

## COOPERATIVE EDUCATION

[www.coop.neu.edu](http://www.coop.neu.edu)

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Cooperative education is a key component of a Northeastern University education. The cooperative education curricula leading to the baccalaureate degree generally require five years at Northeastern University. Programs typically consist of a freshman year of two consecutive semesters of full-time study followed by four upperclass years in which students alternate periods of classroom study with six-month cooperative education experiences. At graduation, students in the cooperative education program will have twelve to eighteen months of work experience. All of the colleges except the Bouvé College of Health Sciences also offer a four-year co-op option.

Cooperative education is based on the principle that what students learn in the workplace is a valuable complement to what they learn in the classroom. Studies show that reinforcing classroom learning with job responsibilities increases a student's motivation and self-confidence. Greater interest in academic work develops when students are able to see the link between the co-op experience and classroom study. The academic faculty and cooperative education coordinators have worked together to create Integrated Learning Models that reinforce and leverage the experiences that students have in the classroom and in the workplace.

Co-op students also have opportunities to evaluate career decisions early in their college years, while gaining meaningful work experience before graduation and establishing valuable professional contacts and references. Students also earn experiential learning credit by satisfactorily completing the required components of the cooperative education learning process, and the salaries students earn may help defray a portion of the cost of their education.

Responsibility for all phases of the co-op program rests with the cooperative education coordinators. In general, co-op experiences become increasingly challenging and career-specific as students continue their education and acquire greater

skills. With permission from their cooperative education coordinator, students may use their co-op period for study abroad or for volunteer work. See page 315 for course descriptions.

### International Cooperative Education

The international cooperative education group works with undergraduate students seeking direct co-op experience outside the United States, including home-country co-ops. The staff works with students to make sure that all foreign government requirements are met prior to the students' departure from the United States and also to maintain contact with students throughout their international experience. They work with both domestic and international employers to develop quality co-op experiences and to deliver services that are special and unique to undergraduate students working around the world.

### Co-op Eligibility Requirements

Every potential co-op student must meet the following eligibility requirements in order to participate in co-op. These are general requirements for all students; however, students must work closely with their cooperative education faculty coordinator to ensure that they meet any college- or unit-specific requirements and are aware of major-specific logistics, deadlines, and required paperwork.

- All students are required to take and pass a preparatory course before going out on co-op; this typically takes the form of COP U101 Professional Development for Co-op, but some colleges/majors have discipline-specific courses.
- All students must satisfactorily complete the requirements and deadlines set by both the Department of Cooperative Education and their specific co-op programs.
- Students must be registered for co-op, either through their division pattern or through a division change, which is initiated by the student and approved by the student's co-op coordinator and academic adviser(s).
- Students must have received a Satisfactory grade (S) and must have resolved any outstanding Incomplete (X) grades for previous co-ops. Students who have received an asterisk (\*) or an Unsatisfactory (U) grade must work with their individual coordinators to reestablish eligibility in accordance with the policies and requirements of their program.
- Students must resolve any previous disciplinary or academic probation issues, or have their coordinator approve a plan to resolve these issues, prior to being referred to co-op jobs.
- Students must have all co-op jobs approved by their coordinator prior to the start of employment.

In addition, some co-op employers require certain screenings prior to or during employment, including physical examinations, criminal background checks, security clearances, and drug testing. Failure to participate in, complete, or pass these types of qualifying screenings may impact the student's eligibility and/or opportunities for co-ops with special hiring requirements.

### Academic Requirements

All students must be making satisfactory academic progress toward their degree as defined by the University, their colleges, and the curricula in their major programs. (Please refer to the current *Undergraduate Catalog* for additional information.)

It normally is expected that students will have a cumulative 2.000 GPA to be eligible to go on co-op or a 2.750 GPA to be eligible for international co-op at the time they apply for a co-op position.

### Transfer Students

External transfer students must have met the same requirements in their major's co-op program as nontransfers to be eligible for co-op. Internal transfer students must have completed the requisite courses and requirements as defined by their major's current co-op programs.

### Cooperative Education Appeals Process

If a student does not meet the above requirements and/or the student's co-op faculty coordinator has determined he or she is ineligible to go on co-op for a desired session, the student may appeal to the Cooperative Education Standing Committee. (Certain programs may require an academic review as well.) Such appeals are treated on a case-by-case basis by a committee composed of cooperative education faculty, administration, and faculty from the relevant academic department. The Cooperative Education Standing Committee, upon hearing the student's appeal, will recommend an appropriate course of action. That recommendation is final and binding on all the parties.

