, linguistics, culture, and interpreting. This foundation coupled with the liberal arts education, enables students to integrate their skills knowingly and creatively within the varied situations and diverse subject matter encountered in this profession. The program has three major areas of emphasis:

- the acquisition of ASL and an understanding of the Deaf community;
- the interpreting process;
- a liberal arts education

DEGREE OFFERED:	B.S.
PROGRAM LOCATION:	400 Meserve
PHONE:	617-373-3064 (voice); 617-373-3067 (TTY) 800-439-2370 TTY Relay Service (serving Massachusetts)
PROGRAM DIRECTOR, HEAD ADVISOR, AND ADVISOR FOR EXPERIENTIAL EDUCATION	Dennis Cokely e-mail: d.cokely@neu.edu
COOPERATIVE EDUCATION COORDINATOR:	Kathryn Malloy Office: 205 Forsyth Phone: 617-373-2435 e-mail: k.malloy@neu.edu

TRANSFERRING TO THE MAJOR:

Same as college standards (page 43-45). Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

- An average of *B* or better is required in the following six courses: ASL 1202, ASL 1301, ASL 1302, ASL 1505, ASL 1506, and ASL 1520
- A minimum cumulative grade average of 2.75 is required to remain in good standing in the major.
- Students who do not meet the above criteria may not be allowed to continue in the major.

ANTHROPOLOGY

Anthropology is the study of humanity in all its cultural diversity. The broad concerns of anthropology are with **culture** -- the meaning people create and share to make sense of their conditions of life. There are four sub-fields of anthropology: ethnology (cultural anthropology), biological anthropology (the relationship of social life and culture to our physical beings), archaeology (the study of past cultures), and linguistics (the study of language). The anthropologists at Northeastern University specialize in **cultural anthropology** and **social anthropology**--the relationship of culture to the institutions, interpersonal relations, and practices that make up their social structure.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	500 Holmes
PHONE:	617-373-2686
DEPARTMENT CHAIR: e-mail: falcon@neu.edu	Luis M. Falcon
HEAD ADVISOR AND ADVISOR FOR EXPERIENTIAL EDUCATION:	TBA e-mail: w.holton@neu.edu
COOPERATIVE EDUCATION COORDINATOR:	Melissa McDaniels Office: 579 Holmes phone: 617-373-4773 e-mail: m.mcdaniels@neu.edu
TRANSFERRING TO THE MAJOR:	

Students transferring during the freshman year must meet college standards.
Students transferring after the freshman year must:

- (1) have completed three courses in anthropology or sociology with a grade of C- or better
- (2) have a cumulative grade average of at least 1.86
- (3) Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

Same as college standards (pages 43-45).

VISUAL ARTS

The visual arts, our oldest form of artistic expression, offer an understanding of humanity and the cultural forces that have affected us historically. Moreover, as visual communication becomes more widespread in the contemporary world, the use and understanding of visual languages must be seen as a necessary part of the educational process. In view of the importance of the visual arts, the aim of the department is threefold:

- (1) To introduce the visual arts and architecture (*for information on the architecture program, see page 58*) both as history and as creative activity in the context of a broad liberal arts education;
- (2) To offer a focused study of the visual arts through critical examination of both the language and content of art and architecture in the context of a particular historical period, or through the hands-on experience of a studio setting;
- (3) To provide an opportunity for a solid academic foundation to those who wish to pursue a career in art and architecture or related fields.

A main resource of the department is Boston itself. Its architecture spans 300 years, museums are world famous, galleries and cinemas offer the latest in their respective areas, and its public library is one of the best of its kind. Learning to use these resources systematically is an all-embracing aim of the department.

MAJORS OFFERED: General art (concentrations in animation, photography, art history)
Media Arts and Design (graphic design)

DEGREES OFFERED: B.S. in Media Arts and Design (graphic design)
B.A. or B.S. General Art (animation, photography, art history)

DUAL MAJOR: Multimedia Studies (Departments of Music and Art)
Concentrations: animation, graphic design, and photography.

MINORS: general art; history of art, history of architecture; animation; photography

DEPARTMENT LOCATION AND PHONE: 239 Ryder; 617-373-2347

DEPARTMENT (ACTING) CHAIR: TBA

HEAD ADVISOR: TBA

COOPERATIVE EDUCATION COORDINATOR: Dr. Ann Galligan, Office: 317 Ryder Phone: 617-373-3439
e-mail: a.galligan@neu.edu

EXPERIENTIAL EDUCATION ADVISOR: TBA

PROGRESS IN THE MAJOR:

- A minimum grade point average in art courses of 2.00 is required to enter the sophomore year.
- A minimum grade point average in art courses of 2.5 is required to enter the middler, junior, and senior years; to graduate a student must have an art course GPA of 2.666 in the Animation, Graphics, and Photography areas, or a 2.5 in Architecture and General Art areas.
- Students below these averages will not be allowed to continue in the major.
- Portfolio Review (Art 1354) is required after 36 qhs of Art for those graduating in 2002 and thereafter.

TRANSFERRING TO THE MAJOR:

Students wishing to transfer to the visual arts major or minor as internal transfer students must petition the Department Chair. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs. Because majors in the Visual Arts are in high demand, transfer students need to:

1. have an overall QPA of at least 3.0;
2. present a portfolio of art work to show the quality of long-term involvement in art (directions below);
3. take four ART-prefix courses and earn grades of B or better;
4. If the student's portfolio and the grades in the four ART courses meet department guidelines, the student will be accepted into the Visual Arts major.

PORTFOLIO INSTRUCTIONS

Portfolios must include 15 slides of original artwork in an 8" by 11" plastic slide sheet. All slides should be clearly numbered and labeled on the front with the student's name, title of work, date completed, dimensions, and media used. The top of the work is indicated by an arrow.

In addition, the portfolio contains:

1. a typed slide inventory list with the student's name, address, telephone number, and social security number at the top;
2. a separate typed one-page artist's statement describing the student's art work, background and interest in art, r goals, and artistic influences (perhaps including one or two contemporary artists whose work the student admires).
3. If the student wants slides returned, a stamped, self-addressed envelope should be included.

ARCHITECTURE

DEGREE OFFERED:	B.S. in Architecture
DEPARTMENT LOCATION AND PHONE:	154 Ryder; 617-373-2347
DEPARTMENT CHAIR:	George Thrush
HEAD ADVISOR:	TBA
COOPERATIVE EDUCATION COORDINATOR:	TBA
EXPERIENTIAL EDUCATION ADVISOR:	TBA

PROGRESS IN THE MAJOR:

- A minimum grade point average in art courses of 2.00 is required to enter the sophomore year.
- A minimum grade point average in art courses of 2.5 is required to enter the middle, junior, and senior years; to graduate a student must have a 2.5 in Architecture and General Art areas.
- Students below these averages will not be allowed to continue in the major.

TRANSFERRING TO THE MAJOR:

Students wishing to transfer into the Architecture major may see the Chair, Professor George Thrush. A portfolio is not needed to transfer. A minimum grade point average of 2.5 is required to transfer into the architecture major, as well as completing four ART-prefix courses with a grade of "B" or better.

BEHAVIORAL NEUROSCIENCE

Behavioral Neuroscience focuses on the biological basis of human behavior. The program combines the disciplines of psychology and biology to appreciate the scope of human behavior and to then understand how the behavior of humans and other animals is controlled by physiological systems. Course work is designed to provide an understanding of nerve cells, chemical neurotransmission, and neural circuits as well as fundamental biological processes such as inheritance, development, and physiology and to then see how these biological mechanisms give rise to normal and pathological behavior. The curriculum includes a strong background in chemistry and mathematics and prepares students for higher degree granting programs in graduate or medical school. In addition, students with a bachelor's degree are qualified for employment in a variety of fields from clinical and basic research to positions in healthcare or biotechnology.

