

## 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 faculty. 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, for volunteer work, or to take specialized courses at another institution.

## International Cooperative Education

The Department of International Cooperative Education offers a variety of services to international students as well as to U.S. citizens. Through the International Exchange Program, undergraduates may be placed abroad for their cooperative work experience. Placements are available in Europe, Australia and New Zealand, and Israel for students who have the appropriate background and experience.

In addition, the department helps to prepare international students for co-op placements in the United States and in their home country.

## Co-op Policies

Co-op start and end dates and college-specific policies may be found in the *Co-op Handbook*. Listed here are general policies regarding participation in the cooperative education program.

- Students must maintain the GPA required by their college to qualify for co-op. Students with deficiencies in course work or GPA should arrange a remedial schedule with their academic adviser and co-op faculty member. They will not be permitted to have a co-op placement until the deficiencies have been eliminated.
- Students must register for co-op just as they register for academic classes. Students register for eight semester hours of experiential learning credit for fall or spring semester and four semester hours of experiential learning credit for each summer half semester.
- Students earn grades of Satisfactory (S), Unsatisfactory (U), or Incomplete (X). Although experiential learning credit is not added to the academic credit hours required for graduation, students' transcripts reflect their grades for each co-op placement.
- Students do not pay tuition for co-op.
- Students who are not registered for co-op or for academic course work will be withdrawn from the University. Withdrawal may affect eligibility for financial aid and, for international students, visa status.

## HONORS PROGRAM

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

The University offers to qualified students a comprehensive Honors Program designed to foster high intellectual development and achievement. The program provides numerous academic course options as well as cultural events for students from all colleges at the University. Entering freshmen are invited to join the program based on their high school record and academic preparation, and current students are eligible to join as second-semester freshmen, first-semester sophomores, and juniors and seniors when they have a cumulative 3.400 grade-point average.

The program provides a rich academic experience for students. At the freshman and sophomore levels, selected

honors sections are available in place of larger introductory courses. In honors sections, course material is covered more intensively in a classroom setting with fewer students and greater opportunities for student-faculty interaction. At the sophomore and middler levels, special honors seminars are designed specifically for honors students. These seminars focus on contemporary issues as well as topics related to the University's mission as a place of scholarship and inquiry in an urban setting. Honors students also may enroll in an honors adjunct attached to an existing nonhonors course. In an honors adjunct, students and the professor meet outside of class to engage in additional discussions and projects to explore course work in greater depth. And finally, honors students complete a junior/senior honors project as a culminating experience in their academic field. The junior/senior honors project typically involves an independent research project or a set of courses designed for upperclass honors students.

Honors students may earn one of three Honors Program distinctions. Honors course distinction is earned after completion of six honors courses in the semester system, including one honors seminar. College honors project distinction is earned after completion of the junior/senior honors project. University Honors Program distinction is earned after completing requirements for both of the previous distinctions. These distinctions appear on a student's transcript and in the commencement program.

The program offers cultural opportunities, including theatre, ballet, symphony, and sporting events tickets, at subsidized prices. The honors experience at Northeastern also includes special housing opportunities and facilities for study and interaction with other honors students. Honors residence halls are available for freshmen and upperclass students. The current freshmen hall includes a computer lab and study rooms as well as special activities. The Honors Program office, 1 Nightingale Hall, also offers a lounge and computer room for honors students who live on or off campus.

For more information about the Honors Program, including up-to-date listings of honors courses, please consult the program's Web site at [www.honors.neu.edu](http://www.honors.neu.edu) or contact the staff 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 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 military service of the United States. The curriculum teaches principles of personnel management and seeks to develop leadership traits such as teamwork, ready acceptance of responsibility, desire to achieve, self-confidence, and discipline.

## Army ROTC Program

DAVID C. NADEAU, LTC, MS

*Professor and Chair, Department of Military Science*

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### INSTRUCTORS

Ted V. Carlin, MSG

Brian J. Mullin, MSG

Brenda Marrero, MSG

James L. Zadra, SFC

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 may lead to a commission as a second lieutenant in the United States Army, United States Army Reserve, or the Army National Guard. The program consists of the basic course (freshman and sophomore years) and advanced (middles through senior years) course. 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 formally enrolled cadets may participate in leadership labs and other exercises. Students in the basic course do not incur a military obligation.

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 \$17,000 and an additional grant of 20 percent tuition per year, as well as \$600 for books. Scholarships are merit based.