## STUDY ABROAD

[www.casdn.neu.edu/sap](http://www.casdn.neu.edu/sap)

PATRICK PLUNKETT, PHD, *Executive Director of International Initiatives*

DAWN ANDERSON, MA, *Director of International Study Programs*

DAURI ROSENFELD MS, *Coordinator of International Study Programs*

Northeastern University strongly endorses international experience as an important dimension of learning. To foster this, it maintains an Office of International Study Programs that has developed a series of programs tailored to the interests and needs of Northeastern University students.

### International Study Programs

While studying abroad in a Northeastern-sponsored program, students maintain full-time Northeastern status and earn Northeastern credits. Upon successful completion of the program, grades are calculated into students' grade-point average (GPA) and students will have fulfilled the University's Diversity requirement. For the international affairs major, study abroad fulfills the international experience requirement. Students

may also fulfill additional requirements, depending upon their individual academic plan and approval by their adviser. The minimum requirements for participation by College of Arts and Sciences students are middler-year standing (at least 56 credits) and 3.000 GPA. The application deadlines are posted on the International Study Programs' Web site and program information sheets.

Students who wish to study abroad should start by researching program opportunities online at [www.casdn.neu.edu/sap](http://www.casdn.neu.edu/sap). Then attend an information session, offered regularly in 302 Ell. Finally, meet with a study-abroad adviser. Schedules for information sessions and advisers are posted online and in 302 Ell.

Northeastern University offers four types of study-abroad programs, although not all types are appropriate for some majors. Please see below for a complete list of current study-abroad locations.

**Traditional.** Students are based at a host institution where they attend classes, participate in student activities, and organize their extracurricular schedules just as they do on campus at Northeastern. Some examples include Monash University in Melbourne, Australia; University of Edinburgh in Scotland; and Obirin University in Tokyo, Japan.

**Faculty-Led Summer Programs.** Open to Northeastern University students of any major, the Dialogue of Civilizations Program is a series of “global student exchanges” between students at Northeastern University and students around the world. The goal of each program is (a) to connect NU students with their peers in different national, cultural, political, and social environments and (b) to provide NU students with a “global experience” that builds upon and enhances their academic studies and training in Boston.

**Internship.** These programs offer a combination of classes and related work experience for which students earn academic credit. For example, students typically intern with a member of the Australian Parliament in Canberra, the European Parliament in Brussels, the British Parliament in England, or the Irish Parliament in Dublin.

**Experiential Research.** The focus of the students' time abroad is on an independent research project. The study-abroad program organizes small group seminars and field trips that are designed to help students learn about their international environment and focus on a research topic. Students spend three to four weeks toward the end of the semester working on their individual projects. Students may study tropical biology in Costa Rica, history and culture in Vietnam, and oceanography while sailing in the Caribbean or Canadian Maritimes.

Following is a sample list of locations where students can study abroad:

<b>Argentina</b> , Buenos Aires	Universidad del Salvador
<b>Australia</b> , Canberra	Australia National University
<b>Australia</b> , Gold Coast	Bond University
<b>Australia</b> , Melbourne	Monash University
<b>Australia</b> , Perth	Curtin University
<b>Australia</b> , Sydney	University of Sydney
<b>Belgium</b> , Leuven	Irish Institute for European and Brussels Affairs
<b>Canada</b> , Vancouver	Simon Fraser University
<b>Caribbean/ Canadian Maritimes</b>	Woods Hole SEA Semester
<b>Chile</b> , Santiago	Pontificia Universidad Católica de Chile
<b>China</b> , Beijing	Beijing Foreign Studies University
<b>China</b> , Hong Kong	Chinese University of Hong Kong
<b>Costa Rica</b> , Monteverde	Monteverde Biological Research Station
<b>Costa Rica</b> , San Jose	International Center for Sustainable Human Development
<b>Czech Republic</b> , Prague	Charles University
<b>Dominican Republic</b> , Santiago	Pontificia Universidad Católica Madra y Maestra
<b>Dominican Republic</b> , Santo Domingo	Facultad Latinoamericana de Ciencias Sociales
<b>Egypt</b> , Cairo	American University of Cairo
<b>France</b> , Grenobles	Centre Universitaire d'Etudes Françaises (API)
<b>France</b> , Paris	American University of Paris
<b>Ghana</b> , Legon	University of Ghana
<b>Greece</b> , Thessaloniki	American College of Thessaloniki
<b>Ireland</b> , Dublin	Institute of Public Administration
<b>Italy</b> , Florence	Studio Art Centers International
<b>Italy</b> , Perugia	Umbra Institute
<b>Italy</b> , Rome	American Institute for Roman Culture
<b>Japan</b> , Tokyo	Obirin University
<b>Mexico</b> , Puebla	Universidad de las Americas– Puebla
<b>New Zealand</b> , Auckland	University of Auckland
<b>New Zealand</b> , Christchurch	University of Canterbury
<b>South Africa</b> , Cape Town	University of Cape Town
<b>Spain</b> , Alicante	University of Alicante
<b>Spain</b> , Seville	University of Seville
<b>UK: England</b> , Cambridge	University of Cambridge
<b>UK: England</b> , London	Goldsmith's College
<b>UK: England</b> , London	Hansard Society at London School of Economics