DEGREE OFFERED: B.S.

DEPARTMENT LOCATION: 125 Nightingale

PHONE: 373-3076

**DIRECTOR, HEAD ADVISOR, AND ADVISOR
FOR EXPERIENTIAL EDUCATION :**

Denise Jackson
125 Nightingale
373-3076
e-mail: d.jackson@neu.edu

**COOPERATIVE EDUCATION
COORDINATOR:**

Michelle Israel

Office: 138 Nightingale Phone: 617-373-3464
e-mail: m.israel@neu.edu

TRANSFERRING TO THE MAJOR:

Students must have a minimum cumulative grade average of 2.0 and completion of any four of the following six courses: BIO 1100 Principles of Biology 1 (or Biology 1108 General Biology); BIO 1101 Principles of Biology 2 (or BIO 1109 Animal Biology); PSY 1111 Foundations of Psychology 1; PSY 1112 Foundations of Psychology 2; CHM 1111 General Chemistry for the Life Sciences 1 and CHM 1122 General Chemistry for the Life Sciences 2, with grades of at least 2.0. Acceptance into the major will be based on students meeting the above criteria and availability of space in the programs.

PROGRESS IN THE MAJOR:

Same as college standards (pages 43-45).

BIOCHEMISTRY

The biochemistry major offers students the opportunity to understand complex biological events at the molecular level. The firm scientific basis upon which the major rests affords the student the preparation needed to enter a graduate or professional school or to find employment as a biochemist in a wide variety of settings. The degree is intended to provide the student with greater depth in the field than would ordinarily occur for a student majoring in either biology or chemistry.

DEGREE OFFERED: B.S.

ADVISING:

The Biochemistry major is an interdepartmental major that is jointly sponsored by the Departments of Biology and Chemistry. Students may choose a faculty advisor from either department but not both (see pp for advisor/department information). Advisor assignments are made by the Biochemistry Coordinating Committee Chair, Professor Mary Jo Ondrechen (617-373-2856)

TRANSFERRING TO THE MAJOR:

Upperclass students transferring to biochemistry must have a minimum grade average of **3.0** in the following courses: BIO 1100, BIO 1101 (plus labs), CHM 1151 or CHM 1111, CHM 1152 or CHM 1122, MTH 1133 (or equivalent), MTH 1134 (or equivalent), and 1135 (or equivalent), PHY 2221, and PHY 2222. Transferring into biochemistry requires the approval of the Biochemistry Coordinating Committee Chair. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

- After 7 quarters, biochemistry majors must have a grade average of at least 2.0 in all mathematics, chemistry, biology and physics courses taken at Northeastern and have completed the following courses:
 - BIO 1100, 1101, 1102 (plus labs)
 - CHM 1111 or 1151, 1122 or 1152, 1221
 - MTH 1133, 1134, 1135
 - PHY 2221, 2222, 1521, 1522 or 1533
- After 9 quarters, students must have a grade average of 2.0 in all mathematics, chemistry, biology and physics courses taken at Northeastern.
- Students who transfer into the biochemistry major will be allowed two quarters after entering the major to meet the minimum standards for their class.
- Students who fail to meet the above standards will be placed on departmental probation. Two consecutive quarters on departmental probation will result in dismissal from the major.

BIOLOGY

The biology major offers students the opportunity to develop a basic understanding of the organization and the processes of life, from the level of molecules and cells through the level of organs and organ systems to the level of populations, species, eco-systems, and evolution. The major also offers the mathematical, chemical, and physical background necessary to understand biology and to help train students in practical scientific skills associated with each of these areas of study. The major also allows students to begin to specialize in a subdiscipline of biology; a special program of study, the concentration in Marine Biology, is offered for those interested.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	414 Mugar
PHONE:	617-373-2260
DEPARTMENT (ACTING) CHAIR:	Susan Powers-Lee e-mail: spl@neu.edu
HEAD ADVISOR:	Kostia Bergman, 617-373-3496 e-mail: k.bergman@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Kostia Bergman
COOPERATIVE EDUCATION COORDINATOR:	Veronica Porter (students A-M) Office: 413A Mugar Phone: 617-373-3471 e-mail: v.porter@neu.edu
CONCENTRATION OFFERED:	TBA (students N-Z) Marine Biology

TRANSFERRING TO THE MAJOR:

Freshmen transferring to biology must have a minimum cumulative grade average of 2.0 and have completed MTH 1106 or MTH 1107 with a grade of C or better. Upperclass students transferring to biology must have a minimum grade average of 2.0 and a grade of at least C in MTH 1107. Acceptance into the major will be based on student's meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

- After 5 quarters, biology majors must have a grade average of at least 2.0 in all science and math courses and have completed at least eight of the following courses:
 - BIO 1100, 1101, 1102 (plus labs 1600, 1601, 1602) and 1222 (plus lab 1611) or an advanced biology elective)
 - CHM 1111, 1122, 1264 and 1265
 - MTH 1106, 1107 and 1108or
 - MTH 1133, 1134 and 1135
- Students who transfer into the biology major must earn a 2.0 grade average in science and math courses and complete at least five of the courses listed above after three quarters in the major.
- Students who fail to meet the above standards will be placed on departmental probation. Three consecutive quarters on departmental probation will result in dismissal from the major.

BIOMEDICAL PHYSICS

At the most basic level, biomedical physics seeks to understand the role of physical processes occurring on molecular, cellular, or macroscopic scales, in vital biological functions, ranging from the extraction of oxygen from the lungs by red blood cells to the generation of complex electrical signals in the brain and nervous system. At the most practical end, biomedical physics examines how physical principles and modern instrumentation techniques can be used in a rapidly increasing number of medical applications, ranging from imaging tissue structures and organ functions, to detecting and curing diseases, to performing sophisticated surgeries. The biomedical physics major prepares students for a broad range of careers and graduate study options in biorelated areas. Students can choose to find direct employment in various industrial or hospital facilities, as well as in companies involved in developing and manufacturing medical devices, biomaterials, and instrumentation. They can also choose to attend medical school, to pursue advanced degrees in physics, biophysics, biomedical engineering, or to enter a professional graduate program in medical physics.

DEGREES OFFERED:	B.S.
DEPARTMENT LOCATION:	111 Dana
PHONE:	373-2902
DEPARTMENT CHAIR:	TBA
HEAD ADVISOR: e-mail: aaron@neu.edu	Ronald Aaron
EXPERIENTIAL EDUCATION ADVISOR: e-mail: israeloff@neu.edu	Nathan Israeloff
COOPERATIVE EDUCATION COORDINATOR:	TBA
TRANSFERRING TO THE MAJOR:	Ronald Aaron J. Timothy Sage e-mail: jtsage@neu.edu

Students must have a minimum cumulative quality point average of 2.0. (Same as college standards.) Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:	Professor Ronald Aaron Professor Stephen Reucroft
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- See Department.

CHEMISTRY

Chemistry is concerned with the structure and properties of substances and with the transformations they undergo. Modern chemistry is the cornerstone for a large number of professions and industries. The educational objectives of the chemistry department are threefold:

- (1) To experience the intellectual stimulation of studying a physical science;
- (2) To grasp the basic principles and techniques central to a variety of chemistry-related careers;
- (3) To prepare for graduate study in chemistry or related fields.