## Air Force and Navy Nurse ROTC Programs

The Air Force and Navy Nurse ROTC programs are conducted at Boston University.

For more information about the Air Force ROTC program, write the Department of Aerospace Studies, Boston University, 118 Bay State Road, Boston, MA 02215-1501, or call 617.353.4705.

For more information about the Navy ROTC Nurse program, write the Office of the Commanding Officer, NROTC Unit, Boston University, 116 Bay State Road, Boston, MA 02215-1796, or call 617.353.2535.

## UNIVERSITY-WIDE WRITING REQUIREMENT

The faculty expect all students to become effective writers in their disciplines. To help ensure this, two writing courses are required of all full-time undergraduate students: College Writing and Advanced Writing in the Disciplines.

All freshmen take College Writing, ENG U111. Students whose first language is not English may be placed into Introductory Writing–SOL, ENG U101, and must also complete College Writing–SOL, ENG U102, to satisfy the requirement. Students must earn a grade of C or better in College Writing to satisfy the requirement.

Once students have earned 64 semester hours of academic credit, they are expected to register for the second half of the University-wide writing requirement: Advanced Writing in the Disciplines. Students are encouraged to complete this requirement before they have accrued 96 semester hours. They must earn a C or better in this course to satisfy the requirement. Transfer credit cannot be used to satisfy this requirement.

## 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 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

Each major description includes a sample of the curriculum a student might follow to meet degree requirements. These sample curricula are for general information. Course requirements, elective course distribution, and achievement levels vary from program to program, and even from class to class. 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
Academic Program Offices	
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	54 Lake
English	406 Holmes
Environmental Studies	14 Holmes
History	249 Meserve
Human Services	587 Holmes
Interdisciplinary Studies	9 Holmes
International Affairs	303 Meserve
Journalism	102 Lake
Linguistics	563 Holmes
Mathematics	567 Lake
Modern Languages	400 Meserve
Multimedia Studies	
Music concentrations	351 Ryder
Visual arts concentrations	239 Ryder
Music	351 Ryder
Philosophy and Religion	371 Holmes
Physics/Applied Physics/ Biomedical Physics	111 Dana
Political Science	303 Meserve
Psychology	125 Nightingale
Sociology and Anthropology	500 Holmes
Theatre	337 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
<b>College of Criminal Justice</b>	204 Churchill
<b>College of Engineering</b>	220 Snell
<b>School of Engineering Technology</b>	120 Snell
<b>School of General Studies</b>	250 Ryder

## 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 Nursing  
Bachelor of Science in Rehabilitation Science  
Doctor of Pharmacy (six-year program)  
Doctor of Physical Therapy (six-year program;  
pending Trustees' approval)

### 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  
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)  
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 Literature  
    Concentration in Literature and Performance  
    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**

- 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 Theatre (*listed under* Cinema Studies)
- Computer Science and Cognitive Psychology (*listed under* Computer Science)
- Computer Science and Mathematics (*listed under* Computer Science)
- Computer Science and Physics (*listed under* Computer Science)
- Linguistics and English (*listed under* Linguistics)
- Linguistics and Psychology (*listed under* Linguistics)

**Bouvé College of Health Sciences**

- Athletic Training
- Cardiopulmonary and Exercise Sciences
  - Concentration in Exercise Physiology
  - Concentration in Respiratory Therapy
- Clinical Exercise Physiology (*listed under* Cardiopulmonary and Exercise Sciences)
- Health Science (pending Trustees' approval)
- Medical Laboratory Science
- Physical Therapy
- Speech-Language Pathology and Audiology
- Nursing
- Pharmacy

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

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

**College of Computer and Information Science**

- Computer Science
- Information Science

**Dual Majors**

- Computer Science and Cognitive Psychology (*listed under* Computer Science)
- Computer Science and Mathematics (*listed under* Computer Science)
- Computer Science and Physics (*listed under* Computer 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)

**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 Sciences (*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)

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 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 Communications (*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**

Hematology (*listed under* Medical Laboratory Science)

Immunoematology (*listed under* Medical Laboratory Science)

Immunology (*listed under* Medical Laboratory Science)

Medical Laboratory Chemistry (*listed under* Medical Laboratory Science)

Microbiology (*listed under* Medical Laboratory 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**

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)

### **School of Engineering Technology**

Computer Engineering Technology

Electrical Engineering Technology

Mechanical Engineering Technology