UK: Northern Ireland, Belfast Queens University  
 UK: Scotland, Edinburgh University of Edinburgh  
 Vietnam, Ho Chi Minh City School for International  
 Training

**Independent Study Abroad.** Students who choose to study abroad on a non-Northeastern program must apply individually to their school of choice, take an official leave of absence from Northeastern, and petition to have their credits transferred. It is required that students first meet with their student services office academic adviser for approval of their study-abroad program. It is the student services office adviser's responsibility to facilitate faculty evaluation for the award of transfer credit.

**UNIVERSITY HONORS PROGRAM**

[www.honors.neu.edu](http://www.honors.neu.edu)

The University offers to qualified students a comprehensive Honors Program designed to foster intellectual development and achievement. The program provides numerous academic course options and liaison programs with other campus departments. Entering freshmen are invited to join based on a combination of their high school academic preparation, SAT/ACT scores, and leadership record. Students are also eligible to join as second-semester freshmen or first-semester sophomores with a 3.400 or better cumulative average. Juniors and seniors may join if they have a faculty member prepared to sponsor their Junior/Senior Honors Project.

The program provides a rich academic experience for students. At the first-year and sophomore levels, selected honors sections are available in place of larger introductory courses. In honors sections, course material is covered more intensively or differently in smaller classes. Honors seminars are offered to sophomores and middlers. These seminars are designed specifically for honors students. Juniors and seniors complete an honors project that typically involves an independent research project or a set of courses designed for upperclass honors students.

Honors students may earn up to three Honors Program distinctions, including Honors Course Distinction, College Honors Project Distinction, and University Honors Program Distinction.

The program offers subsidized cultural opportunities, including theatre, ballet, and sporting events. The honors experience also includes special housing opportunities in Kennedy Hall for first-year students and some apartment-style housing in West Village C for upperclass students. The Honors Program office in 1 Nightingale Hall includes a computer room and lounge.

For more information about the Honors Program curriculum and events, please consult the Web site at [www.honors.neu.edu](http://www.honors.neu.edu) or call the Honors office at 617.373.2333.

**ROTC, MILITARY OFFICERS' TRAINING PROGRAM**

[www.rotc.neu.edu](http://www.rotc.neu.edu)

The Department of Military Science offers the Army Reserve Officers' Training Corps (ROTC) program. The goal of the program is to develop leadership potential in men and women and to prepare them for an officer's commission in the Active Army, Army Reserve, or Army National Guard. The curriculum teaches principles of leadership and personnel management and seeks to develop leadership traits such as teamwork, responsibility, initiative, self-confidence, and discipline.

**Army ROTC Program**

JOHN C. MCCLELLAN JR., LTC, MPA, *Professor and Chair,*  
*Department of Military Science*

**ASSISTANT PROFESSORS**

- Debra A. Bowker, MAJ, MS
- Malcolm S. Burr, LTC, BS
- Matthew P. Mercadante, CPT, BS
- Ben A. Randazzo, CPT, BA
- Brett P. Tashiro, CPT, MS
- John D. Williamson, MAJ, MBA

**INSTRUCTORS**

- Ted V. Carlin, BS, MSG
- Jeremy P. Wentworth, SFC (P)

The Army ROTC program is conducted at Northeastern University. For more information, write the Department of Military Science, Northeastern University, 335A Huntington Avenue, Boston, MA 02115, or call 617.373.2372.

Completion of the Army ROTC program will lead to a commission as a second lieutenant in the United States Army, Army Reserve, or the Army National Guard. The program consists of the basic course (freshman and sophomore years) and advanced course (middler through senior years). The program does not conflict with co-op schedules.

Enrollment in the basic course is voluntary and is open to all full-time students. However, only cadets formally enrolled in ROTC may participate in leadership labs, physical training, and practical field exercises. Students in the basic course do not incur a military obligation. Check with your academic department to ensure credits are accepted.