The chemistry major programs are based on a career-oriented concept and offer students an excellent opportunity to prepare for the study of medicine and dentistry and to do advanced study in many fields of science.

The chemistry department offers major programs that lead to the B.A. or B.S. degree. The two degree curricula differ mainly in their arts and sciences content and advanced science course requirements. All students take courses in organic, inorganic, physical, and analytical chemistry. For the B.S. degree, some additional advanced mathematics and science courses are required. Qualified students are encouraged to undertake a research program under the supervision of a faculty member.

The Chemistry Department offers several interdisciplinary options in which some of the chemistry and math courses required of B.S. chemistry majors have been replaced with required and elective courses focused on business, education, environmental science, or law and public policy. See the chemistry department for information regarding these options.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	102 Hurtig
PHONE:	373-2822
DEPARTMENT CHAIR:	David Forsyth e-mail: d.forsyth@neu.edu
HEAD ADVISOR AND EXPERIENTIAL EDUCATION ADVISOR :	Rein Kirss e-mail: r.kirss@neu.edu
COOPERATIVE EDUCATION COORDINATOR:	TBA
TRANSFERRING TO THE MAJOR:	Rein Kirss

A quality point average of 2.0 is required in all chemistry, physics and math courses taken. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the program.

PROGRESS IN THE MAJOR:

- Students who began as freshman chemistry majors must, after five quarters, have completed 80 quarter hours and the following courses with grades of *D* or better: CHM 1151, CHM 1152, CHM 1271, CHM 1272; MTH 1140, MTH 1141, MTH 1142, MTH 1243; PHY 1221, PHY 1222, PHY 1223, PHY 1522, and PHY 1533.
- Students who transferred into the majors must, after 3 quarters in the major, have completed the following courses with grades of *D* or better : CHM 1151, CHM 1152; MTH 1140, MTH 1141, MTH 1142, PHY 1221, PHY 1222, PHY 1223, PHY 1522, PHY 1533, or equivalent courses.

COMMUNICATION STUDIES

Via a comprehensive curriculum which combines theoretical courses and practical experiential courses with co-op and internship placements related to the student's personal and professional goals the department seeks:

- (1) To stimulate the student's personal growth and development in perception and self-expression through the study of historical, contemporary, and artistic aspects of speech and communication, and to provide organized knowledge and critical insight;
- (2) To help prepare the student for professions that require both a theoretical and a technical knowledge of communication, such as broadcasting, the law, government service, public relations, advertising, social service, industrial communication, and similar fields;
- (3) To help prepare the student for advanced graduate study in communication and other professional fields.

CONCENTRATIONS OFFERED: Speech and Rhetoric; Interpersonal and Organizational Communication; Media Studies

DEGREES OFFERED: B.A.; B.S.

DEPARTMENT LOCATION: 101 Lake

PHONE: 373-5517

DEPARTMENT CHAIR P. David Marshall
e-mail: p.marshall@neu.edu

HEAD ADVISOR: Joanne Morreale
e-mail: j.morreale@neu.edu

EXPERIENTIAL EDUCATION ADVISOR: Joanne Morreale

COOPERATIVE EDUCATION COORDINATOR(S): Jacqueline Sweeney (Students I-Z)
Office: 127 Holmes Phone: 617-373-3409
e-mail: j.sweeney@neu.edu
Pamela Goodale (Students A-H)
Office: 417 Holmes Phone: 617-373-3423
e-mail: p.goodale@neu.edu

TRANSFERRING TO THE MAJOR:

Students wishing to transfer to the major must have a cumulative quality point average of 3.0 overall and must have completed *CMN 1115 Foundations of Communication* and *CMN 1250 Media, Society, Culture* with grades of B or higher. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

Departmental probation will result from a cumulative grade average below 2.75 in communication courses. No more than two grades below a C in communication studies courses can be used to fulfill degree requirements. Dismissal from the major may occur as a result of two consecutive quarters on departmental probation.

ECONOMICS

Economics is the study of how societies produce and exchange goods and services to satisfy material needs. Economists analyze the process of economic growth and identify policies that contribute to economic stability and progress.

In the economics program, students examine the sources of economic growth—how societies produce more of what they need. Undergraduates study economics as part of a broad interest in the social sciences to develop specialized skills useful in today’s complex labor market. The major in economics is a good foundation for graduate studies in advanced economics, public policy, law, or business.

Macroeconomics, which focuses on the overall economy, deals with such problems as inflation, unemployment, growth and instability, economic development, and governmental monetary and fiscal policies.

Microeconomics examines the economic behavior of individuals, households, firms, industries, and trade among countries. It seeks to assess the economic effects of market power and environmental damage and analyzes the economic aspects of natural resources, poverty, health, income distribution, trade unions, and government regulations.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION AND PHONE:	301 Lake; 617-373-2882
DEPARTMENT CHAIR:	Steven Morrison e-mail: sam1@neu.edu
HEAD ADVISOR:	Alan Dyer e-mail: Dyer@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Oscar Brookins e-mail: Obrookin@lynx.neu.edu
COOPERATIVE EDUCATION COORDINATOR:	Terry Chapman Office: 325A Hayden; phone: 617-373-5961
TRANSFERRING TO THE MAJOR:	Professor Alan Dyer Same as college standards (pages 43-45). Acceptance into the major will be based on students meeting the department’s criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

- For students wishing to major in economics, three of the core courses (ECN 1215, ECN 1216, and ECN 1250) should be completed within three quarters of qualifying to take them--i.e., within three quarters of finishing ECN 1115 and ECN 1116--or two economics “pathway” courses and MTH 1114. ECN 1220 (1337) (for B.A. students) and ECN 1260 (1351) (for B.S. students) should be completed within two quarters of completing ECN 1215, ECN 1216, and ECN 1250.)
- For B.S. majors, grades earned in the four core courses (ECN 1215, 1216, 1250, and 1260--formerly 1351) must average to a 2.00 or better.
- For B.A. majors, grades earned in the four core courses (ECN 1215, 1216, 1250, and 1220--formerly 1337) must average to a 2.00 or better.
- After admission to the major, all required economics courses must be taken in the day college.

EDUCATION

LOCATION:	50 Nightingale Hall
PHONE:	617-373-4216
DEAN AND DIRECTOR:	James Fraser e-mail: j.fraser@neu.edu
ASSOCIATE DIRECTOR FOR ACADEMIC AFFAIRS:	Professor Thomas Gilbert e-mail: t.gilbert@neu.edu
HEAD AND EXPERIENTIAL EDUCATION ADVISOR:	Ms. Mickey Cokely e-mail: m.cokely@neu.edu
COOPERATIVE EDUCATION COORDINATOR:	Nancy Geoffrion Office: 43 Lake Phone: 617-373-3453 e-mail: n.geoffrion@neu.edu

The School of Education offers core professional courses needed to qualify for teaching licensure. Students who are interested in educational issues or considering teaching should first enroll in ED 1101, Introduction to Education. Students may enroll in 1100 or 1200 level courses prior to admission to the School of Education. For students interested in advanced level courses and eligibility for student teaching and endorsement from Northeastern for Massachusetts' licensure, the process for admissions is described below.

Step 1: Successful completion of ED 1101 course and field experience.

Step 2: Admission Process.

Upon completion of ED 1101, students may apply for admission by submitting the following materials to the School of Education Admission Committee.

1. a one page application and written statement about their interest in teaching.
2. Documentation and evaluation of the field experience and final essay from ED 1101.
3. An unofficial transcript of their college grades (School of Education students are normally expected to have a minimum of a 2.75 grade point average by their sophomore year.)
4. Students will normally be notified of the admission decision within six weeks of making application. Students must be admitted to the School prior to taking advanced courses or participating in School of Education funded co-op placements.