The advanced course is open to all qualified students who have basic course credit or equivalent military experience, as well as meet the Army's physical, medical, and age requirements. Contracted students (advance course and scholarship) receive a monthly cash stipend while in school. Scholarship students also receive full tuition and fees as well as \$900 per year for books. Scholarships are merit based and are awarded as four-year, three-year, or two-year benefit packages.

In addition to ROTC classes, students have the opportunity to achieve an academic minor in leadership. See "Leadership Studies" on page 41.

### Army Nurse Corps ROTC Program

ROTC provides an opportunity for college nursing students to receive practical, hands-on leadership experience. The courses provide a chance for students to develop management, communication, and decision-making skills. ROTC also provides nursing cadets an opportunity to participate in the Nurse Summer Training Program (NSTP). NSTP is a paid, three-to-four-week, “hands on” clinical elective for Army ROTC nurse cadets. This elective is conducted at more than twenty Army hospitals in the continental United States, Hawaii, and Germany. During the NSTP clinical elective, you receive experience under the direct supervision of a preceptor—an Army Nurse Corps officer who works with the cadet one-on-one. Scholarship nurse cadets receive a monthly cash stipend while in school as well as full tuition and fees and \$900 per year for books.

### Navy ROTC Program

The Boston Navy ROTC unit is a six-school consortium that includes students from Boston University, Boston College, Northeastern, Tufts, Harvard, and MIT. All Navy nursing scholarships cover full tuition, mandatory fees, a \$375 per semester book stipend, and a \$250 per month living stipend that increases by \$50 each year. For students on Northeastern’s five-year program, the Navy grants “Fifth Year Benefits,” which mirror those of the fourth year. Upon graduation, there is a four-year active duty commitment.

NROTC nursing students are required to take four naval science classes, in addition to their regular course work, and attend a leadership laboratory once a week. All classes, labs, and group workouts are conducted at Boston University. Students typically spend a total of six to eight hours per week participating in NROTC-related activities. Additionally, Navy nurses complete two summer cruises, or training sessions, prior to graduation, each of which lasts approximately four weeks. They spend one session with a medical unit at sea (on a Navy ship) and one session at a land-based Navy hospital. All lodging, transportation, meals, and uniforms are paid for by the Navy during summer training sessions. For more information, contact Lt. Jessica Baker at 617.353.4232 or jlb@bu.edu.

### Air Force ROTC Program

Air Force ROTC is an educational and leadership program designed to give men and women the opportunity to become an Air Force officer while completing a bachelor’s or master’s degree. The Air Force ROTC program prepares students to assume positions of increasing responsibility and importance in the Air Force.

Through a cross-enrolled program with Boston University, interested Northeastern University students may participate in the Air Force Reserve Officer Training Corps Program. The requirements include yearly aerospace studies classes, leadership laboratory classes, and physical fitness training. The mandatory weekly commitments range from five to seven hours per week. Once students complete their degree, the Air Force offers a wide variety of career fields from which

to choose. There is a wealth of opportunity to fly as a pilot, navigator, or weapons controller. In addition, we have opportunities for students of any major.

In addition to the tremendous leadership and management training that cadets receive, they also benefit from several scholarship programs. *High school seniors* can apply for four- and three-year scholarships plus fees. The scholarships range from full tuition, \$15,000 per year, and \$9,000 per year. Scholarship winners will also receive a \$250 to \$400 stipend per month, a \$600 book allowance, and uniforms. Applications for scholarships are due by December 1 of senior year.

*Freshmen and sophomores already in college* can compete for two-, three-, and three and a half-year scholarships, some of which cover full tuition, while others cover \$15,000 per academic year. All scholarship winners will receive a \$250 to \$400 stipend per month, a \$600 book allowance, and uniforms.

However, students do not need a scholarship to join ROTC. Meeting physical fitness, medical qualifications, and the Air Force Officer Qualifying Test requirements are the necessary requirements to join ROTC.

## UNIVERSITY-WIDE WRITING REQUIREMENT

The faculty expects all students to become effective writers. To this end, students are given opportunities to improve their writing at two crucial stages: in the first year, as students make the transition from high school to college and face the demands of academic writing; and later, as students gain experience in the specific knowledge and language practices of their majors. Thus, two writing courses are required of all full-time undergraduate students: College Writing (or a two-course equivalent) and Advanced Writing in the Disciplines. Students must earn a C or better in required writing courses to satisfy the requirement.