Admissions materials are available from Ms. Sandra Lally, 50 Nightingale Hall, Room 65.

Step 3: Admission to Student Teaching.

To student teach, a student must:

1. Pass both the Literacy and Subject matter portions of the Massachusetts Test for Educators Licensure (MTEL).
2. Maintain a 2.75 grade point average and a "C" or better in Education courses.
3. Earn satisfactory evaluations from three field experiences (minimum of 75 hours).
4. Complete all education courses required for licensure.
5. Apply for student teaching in the Spring quarter of the junior year.

DEGREE OFFERED

Education students pursue a B.A. or B.S. degree through one of the other departments of the college while also completing the requirements for Elementary Education or the Minor in Secondary Education. Education students pursuing the B.A. degree must fulfill the B.A. Modern Language requirement but need to complete only the B.S. core curriculum.

FIELDS OF STUDY LEADING TO MASSACHUSETTS LICENSURE:

Elementary education (grades 1-6).

Second license in early childhood (preK-grade 2).

Secondary education in a specific discipline (9-12).

Second license in middle school (5-8).

Teacher of Students with Moderate Disabilities (pre-K-8 or 5-12) additional licensure (pending final regulations by the Massachusetts Department of Education.)

PROGRAM IN ELEMENTARY AND EARLY CHILDHOOD EDUCATION

To be licensed as an elementary or elementary/early childhood teacher, a student must complete an appropriate arts and sciences major, a professional program of education, and college core courses. Students who successfully complete this program receive a B.A. or B.S. degree in their arts and sciences major and are eligible for endorsement for initial teacher licensure. Students also have the option of completing an additional license as a teacher of students with moderate disabilities.

The professional education program helps students understand how children acquire literacy and develop numerical, scientific, social, and aesthetic concepts. The focus of the program is the young learner and how schools organize curricula and culturally relevant teaching to ensure successful learning for all students. These skills help students prepare for careers in pre-school, elementary schools, and other educational agencies.

MINOR IN SECONDARY EDUCATION

For students seeking careers as high school or high school/middle school teachers, the minor in secondary education offers an opportunity to prepare to teach in a range of disciplines. Please check with the School of Education advisor regarding specific disciplines. The focus of the program is in areas of child development, curriculum design, and culturally relevant pedagogy for today's middle and high schools. Students reflect on the needs of contemporary secondary students, develop strategies for ensuring that all students learn effectively and the nature of the teacher-student-community relationships.

Additional licensure in Teacher of Students with Moderate Disabilities (PreK-8 or 5-12).

Students seeking this additional license will focus on the design or modification of curriculum, instructional materials, and general education classroom environments for students with moderate disabilities.

Students in education programs must see their advisor in Education as well as their advisor in the Arts and Sciences major.

PLEASE NOTE: NORTHEASTERN EDUCATION PROGRAMS ARE APPROVED BY THE MASSACHUSETTS DEPARTMENT OF EDUCATION. THE STATE WILL BE RENEWING PROGRAM APPROVAL FOR ALL SCHOOLS OF EDUCATION TO MEET THE NEW STATE LICENSURE REGULATIONS. THE CURRICULUM MAY BE ADJUSTED ACCORDINGLY. STUDENTS WILL BE INFORMED OF ANY CHANGES.

ENGLISH

We live in a time when precise expression, astute interpretation, and the ability to make informed critical evaluations are skills in great demand in the workplace and in graduate and professional schools. The study of writing and literature fosters those skills, offering at the same time insights into the ways of women and men, and giving shape and meaning to otherwise formless experience. And the study of writing and literature accomplishes these goals with great force and a graceful economy of means. To use a common phrase, literature, speaking of humanity's place in the cosmos, "tells it like it is"--not statistically, not abstractly, but with representations of fully realized people in imaginatively accessible worlds. As one writer put it, literature gives us "imaginary gardens with real toads in them."

The English curriculum is multiverse in its aims and flexible in its design. For the general University student body, the curriculum offers possibilities in creative, expository, and technical writing, as well as the more popular forms of literature. For students within the College of Arts and Sciences, the curriculum offers courses in literature and language study that present these as methods of inquiry and show how literature addresses the western cultural heritage, theoretical perspectives and changes, and current issues in perspective. For students who major in English, the curriculum offers the opportunity to study writing and literature in preparation for a professional education or for careers in teaching and research, writing and publishing, radio and professional communication -- indeed, for careers in any field in which clear expression and good judgment go hand in hand.

CONCENTRATIONS OFFERED:	Literature Creative Writing
DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	406 Holmes
PHONE:	373-2512
DEPARTMENT CHAIR:	Mary Loeffelholz e-mail: m.loeffelholz@neu.edu..
HEAD ADVISOR AND EXPERIENTIAL EDUCATION ADVISOR:	Marina Leslie e-mail: m.leslie@neu.edu
COOPERATIVE EDUCATION COORDINATOR:	Pamela Goodale Office: 417 Holmes Phone: 617-373-3423 e-mail: p.goodale@neu.edu

TRANSFERRING TO THE MAJOR:

Students are required to have a 2.0 QPA to transfer to the major after the freshman year. Transfer students must have at least a 2.5 QPA in their English courses within two quarters of declaring the major. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the program.

PROGRESS IN THE MAJOR:

All majors must have at least a 2.5 QPA overall and in their English courses by the end of their sophomore year.

ENVIRONMENTAL STUDIES

The Environmental Studies program is an interdisciplinary program designed for students who wish to apply an understanding of both social and scientific issues to the solution of environmental problems. The goal of the major is to enable students to conceptualize and to attack “unstructured problems” (problems with many more variables than equations or problems for which there may be no obvious single best solution). This type of problem dominates natural environmental systems; the solutions to environmental problems may require balancing scientific and societal concerns. By the time they graduate, students should be able to identify an environmental problem, develop a plan to address the problem, identify and organize the resources which they would need to solve the problem, and know how to put a plan to solve the problem into action.

The program is structured to provide a progressive development in skills and knowledge. It is flexible in that it allows latitude in upper-level course choices, selected with the approval of a faculty advisor, to suit individual student interests. Students are strongly encouraged to complete a dual major combining Environmental Studies and another major.

DEGREE OFFERED:	B.A.
DEPARTMENT LOCATION:	14 Holmes
PHONE:	617-373-3039
PROGRAM DIRECTOR:	Jennifer Coombs e-mail: j.coombs@neu.edu
HEAD ADVISOR:	Jennifer Coombs
EXPERIENTIAL EDUCATION ADVISOR:	Jennifer Coombs
COOPERATIVE EDUCATION COORDINATOR:	William Wray Office: 377B Holmes Hall Phone: 617-373-4210 e-mail: w.wray@neu.edu

TRANSFERRING TO THE MAJOR: Acceptance into the major will be based on students meeting the department’s criteria for admission and availability of space in the program.

Same as college standards (pages 43-45).

PROGRESS IN THE MAJOR:

Same as college standards.

GEOLOGY

Geology is a broad-based science that deals with the study of the physical features, composition, history, and processes of the earth. The study of geology also demands an understanding of the application of scientific knowledge to current environmental problems and concerns. For example, the manufacture of an enormous number of products composed of metals and petroleum derivatives is a primary basis of our society's economy. Understanding the origins of these natural resources and the ways in which to ensure their continued supply is, therefore, an important role of today's geologists. Many geologists are involved in development and maintenance of precious water resources and in analysis of numerous environmental problems. Only a small portion of the earth has been studied in detail, leaving many unexplored frontiers for each new graduate in the field.