### First-Year Writing Requirement

All first-year students must satisfy a first-year writing requirement. Students take a placement exam on the first day of classes or may take an exam online before classes begin (<http://www.english.neu.edu/writingprograms/placement/>). Depending on the results of the placement exam, students may satisfy the requirement in one of the following ways:

- ENG U111, College Writing
- ENG U110, Introductory College Writing, *plus* ENG U111
- ENG U101, Introductory Writing for Speakers of Other Languages, *plus* ENG U102, College Writing for Speakers of Other Languages

On occasion, depending on performance in ENG U102 or ENG U110, the second half of the two-course sequence may be waived, as determined by the Department of English.

*Note:* ENG U101 and ENG U110 are not credited toward graduation in the College of Engineering.

## Advanced Writing Requirement

Once students have earned 56 semester hours of academic credit, they are expected to register for the second half of the University-wide requirement: Advanced Writing in the Disciplines (AWD). Students are encouraged to take AWD before they have accrued 96 semester hours. A variety of AWD courses are offered, and different courses satisfy the requirement for students in different colleges. In consultation with their adviser, students should choose the AWD course that best fits their needs from among the available options. (AWD sections for non-native speakers of English and international students are available.) Transfer credit cannot be used to satisfy this requirement.

Please see the Writing Programs site for more details: [www.english.neu.edu/writingprograms/](http://www.english.neu.edu/writingprograms/).

## DIVERSITY REQUIREMENT

Northeastern University requires that all students complete a diversity requirement before graduation. The requirement may be fulfilled by completing a preapproved course or by participation in an activity such as international co-op, study abroad, or diversity training. Each college has developed its own program to satisfy this requirement, so please consult your college requirements for more details.

## THE ACADEMIC COMMON EXPERIENCE

In June 1995, Northeastern University adopted the Academic Common Experience (ACE), a new general education model for all undergraduate programs. In ACE, the faculty identified a set of shared general education goals for all students in all majors. The ACE shared goals are:

- **Skills:** Effective thinking, effective communication, information literacy, and interpersonal skills.
- **Contexts:** The natural world, and the social/cultural world.
- **Perspectives:** The historical, the ethical, the aesthetic, and the personal.
- **Connections:** Across disciplines, between the theoretical and the applied, between the academy and the world of work, and between college study and lifelong learning.

The Northeastern faculty, administrators, and students who worked together to create ACE believe that the best education instills a spirit of inquiry, a love of learning, and a habit of reflective thought. It prepares students for the future by enabling them to build on the knowledge they have already acquired. It also helps develop skills and understanding that can be transferred from one academic discipline to another and from the classroom to life experiences.

Course content and course assignments throughout the program of study reflect these shared goals. As students progress through their individual academic and cooperative

education programs, progressive and cumulative learning reinforces and broadens understanding and appreciation of these goals, both personally and professionally.

## ABOUT SAMPLE CURRICULA

The University's official repository of curricular information is the Degree Audit Reporting System. The curricula published on the following pages are derived from the Degree Audit Reporting System. In case of discrepancy, the Degree Audit Reporting System shall take precedence. Consult with your academic advising office, listed below, to make certain you have all the necessary resources before planning your own curriculum.

<b>College of Arts and Sciences, Dean's Office</b>	100 Meserve
<b>Academic Program Offices</b>	
African-American Studies	132 Nightingale
American Sign Language– English Interpreting	405 Meserve
Architecture	151 Ryder
Behavioral Neuroscience	125 Nightingale
Biochemistry	134 Mugar
Biology	134 Mugar
Chemistry and Chemical Biology	102 Hurtig
Cinema Studies	225 Holmes
Communication Studies	101 Lake
Earth and Environmental Sciences	14 Holmes
Economics	301 Lake
Education	26 Nightingale
English	406 Holmes
Environmental Studies	14 Holmes
History	249 Meserve
Human Services	587 Holmes
Interdisciplinary Studies	9 Holmes
International Affairs	315 Meserve
Journalism	102 Lake
Linguistics	563 Holmes
Mathematics	567 Lake
Modern Languages	400 Meserve
<b>Multimedia Studies</b>	
Music concentrations	351 Ryder
Visual arts concentrations	239 Ryder
Music	351 Ryder
Philosophy and Religion	373 Holmes
Physics/Applied Physics/ Biomedical Physics	111 Dana
Political Science	301 Meserve
Psychology	125 Nightingale
Sociology and Anthropology	500 Holmes
Theatre	180 Ryder
Visual Arts	239 Ryder
<b>Bouvé College of Health Sciences</b>	120 Behrakis
<b>College of Business Administration</b>	250 Dodge
<b>College of Computer and Information Science</b>	202 West Village H