Since the study of geology requires knowledge of the principles of chemistry, physics, and mathematics, students should complete the basic courses in these areas, along with physical and historical geology, during the first two years. After completing physical geology, all majors are required to take *Petrology* and *Geomorphology*, and, after completing a year of chemistry, *Descriptive Mineralogy*. At this point students may choose a specialization in either geology or environmental geology.

Those seeking degrees in geology must then take *Optical Crystallography* (B.S. degree only) and Structural Geology (B.S. and B.A.) plus 8 geology electives (5 for B.A. degrees). Students who choose environmental geology must take *Geology and Land-Use Planning* and *Environmental Planning* plus 8 geology electives (5 for B.A. degree). Additional electives must also be taken in the other sciences (or engineering), mathematics, humanities, and social sciences.

DEGREES OFFERED: B.S. or B.A. in Environmental Geology and Geology

DEPARTMENT LOCATION: 14 Holmes Hall

PHONE: 617-373-3176

DEPARTMENT CHAIR: Peter Rosen
e-mail: p.rosen@neu.edu

HEAD ADVISOR: Peter Rosen

EXPERIENTIAL EDUCATION ADVISOR: Patrick Colgan

CO-OPERATIVE EDUCATION COORDINATOR: TBA

TRANSFERRING TO THE MAJOR: Peter Rosen

Same as college standards (pages 43-45). Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR: Same as college standards.

HISTORY

History is the study of the causes and consequences of changes in human events across time. Like other liberal arts disciplines, historical study trains students to think knowledgeably and critically through reading, writing, and discussing both print and nonprint texts about the human experience. It enhances a deeper understanding of today's cultures in a global context. The study of history helps students develop powers of judgment and expression for future leadership in public service, international organizations, communications, education, business, or the professions.

The department offers a broadly based Bachelor of Arts major, which includes a foreign language requirement. It also offers two bachelors of science options. One option emphasizes training in the social sciences, including requirements in statistics and computer science as well as a minor in fields such as economics, political science, or sociology. The other option prepares students in such public history fields as museum administration, archival management, or historic preservation. The department offers an array of dual major programs with other disciplines and also participates in a variety of interdisciplinary offerings, including Asian Studies, Cinema Studies, Environmental Studies, International Affairs, Jewish Studies, Latino/a Studies, and Women's Studies.

All history major take courses in European or world history, American history, and historical methods, as well as advanced work in a range of historical eras and world regions. Majors complete their studies with a senior research seminar. Honors study is strongly encouraged for eligible students. Advanced undergraduates have the opportunity to do a directed study on an individual basis with members of the faculty on topics of mutual interest. Cooperative education placements, fieldwork, internships, and other experiential learning activities are available.

Undergraduates who plan to teach in the public schools may combine history with education courses that can lead to state certification. Those intending to teach in private secondary schools need not be certified by state authorities. Teaching positions in colleges and universities require advanced degrees at the graduate level.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	249 Meserve
PHONE:	373-2660
DEPARTMENT CHAIR:	Thomas Havens e-mail: t.havens@neu.edu
HEAD ADVISOR:	Jeffrey Burds e-mail: j.burds@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Harvey Green e-mail: h.green@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	Lester Lee Office: 377B Holmes; phone: 617-373-3404 e-mail: l.lee@neu.edu

TRANSFERRING TO THE MAJOR: Jeffrey Burds
Same as college standards (pages 43-45). Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

HUMAN SERVICES

Human services is an interdisciplinary major in the College of Arts and Sciences. This major offers students a program of preparation for careers in one of the areas broadly defined as “the helping professions.” The human services curriculum affords students the opportunity to acquire fundamental attitudes, knowledge, and skills that may lead to meaningful careers as well as to graduate education in numerous human services specializations.

Students who major in human services in the College of Arts and Sciences prepare for jobs in both public and private agencies. Through course work, two quarters of internship experience, and a minimum of three quarters of co-op work, they have the opportunity to explore such areas as casework in social service and welfare agencies; therapeutic treatment programs in mental health settings; serving deaf clients through the use of American Sign Language; supportive counseling in community health centers; rehabilitation counseling; assisting individuals in sheltered workshops; parole counseling; court liaison in programs for delinquent youth; staff work in halfway houses, penal institutions, and drug treatment centers; supportive counseling for the mentally retarded; community organizing; services for the aging; administration in human services agencies; and research and evaluation in social programs. A specialization in deaf studies is offered through the human services major. Other specializations are arranged through consultation with a human services advisor.

DEGREES OFFERED:	B.A.; B.S.
PROGRAM LOCATION:	587 Holmes
PHONE:	373-2624
PROGRAM DIRECTOR:	Maureen Kelleher e-mail: m.kelleher@nunet.neu.edu
HEAD AND EXPERIENTIAL EDUCATION ADVISOR:	Wil Holton e-mail: w.holton@neu.edu
CO-OPERATIVE EDUCATION ADVISOR:	Melissa McDaniels Office: 579 Holmes Phone: 617-373-4773 e-mail: m.mcdaniels@neu.edu

TRANSFERRING TO THE MAJOR: Any internal transfer student must have a cumulative grade average of at least 3.0. Acceptance into the major will be based on students meeting the department’s criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR: After five quarters, students must have a cumulative grade average of at least 2.5, have earned at least 72 quarter hours, and should have completed: SOC 1100, and HS 1302 and any five of the following: PSY 1111 and 1112 *or* ED 1102 and 1103; POL 1111 *or* another POL course; ECN 1001, 1170 *or* another ECN course; SOC 1240; SOC 1320, PSY 1211, ED 1307 *or* MTH 1152; CMN 1330, *or* CMN 1338 *or* ED 1317; a social/community issues course (see advisor)

Students who transfer to the major have three quarters to complete the above requirements. Students whose QPA remains below 2.5 for 28 quarter hours beyond the above checkpoints will be dismissed from the major. In order to take Human Services Internship I (HS1336), students must have a grade average of at least 2.5 in human services courses, including all of the human services prerequisite courses and at least four of the human services core courses.

INTERDISCIPLINARY STUDIES

The College of Arts and Sciences offers students the opportunity to study in a broad range of interdisciplinary programs suited to their curricular or career objectives and also permits students to design their own independent programs of study. Many of these programs are coordinated through the Center for Interdisciplinary Studies. These programs of study include:

Interdisciplinary majors - Behavioral Neuroscience, Biochemistry, Environmental studies, Human Services, International Affairs, and Linguistics.

Integrated dual majors – Integrated dual major options are limited to those combinations where faculty in two majors have identified thirteen courses from each major, plus an additional to four “capstone” or integrative courses that specifically help students link the concepts learned in one major with that of the other. See pages 8-9 for a list of all dual majors.

Independent majors and minors – Students may petition to design an **independent major**, which is expected to be interdisciplinary in nature, crossing two or more disciplines. All independent majors must also include a significant research effort. Students may also petition to design an **independent minor**. The independent minor would contain at least nine courses approved by a faculty advisor. Both proposals would be subject to review the by College Curriculum Committee. See pages 6-7 for additional information.

For more information on interdisciplinary studies, please contact the Center for Interdisciplinary Studies.

PROGRAM LOCATION AND PHONE:

09 Holmes Hall
373-2427

DIRECTOR:

Professor Gerald Herman
e-mail: g.herman@neu.edu)

STAFF ASSISTANT:

Liz Larcano
e-mail: l.larcano@neu.edu

INTERNATIONAL AFFAIRS

International Affairs is an interdisciplinary major in the College of Arts and Sciences. This major helps students prepare for living and working in our increasingly global society--the interdependent world in which they will be competing and cooperating.