College of Criminal Justice	204 Churchill
College of Engineering	220 Snell
School of Engineering Technology	120 Snell
School of General Studies	50 Nightingale
School of Technological Entrepreneurship	416 Columbus Place

### Special Notes

- One semester-hour of credit is equal to fifty minutes of instruction per week, plus two hours of preparation.
- The Office of the Registrar, 120 Hayden Hall, maintains the official record for all courses. In the event of error in any publication, the academic record will reflect the correct semester-hours applicable to any degree requirement.
- On occasion, course titles change, while the course number remains the same. Despite such title changes, the course is still considered to be the same course. Students who have taken the course under the old title and then take the course again under the new title are considered to have repeated the course.

### UNDERGRADUATE COURSE NUMBERING SYSTEM

Every semester course number at Northeastern University consists of three parts:

- A two- or three-letter department code
- A single-letter code, most commonly U indicating an undergraduate course or G indicating a graduate course
- A three-digit number

For example, in the course number ECN U115, ECN is the department code, U indicates an undergraduate course, and 115 is the three-digit number.

For undergraduate courses, the three-digit number indicates the level of the course as follows:

001–099	Basic/preparatory
100–299	Introductory
300–499	Intermediate
500–699	Advanced
700–799	Research, thesis, capstone
900–999	Special course work (directed study, independent study, special topics, seminar, workshop, or practicum)

### UNDERGRADUATE DEGREES

Listed below are the degrees conferred by the undergraduate full-time day colleges at Northeastern University.

#### College of Arts and Sciences

Bachelor of Arts  
Bachelor of Science

#### Bouvé College of Health Sciences

Bachelor of Science  
Bachelor of Science in Athletic Training  
Bachelor of Science in Nursing  
Bachelor of Science in Rehabilitation Science  
Doctor of Pharmacy (six-year program)  
Doctor of Physical Therapy (six-year program)

#### College of Business Administration

Bachelor of Science in Business Administration  
Bachelor of Science in International Business

#### College of Computer and Information Science

Bachelor of Arts in Computer Science  
Bachelor of Science in Computer Science  
Bachelor of Science in Information Science  
Bachelor of Science (dual majors only)

#### College of Criminal Justice

Bachelor of Science

#### College of Engineering

Bachelor of Science in Chemical Engineering  
Bachelor of Science in Civil Engineering  
Bachelor of Science in Computer Engineering  
Bachelor of Science in Electrical Engineering  
Bachelor of Science in Industrial Engineering  
Bachelor of Science in Mechanical Engineering

#### School of Engineering Technology

Bachelor of Science in Engineering Technology

### MAJORS AND CONCENTRATIONS

Listed below are the majors and, where applicable, concentrations offered by the undergraduate full-time day colleges at Northeastern University. In some cases, the academic area under which the major is listed in this catalog is indicated parenthetically.

#### College of Arts and Sciences

African-American Studies  
American Sign Language  
Anthropology, Cultural (*listed under* Sociology and Anthropology)  
Applied Physics (*listed under* Physics)  
Architecture  
Art (*listed under* Visual Arts)  
    Concentration in Animation  
    Concentration in Photography  
Behavioral Neuroscience  
Biochemistry  
Biology  
    Concentration in Marine Biology

Biomedical Physics (*listed under* Physics)  
 Chemistry  
 Communication Studies  
   Concentration in Media Studies  
   Concentration in Organizational Communication  
   Concentration in Public Communication  
 Cultural Anthropology (*listed under* Sociology and Anthropology)  
 Earth Science (*listed under* Earth and Environmental Sciences)  
 Economics  
 English  
 Environmental Geology (*listed under* Earth and Environmental Sciences)  
 Environmental Studies (*listed under* Earth and Environmental Sciences)  
 French (*listed under* Modern Languages)  
 Geology (*listed under* Earth and Environmental Sciences)  
 Graphic Design (*listed under* Visual Arts)  
 History  
   Concentration in Public History  
 Human Services  
 International Affairs  
 Journalism  
 Languages, French (*listed under* Modern Languages)  
 Languages, Spanish (*listed under* Modern Languages)  
 Linguistics  
 Mathematics  
 Multimedia Studies  
   Concentration in Animation  
   Concentration in Graphic Design  
   Concentration in Music Technology  
   Concentration in Photography  
 Music  
   Concentration in History and Analysis  
   Concentration in Music Industry  
   Concentration in Music Technology  
 Philosophy (*listed under* Philosophy and Religion)  
   Concentration in Law and Ethics  
   Concentration in Religious Studies  
 Physics  
 Physics, Applied (*listed under* Physics)  
 Physics, Biomedical (*listed under* Physics)  
 Political Science  
   Concentration in International and Comparative Politics  
   Concentration in Law and Legal Issues  
   Concentration in Public Policy and Administration  
 Psychology  
 Sociology (*listed under* Sociology and Anthropology)  
 Spanish (*listed under* Modern Languages)  
 Theatre  
   Concentration in Performance  
   Concentration in Production