Students who major in international affairs in the College of Arts and Sciences focus on topics that are historical and in the news today and gain perspective on the forces that shape the events around us. Students will complete nine required courses and eight elective courses to be selected from among those in the International Affairs program's dual categories of *Regional Analysis* (four courses) and *Global Dynamics and Development* (four courses).

In addition to required and elective course work, foreign language proficiency (through intermediate level II) is required, as well as an international experience. Students may fulfill the international experience requirement by taking advantage of Northeastern's Study Abroad Program, or programs sponsored by other universities. In addition, the requirement might be satisfied by participating in an internship abroad, which may be developed by the student, an academic department, the Study Abroad Office, or international co-op, which would be arranged through the Division of Cooperative Education.

DEGREES OFFERED:	B.A.
PROGRAM LOCATION AND PHONE	303 Meserve (373-2796)
PROGRAM DIRECTOR:	Denis Sullivan e-mail: djs@neu.edu
HEAD ADVISOR,	Irm Haleem E-mail: i.haleem@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	TBA
CO-OP ADVISOR:	William Wray Office: 377B Holmes; phone: 617-373-4210 e-mail: w.wray@neu.edu

TRANSFERRING TO THE MAJOR:

Students are encouraged to apply to the program by their sophomore year to begin planning early for their *International Experience*. Acceptance into the major will be based on students meeting the program's criteria for admission and availability of space in the programs. A 3.0 minimum grade point average is required for transferring into the major.

PROGRESS IN THE MAJOR:

Students majoring in International Affairs should maintain a 2.75 minimum grade point average until the beginning of their International Experience. Current Northeastern students wishing to declare an International Affairs major must have a minimum 2.75 grade point average. Students are advised that the study abroad option in their international experience component generally require a 3.0 average.

JOURNALISM

The School of Journalism, a unit of the College of Arts and Sciences, helps prepare students for careers in news media and related fields. It emphasizes skills in writing, editing, information gathering, videography, computer assisted reporting, and design and graphics that may be applied to numerous fields.

A journalist should have a broad background of undergraduate liberal arts courses. At Northeastern, as in most major university journalism programs, the formula for the bachelor's degree in journalism is a combination of 75% arts and sciences courses and 25% professional courses.

Journalism graduates work for newspapers, radio and television stations, wire services, general and specialized magazines, on-line publications, public relations departments, and advertising agencies.

The School of Journalism is presently working with other disciplines in creating dual majors. Dual majors in Journalism/Biology, Journalism/Cinema Studies/ Journalism/Economics, Journalism/History, Journalism/Modern Languages, and Journalism/Sociology have been approved. For more information, please speak to the Director of Journalism.

DEGREES OFFERED: B.A.; B.S.

SCHOOL OF JOURNALISM LOCATION: 102 Lake

PHONE: 373-3236

DIRECTOR OF THE SCHOOL OF JOURNALISM Stephen Burgard
e-mail: s.burgard@neu.edu

HEAD ADVISOR: TBA

EXPERIENTIAL EDUCATION ADVISOR: Belle Adler
e-mail: b.adler@neu.edu

CO-OPERATIVE EDUCATION COORDINATOR: Kellianne Murphy
Office: 177 Holmes; phone: 617-373-3412
e-mail: k.murphy@neu.edu

TRANSFERRING TO THE MAJOR: See the Director of the School of Journalism
Any student transferring to the School of Journalism must have at least a 2.25 cumulative grade average. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

- Students must complete JRN 1103 and JRN 1104 with grades of C or better by the end of the fifth quarter. Students who transfer into the major must complete JRN 1103, with grades of C or better, by the end of the third quarter in the major.
- Journalism majors must maintain a minimum grade average of 2.25. Students who remain below 2.25 for three consecutive quarters may be dropped from the major.

LINGUISTICS

What is language? How do children learn to speak? How are signed languages different from spoken languages? How do language barriers keep people apart, and how do language ties bring them together? Do men and women speak differently? How can language serve as a window into the mind? If you are interested in these questions, then linguistics is essential.

To use or teach a language effectively, you need historical, stylistic, and sociolinguistic information. To be at the cutting edge of cognitive science or artificial intelligence, you need to understand how natural languages are learned and processed. If your field involves language in any way, you need to know how language works.

The major in linguistics can prepare you for a graduate program in linguistics, education, languages, law, speech disorders, and many other fields. The major has also prepared students for careers ranging from robot-designer to museum curator, from psycholinguistics researcher to English teacher abroad, from dictionary maker to sign language interpreter. Here at Northeastern the major in linguistics is an interdepartmental enterprise. Seven departments (African American Studies, American Sign Languages, English, Modern Languages, Philosophy and Religion, Psychology and Sociology/Anthropology) collaborate to offer a comprehensive program with courses in core areas (syntax, phonology, semantics), in psycholinguistics, in sociolinguistics, and in the structure and history of French, Spanish, and African- American English, among others. The major reflects the current research of our faculty: linguists, sociologists, psychologists, language educators, and teachers of second languages.

DEGREES OFFERED:	B.A.; B.S.
PROGRAM LOCATION:	565 Holmes (office); 406 Holmes (mailbox)
PHONE:	617-373-3678
FAX:	617-373-8904
PROGRAM DIRECTOR, HEAD AND EXPERIENTIAL EDUCATION ADVISOR:	Janet Randall e-mail: randall@neu.edu
CO-OPERATIVE EDUCATION ADVISOR:	Kathryn Malloy Office: 205 Forsyth; phone: 617-373-2435 e-mail: k.malloy@neu.edu

TRANSFERRING TO THE MAJOR:

Same as college standards (page 43-45). Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the program.

PROGRESS IN THE MAJOR:

Same as college standards.

MATHEMATICS

The department offers two programs of study in mathematics. One leads to a B.A. degree and requires a minimum of 14 mathematics courses. Students in the B.A. program also must complete a foreign language requirement. Because mathematics-related material is often written in French, German or Russian, one of these languages is recommended. The other program leads to a B.S. degree. It requires a minimum of 17 mathematics courses but does not require study of a foreign language.

All students must take a basic sequence of mathematics courses which, as a rule, should be completed by the end of the sophomore year. The sequence offers students the opportunity to acquire a working knowledge of the calculus of one and several variables, differential equations, some linear algebra and numerical methods. Students are also encouraged to learn computer programming skills.

A transition from the basic sequence to more advanced parts of the curriculum is provided by *Linear Algebra I*, *Analysis I* and *Combinatorial Mathematics*. The advanced mathematics elective courses include *Algebra*, *Geometry*, *Complex Analysis*, *Numerical Analysis*, *Foundations*, *Number Theory*, *Probability* and *Statistics*, among others.

The curriculum is flexible enough to allow additional projects. For instance, it is possible for mathematics majors to follow programs leading to a double major in mathematics and another discipline in Arts and Sciences or Computer Science.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	567 Lake
PHONE:	373-2450
DEPARTMENT CHAIR:	Robert McOwen e-mail: mcowen@neu.edu
UNDERGRADUATE DIRECTOR:	Stanley Eigen e-mail: eigen@neu.edu
HEAD ADVISOR:	Thomas Sherman e-mail: sherman@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Martin Schwarz e-mail: m.schwarz@neu.edu
COOPERATIVE EDUCATION COORDINATOR:	TBA

TRANSFERRING TO THE MAJOR:

Upperclass students transferring to mathematics must have a cumulative grade average of at least 2.0. They should also have at least a 2.0 average in all mathematics courses. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the major.

(continued on next page)

MATHEMATICS

(continued from previous page)

PROGRESS IN THE MAJOR:

- Students who begin as freshman mathematics majors must, after the fifth quarter, satisfy the following: (a) have completed at least eight of their required mathematics and physics courses; (b) have a grade average of at least 2.0 in all required mathematics and physics courses.
- Students who transfer to the major must, after three quarters in the major, satisfy the following: (a) have completed at least five of their required mathematics and physics courses; (b) have a grade average of at least 2.0 in all required mathematics and physics courses.
- Students who fail to achieve the above conditions will be placed on departmental probation. Students who remain three consecutive quarters on departmental probation will be dismissed from the major.

MODERN LANGUAGES

The study of modern languages can be of value to all students, regardless of their major fields of interest. In the complex and rapid pace of modern life, there is a need for increased communication among varied and often divergent cultures, even those within the narrow confines of one's own community. To better understand and appreciate these cultures, it is important to know the ways in which the members of the culture think.

As the principal means of communication, language frequently offers the key to understanding. Thus, language may serve to help one achieve a more cosmopolitan, open-minded, and sensitive view of the world. The department offers opportunities for background preparation to students interested in elementary, secondary school, or college teaching; international business relations; high-tech fields; government service; journalism; library science; world affairs; travel; and community service, especially in Spanish-speaking areas. Those who wish to teach in college must plan on graduate study.

CONCENTRATIONS OFFERED:	Spanish and French (<i>students wishing to major in French should</i>
<i>contact</i>	<i>the Head Advisor for program requirements.</i>)
DEGREES OFFERED:	B.A.
DEPARTMENT LOCATION:	400 Meserve
PHONE:	617-373-2234
DEPARTMENT CHAIR:	Dennis Cokely e-mail: d.cokely@neu.edu
HEAD ADVISOR:	Stephen Sadow e-mail: s.sadow@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Stephen Sadow e-mail: s.sadow@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	Nancy Geoffrion Office: 43 Lake; Phone: 617-373-3453 e-mail: n.geoffrion@neu.edu
TRANSFERRING TO THE MAJOR:	

Same as college standards (pages 43-45). Acceptance into the major will be based on student's meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

Same as college standards.

MUSIC

A major in music offers students the opportunity to prepare themselves for a wide range of professions, including performance, arts administration, record marketing and promotion, artist management, music publishing, the marketing and merchandising of musical instruments and audio equipment, music publishing, studio production, and music composition..

Courses are offered in music appreciation, music theory, the history of music (both Western and non-Western), music composition, applied music lessons, music industry, and music technology. Performing ensembles directed by full-time music faculty provide the opportunity for students to experience first-hand the music they have studied in the classroom. Furthermore, an extensive concert series offers a varied program of performances on campus by faculty, students and guest artists.

CONCENTRATIONS OFFERED:

Music Industry (B.S. only)
Music Literature (B.A. only)
Music Literature and Performance (B.A. only)
Music Teacher Preparation (B.A. only)*
Music Technology (B.S. only)

DEGREES OFFERED:

B.A.; B.S.

DUAL MAJOR:

Multimedia Studies and Music/Art (concentration in Music Technology)

DEPARTMENT LOCATION:

351 Ryder

PHONE:

617-373-2440

FAX:

617-373-4129

DEPARTMENT CHAIR:

TBA

**HEAD ADVISOR AND EXPERIENTIAL
EDUCATION ADVISOR:**

Leon Janikian
e-mail: l.janikian@neu.edu

CO-OPERATIVE EDUCATION COORDINATOR:

Kate McLaughlin
Office: 356 Ryder; Phone: 617-373-5811
e-mail: k.mclaughlin@neu.edu

TRANSFERRING TO THE MAJOR:

Students who wish to transfer into the major must have a cumulative quality grade point average of 2.75 overall. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the major. Additionally, students who wish to transfer into the Music Technology concentration must submit a portfolio of recent original work and are encouraged to complete an interview. Enrollment into this concentration is limited and highly selective. Please see the department for specific instructions.

(continued on next page)

PROGRESS IN THE MAJOR:

After five quarters in the major, students must maintain at least a *B-* average in all major courses.

Students must complete all required music courses with grades of at least *C*.

Students who fail to meet the above standards will be placed on departmental probation. Students who remain on probation for three consecutive quarters will be dropped from the major.

*(*Students interested in obtaining Massachusetts State Music Teaching Certification have to be accepted in the Teacher Preparation Program. This is a coordinated Program between Northeastern University and the New England Conservatory of Music. See Professor David Sonnenschein for further information.)*

PHILOSOPHY & RELIGION

Philosophy is a basic field of inquiry. Its range encompasses ideas and issues in every domain of human experience; and its methods apply to problems of an unlimited variety. The major in philosophy can develop not only philosophical skill and sophistication but also critical thinking and writing abilities that are readily applicable to pursuits in other academic areas, useful in careers far removed from philosophy, and valuable in everyday social and personal life. The study of philosophy can profoundly affect both the thinking one does and the kind of person one is.

We offer three approaches to the philosophy and religion major:

- (1) the General Philosophy Major offers students a maximum number of electives so they may choose in accordance with their own backgrounds and interests;
- (2) the Concentration in Religious Studies uses the electives to explore a variety of both religious expressions and methods of inquiry.
- (3) the concentration in Law and Ethics focuses elective course work in the areas of law, social and political philosophy and applied ethics and is appropriate for students considering a career in either philosophy or law.

CONCENTRATIONS OFFERED:	Law and Ethics, Religious Studies
DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	371 Holmes
PHONE:	617-373-3636
DEPARTMENT CHAIR:	Stephen Nathanson e-mail: s.nathanson@neu.edu
HEAD ADVISOR:	Michael Meyer e-mail: mmeyer@lynx.neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Michael Lipton e-mail: m.lipton@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	William Wray Office: 377B Holmes; Phone: 617-373-4210 e-mail: w.wray@neu.edu

TRANSFERRING TO THE MAJOR:

A minimum cumulative grade average of 2.0 is required to transfer to the major. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:

A minimum cumulative grade average of 2.0 is required to remain in good standing in the major.

PHYSICS & APPLIED PHYSICS

Physics is concerned with the fundamental principles that govern phenomena ranging in scale from collisions of subatomic particles through the behavior of solids and liquids to exploding stars and colliding galaxies. Understanding these principles can help us unravel, explore, and predict the basic phenomena and processes not only of physics but also of biology, chemistry, and the earth and space sciences. Such an understanding will also help with the creation, development and operation of a broad spectrum of micro and macro devices ranging from the silicon chip electronic systems and lasers of today's high technology to the more conventional mechanical and electrical instruments and machinery currently used in research and industrial organizations.

Students who major in physics are offered the opportunity to prepare for a wide variety of careers. In addition to work in industrial, government, and high-technology laboratories in areas of applied physics, students who have mastered the fundamental principles emphasized in a physics education may find opportunities in such allied fields as biophysics, computer sciences, geophysics, medical and radiation physics, and various branches of engineering. Many students majoring in physics go on to pursue advanced degrees in physics and related fields.