## Dual Majors

American Sign Language and Human Services (*listed under* American Sign Language)  
 American Sign Language and Psychology (*listed under* American Sign Language)  
 American Sign Language and Theatre (*listed under* American Sign Language)  
 Biology and Geology (*listed under* Biology)  
 Biology and Environmental Geology (*listed under* Biology)  
 Cinema Studies and Communication Studies (*listed under* Cinema Studies)  
 Cinema Studies and English (*listed under* Cinema Studies)  
 Cinema Studies and Journalism (*listed under* Cinema Studies)  
 Cinema Studies and Modern Languages (*listed under* Cinema Studies)  
 Cinema Studies and Philosophy (*listed under* Cinema Studies)  
 Cinema Studies and Theatre (*listed under* Cinema Studies)  
 Computer Science and Biology (*listed under* Computer and Information Science)  
 Computer Science and Cognitive Psychology (*listed under* Computer and Information Science)  
 Computer Science and Mathematics (*listed under* Computer and Information Science)  
 Computer Science and Multimedia Studies (*listed under* Computer and Information Science)  
 Computer Science and Music with Concentration in Music Technology (*listed under* Computer and Information Science)  
 Computer Science and Physics (*listed under* Computer and Information Science)  
 Electrical Engineering and Physics (*listed under* Electrical and Computer Engineering)  
 Environmental Geology and Chemistry (*listed under* Earth and Environmental Sciences)  
 Environmental Geology and Environmental Studies (*listed under* Earth and Environmental Sciences)  
 Environmental Geology and Mathematics (*listed under* Earth and Environmental Sciences)  
 Environmental Geology and Physics (*listed under* Earth and Environmental Sciences)  
 Geology and Chemistry (*listed under* Earth and Environmental Sciences)  
 Geology and Mathematics (*listed under* Earth and Environmental Sciences)  
 Geology and Physics (*listed under* Earth and Environmental Sciences)  
 Human Services and International Affairs (*listed under* Human Services)  
 Information Science and Cognitive Psychology (*listed under* Computer and Information Science)  
 Linguistics and English (*listed under* Linguistics)  
 Linguistics and Psychology (*listed under* Linguistics)  
 Mathematics and Physics (*listed under* Mathematics)  
 Modern Languages and International Affairs (*listed under* Modern Languages)  
 Physics and Philosophy (*listed under* Physics)

**Bouvé College of Health Sciences**

Athletic Training  
 Health Science  
 Nursing  
 Pharmacy  
 Physical Therapy  
 Speech-Language Pathology and Audiology

**College of Business Administration****Concentrations**

Accounting  
 Entrepreneurship and New Venture Management  
 Finance  
 Human Resources Management  
 International Business (BSIB only)  
 Management  
 Management Information Systems  
 Marketing  
 Supply Chain Management

**Dual Majors**

Computer Science and Business Administration (*listed under* Computer and Information Science)  
 Information Science and Business Administration (*listed under* Computer and Information Science)

**College of Computer and Information Science**

Computer Science  
 Information Science

**Dual Majors**

Computer Science and Biology (*listed under* Computer and Information Science)  
 Computer Science and Business Administration (*listed under* Computer and Information Science)  
 Computer Science and Cognitive Psychology (*listed under* Computer and Information Science)  
 Computer Science and Information Science (*listed under* Computer and Information Science)  
 Computer Science and Mathematics (*listed under* Computer and Information Science)  
 Computer Science and Multimedia Studies (*listed under* Computer and Information Science)  
 Computer Science and Music with Concentration in Music Technology (*listed under* Computer and Information Science)  
 Computer Science and Physics (*listed under* Computer and Information Science)  
 Information Science and Business Administration (*listed under* Computer and Information Science)  
 Information Science and Cognitive Psychology (*listed under* Computer and Information Science)