DEGREES OFFERED:	B.A. (physics only); B.S. (physics or applied physics); B.S (Biomedical Physics). B.S./M.S. in Applied Physics and Engineering
DEPARTMENT LOCATION:	111 Dana
PHONE:	373-2902
DEPARTMENT CHAIR:	TBA
HEAD ADVISOR:	Professor Ronald Aaron e-mail: aaron@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Nathan Israeloff e-mail: israeloff@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	TBA
TRANSFERRING TO THE MAJOR:	Ronald Aaron Stephen Reucroft

Same as college standards (page 43-45). Acceptance into the major will be based on student's meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR: Ronald Aaron; Stephen Reucroft

- Students may not continue as physics majors beyond the end of the sophomore year unless the following courses are successfully completed: PHY 1221-1223, PHY 1521, 1522, and 1533, PHY 1300, PHY 1302-1305, MTH 1140-1142, MTH 1243, and MTH 1244 or equivalent courses. A minimum QPA of 2.5 must be achieved in these courses to remain in the major.
- Students may not graduate from the physics program unless all required physics, math, and science courses are passed with a QPA of 2.5 or more. Further, no more than two grades of *D+* or lower may be counted toward the graduation requirements.

POLITICAL SCIENCE

Political Science is concerned with the study of political institutions, the social and economic forces that shape them, the cultural context within which they operate and human behavior in political matters. Studies in this field can help the student with a special interest in public affairs to prepare for government service, the study of law, a career in politics, public affairs or public management, the teaching of government and related subjects, a career in such areas as journalism or international affairs, or any career requiring strong analytical skills and a knowledge of the world at large.

The department of political science has three objectives:

- (1) To educate students within the framework of the best liberal arts tradition;
- (2) To help heighten students' awareness about politics and about their role as citizens in a democratic society;
- (3) To provide the skills and experiences essential to a broad range of possible career paths.

CONCENTRATIONS OFFERED:	International and Comparative Politics; Law and Legal Issues Public Policy and Administration.
DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	300 Meserve
PHONE:	617-373-2796
DEPARTMENT CHAIR:	Denis Sullivan e-mail: djs@neu.edu
HEAD ADVISOR:	Michael Tolley e-mail: m.tolley@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	David Rochefort e-mail: d.rochefort@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	William Wray Office: 377B Holmes; Phone: 617-373-4210 e-mail: w.wray@neu.edu

TRANSFERRING TO THE MAJOR:

Upper-class students transferring to the major must have a cumulative grade average of at least 2.0. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the program.

PROGRESS IN THE MAJOR:

Same as college standards (see page 43-45).

PSYCHOLOGY

The science of psychology is defined as the study of behavior and mental processes. Psychology is an interdisciplinary science that includes the methods and knowledge derived from natural and other social sciences.

The psychology curriculum explores such topics as the behavior of individuals in groups; personality; human behavioral development from infancy through old age; mental disorders; sensory processes of vision and hearing; animal and human learning; thinking, memory and language; and brain and physiological mechanisms of behavior. In addition to standard lecture classes, course work includes laboratory experimentation and small-group seminars to encourage critical and creative thinking about psychology.

The curriculum enables students to develop a solid scientific background in psychology and prepares students for careers in teaching, business, public service, and research. It also provides the basics for entrance into graduate programs in experimental, clinical, and educational psychology; social work; law; and medicine.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	125 Nightingale
PHONE:	617-373-3076
DEPARTMENT CHAIR :	Stephen Harkins e-mail: valentine@neu.edu
HEAD ADVISOR:	Martin Block (summer/fall) e-mail: m.block@neu.edu Daniel Quinn (winter/spring) e-mail: d.quinn@neu.edu
EXPERIENTIAL EDUCATION ADVISOR:	Perrin Cohen e-mail: cohen@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	Stacey Livingstone Office: 125 Nightingale; Phone: 617-373-3456 e-mail: s.livingstone@neu.edu

TRANSFERRING TO THE MAJOR: Contact the Psychology Department
Freshmen and upperclass students transferring to Psychology must have a cumulative grade average of 2.0. Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR:
A minimum cumulative grade average of 2.0. Students who fail to meet this standard will be placed on departmental probation. Three consecutive academic quarters on departmental probation will result in dismissal from the major.

SOCIOLOGY

Sociology examines the social aspect of everything human beings do in the spheres of politics, economics, culture and scientific investigation. In the process, it develops theories of the social structural conditions of individual and group activity and models of cooperation. Students can choose to emphasize any of these areas, while also studying the many subfields within sociology itself, including sex roles and the family, work and leisure, race and ethnicity, multicultural realities, the news media, popular culture, urban problems, organizations and administration, law and criminality, the development and effects of new technologies, human services, education, and population and social change. Most of these subfields study different societies, including the United States, so that students acquire a multicultural and comparative perspective on social life.

Some graduates in sociology plan to teach in high school or college, while others go on to law or professional school or other careers. At the entry level, sociology graduates can qualify for jobs in most areas that require some knowledge of the effects of social structure on human behavior, but that do not require more technical knowledge than that covered in the methodology courses. Some of the typical areas open to sociology graduates are:

- human services and related health careers (e.g., work with the aging)
- business administration, organizational development, personnel, sales, business services
- federal and state government
- criminal justice
- consulting, lobbying, citizen advocacy
- education and educational services

Students should contact their sociology advisor for sample “specimen program” guidelines.

DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	500 Holmes
PHONE:	617373-2686
DEPARTMENT CHAIR:	Luis Falcon e-mail: l.falcon@neu.edu
HEAD AND EXPERIENTIAL EDUCATION ADVISOR:	TBA
CO-OPERATIVE EDUCATION COORDINATOR:	Melissa McDaniels Office: 579 Holmes Phone: 617-373-4773 e-mail: m.mcdaniels@neu.edu

TRANSFERRING TO THE MAJOR:

Students transferring during the freshman year must meet college standards. Students transferring after the freshman year must:

- (1) have completed three courses in sociology or anthropology with a grade of C- or better
- (2) have a cumulative grade average of at least 1.86

Acceptance into the major will be based on students meeting the department’s criteria for admission and availability of space in the programs.

PROGRESS IN THE MAJOR: Same as college standards (page 43-45).

THEATRE

All theatre students will be introduced to a diverse core of theatre classes and experiences which form the foundation for advanced study in one of the three concentrations: **theatre generalist, production, performance**. Admission to a concentration is by petition or audition.

The classroom and stages are viewed as laboratories where theory is tested in rehearsal and performance. Theatre majors are encouraged to express individual creative and interpretative impulses and, with support of a faculty advisor, are often able to perform a variety of projects of their own initiation in acting, directing, play writing, design, or performance art.

CONCENTRATIONS OFFERED:	theatre generalist production performance
DEGREES OFFERED:	B.A.; B.S.
DEPARTMENT LOCATION:	337 Ryder
PHONE:	617-373-2244
DEPARTMENT CHAIR, HEAD AND EXPERIENTIAL EDUCATION ADVISOR:	Janet Bobcean e-mail: j.bobcean@neu.edu
CO-OPERATIVE EDUCATION COORDINATOR:	Kate McLaughlin Office: 356 Ryder; Phone: 617-373-5811 e-mail: k.mclaughlin@neu.edu

TRANSFERRING TO THE MAJOR:

Same as college standards (pages 43-45). Acceptance into the major will be based on students meeting the department's criteria for admission and availability of space in the program.

PROGRESS IN THE MAJOR:

Students must maintain a 2.0 grade average in major courses. The following courses must be taken by the end of the fifth quarter (third quarter for transfer students): THE 1100, THE 1106, THE 1107, THE 1150, THE 1206, THE 1207, THE 1212, THE 1370, THE 1800, THE 1801, and THE 1802.

Failure to meet these standards will result in departmental probation. Three consecutive quarters on probation will result in dismissal from the major.