**College of Criminal Justice**

Criminal Justice

**College of Engineering**

Chemical Engineering  
 Civil Engineering (*listed under* Civil and Environmental Engineering)  
 Computer Engineering (*listed under* Electrical and Computer Engineering)  
 Electrical Engineering (*listed under* Electrical and Computer Engineering)  
 Electrical/Computer Engineering (*listed under* Electrical and Computer Engineering)  
 Industrial Engineering (*listed under* Mechanical and Industrial Engineering)  
 Mechanical Engineering (*listed under* Mechanical and Industrial Engineering)

**Dual Major**

Electrical Engineering and Physics (*listed under* Electrical and Computer Engineering)

**School of Engineering Technology**

Computer Engineering Technology  
 Electrical Engineering Technology  
 Mechanical Engineering Technology

**MINORS**

Listed below are the minors offered by the undergraduate full-time day colleges at Northeastern University. In some cases, the academic area under which the minor is listed in this catalog is indicated parenthetically.

**College of Arts and Sciences**

African-American Studies  
 Animation (*listed under* Visual Arts)  
 Anthropology, Cultural (*listed under* Sociology and Anthropology)  
 Architectural History (*listed under* Architecture)  
 Art (*listed under* Visual Arts)  
 Biology  
 Biology, Marine (*listed under* Biology)  
 Chemistry  
 Cinema Studies  
 Communication Studies  
 Cultural Anthropology (*listed under* Sociology and Anthropology)  
 East Asian Studies (*listed under* Interdisciplinary Minors)  
 Economics  
 Education, Elementary (*listed under* Education)  
 Education, Secondary (*listed under* Education)  
 Elementary Education (*listed under* Education)  
 English Literature (*listed under* English)  
 English Writing (*listed under* English)  
 Environmental Geology (*listed under* Earth and Environmental Sciences)

Environmental Science (*listed under* Earth and Environmental Sciences)

Environmental Studies (*listed under* Earth and Environmental Sciences)

Ethnomusicology (*listed under* Music)

French (*listed under* Modern Languages)

Geology (*listed under* Earth and Environmental Sciences)

Graphic Design (*listed under* Visual Arts)

History

Human Services

International Affairs

Jewish Studies (*listed under* Interdisciplinary Minors)

Journalism

Languages, French (*listed under* Modern Languages)

Languages, Spanish (*listed under* Modern Languages)

Latino, Latin American, and Caribbean Studies (*listed under* Interdisciplinary Minors)

Law, Policy, and Society (*listed under* Interdisciplinary Minors)

Leadership Studies (*listed under* Interdisciplinary Minors)

Linguistics

Literature, English (*listed under* English)

Marine Biology (*listed under* Biology)

Marine Studies (*listed under* Interdisciplinary Minors)

Mathematics

Middle East Studies (*listed under* Interdisciplinary Minors)

Music

Music Industry (*listed under* Music)

Music Performance (*listed under* Music, *music majors only*)

Music Theatre (*listed under* Music)

Philosophy (*listed under* Philosophy and Religion)

Photography (*listed under* Visual Arts)

Physics

Political Science

Psychology

Religious Studies (*listed under* Philosophy and Religion)

Secondary Education (*listed under* Education)

Sociology (*listed under* Sociology and Anthropology)

Spanish (*listed under* Modern Languages)

Technical Communication (*listed under* English)

Theatre

Urban Studies (*listed under* Interdisciplinary Minors)

Women's Studies (*listed under* Interdisciplinary Minors)

Writing, English (*listed under* English)

### **Bouvé College of Health Sciences**

Early Intervention (*listed under* Speech-Language Pathology and Audiology)

Exercise Physiology (*listed under* Health Sciences)

Health Science

Toxicology

### **College of Business Administration**

Business Administration

### **College of Computer and Information Science**

Computer Science

Information Science

### **College of Criminal Justice**

Criminal Justice

### **College of Engineering**

Biochemical Engineering (*listed under* Chemical Engineering)

Biomechanical Engineering (*listed under* Mechanical and Industrial Engineering)

Biomedical Engineering (*listed under* Electrical and Computer Engineering)

Computer Engineering (*listed under* Electrical and Computer Engineering)

Electrical Engineering (*listed under* Electrical and Computer Engineering)

Industrial Engineering (*listed under* Mechanical and Industrial Engineering)

Materials Science and Engineering (*listed under* Interdisciplinary Minor)

Mechanical Engineering (*listed under* Mechanical and Industrial Engineering)

### **School of Engineering Technology**

Computer Engineering Technology

Electrical Engineering Technology

Mechanical Engineering Technology

### **School of Technological Entrepreneurship**

Technological Entrepreneurship